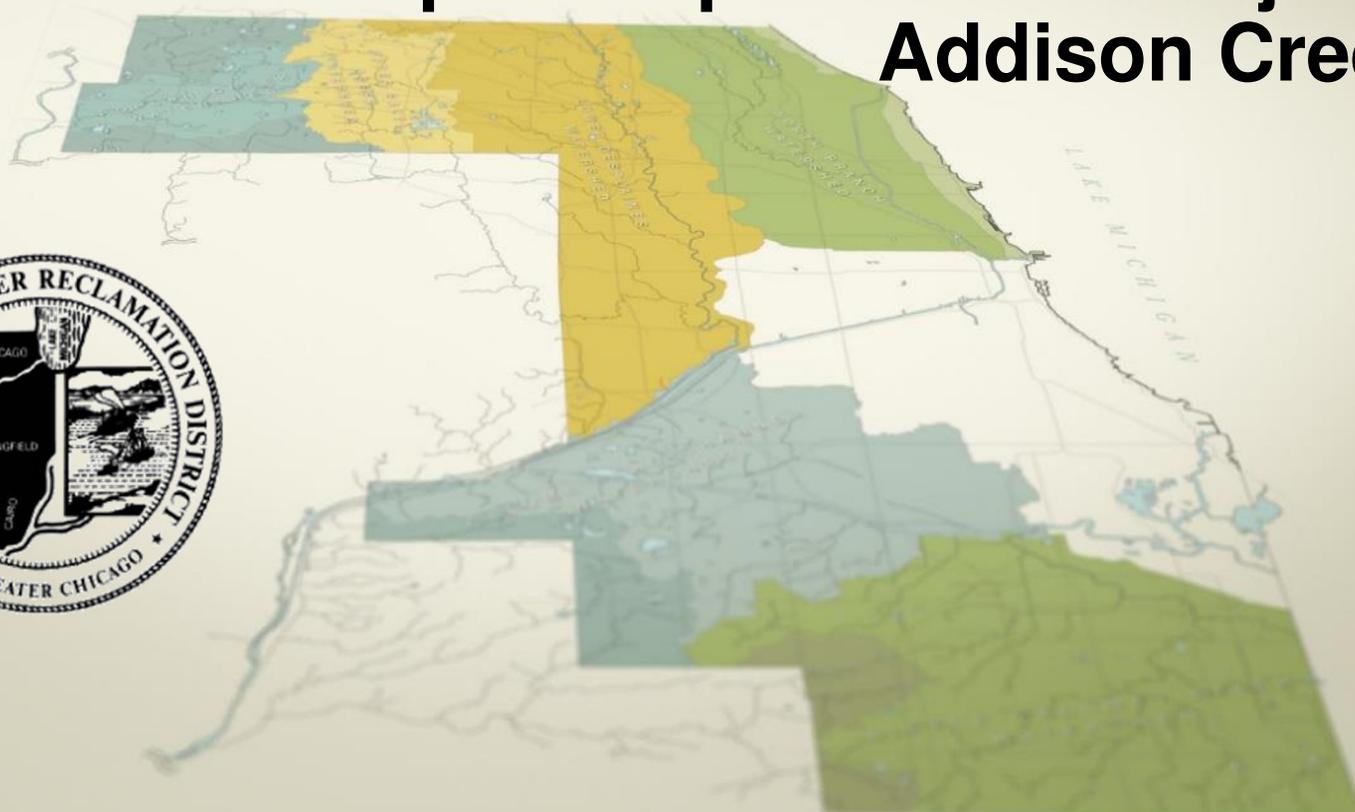


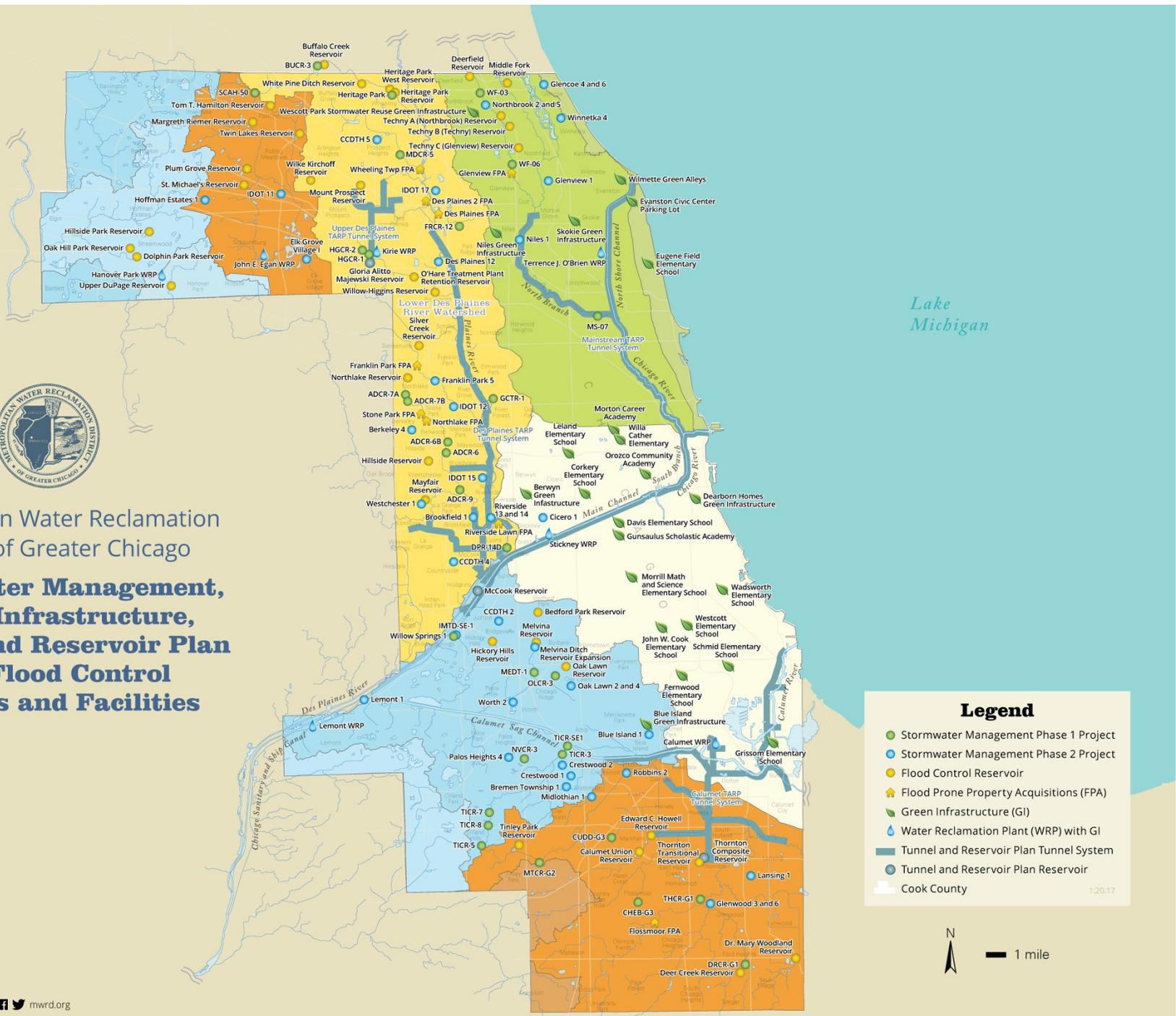
Stormwater Management Capital Improvement Projects Addison Creek



Westchester
April 19, 2017



Metropolitan Water Reclamation
District of Greater Chicago
**Stormwater Management,
Green Infrastructure,
Tunnel and Reservoir Plan
and Flood Control
Projects and Facilities**

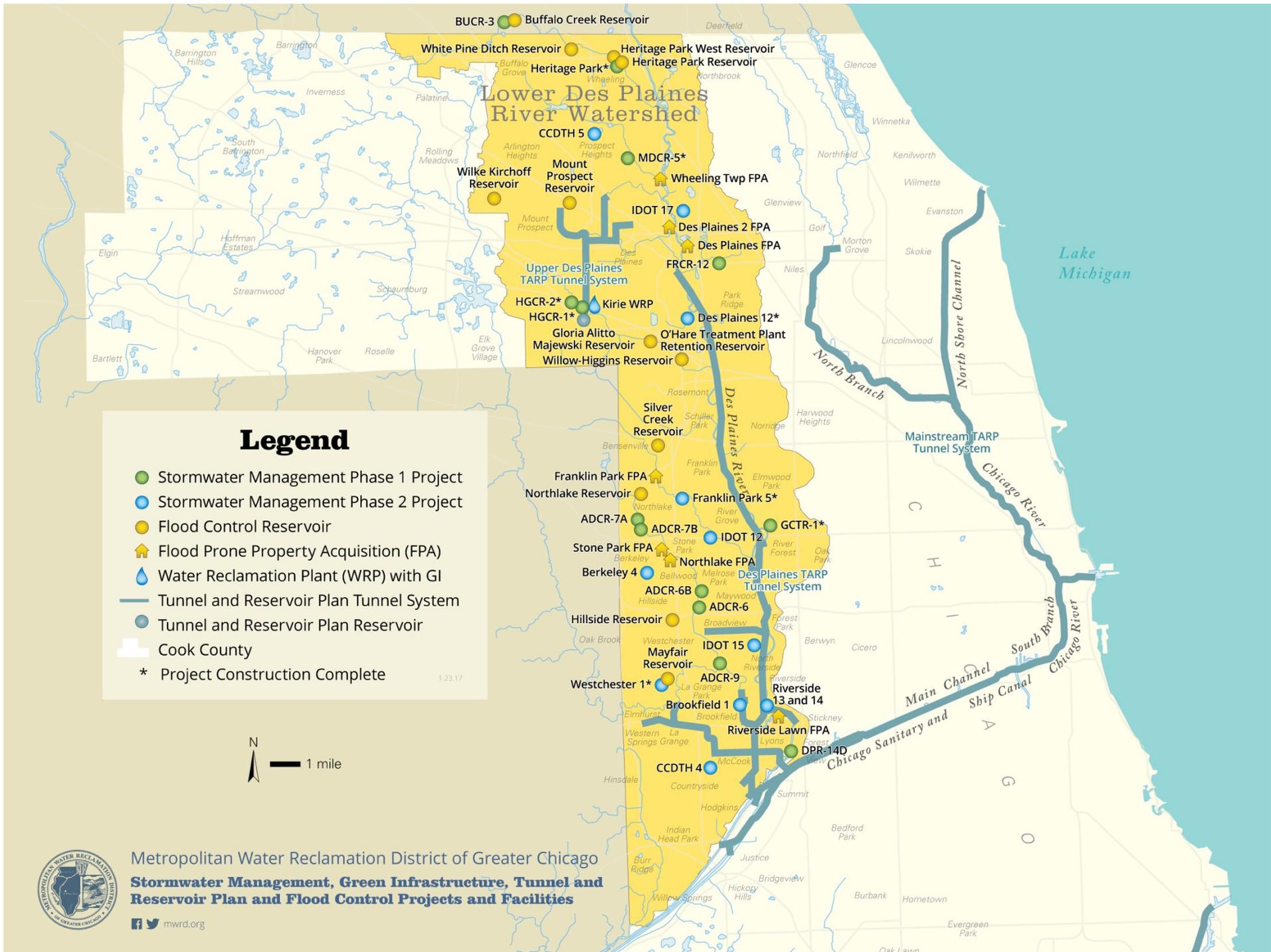


Legend

- Stormwater Management Phase 1 Project
- Stormwater Management Phase 2 Project
- Flood Control Reservoir
- Flood Prone Property Acquisitions (FPA)
- Green Infrastructure (GI)
- Water Reclamation Plant (WRP) with GI
- Tunnel and Reservoir Plan Tunnel System
- Tunnel and Reservoir Plan Reservoir
- Cook County

1.20.17





Legend

- Stormwater Management Phase 1 Project
- Stormwater Management Phase 2 Project
- Flood Control Reservoir
- 🏠 Flood Prone Property Acquisition (FPA)
- 💧 Water Reclamation Plant (WRP) with GI
- Tunnel and Reservoir Plan Tunnel System
- Tunnel and Reservoir Plan Reservoir
- Cook County
- * Project Construction Complete



Metropolitan Water Reclamation District of Greater Chicago
Stormwater Management, Green Infrastructure, Tunnel and Reservoir Plan and Flood Control Projects and Facilities

[f](#) [t](#) [m](#) [w](#) [r](#) [d](#) [o](#) [r](#) [g](#) [o](#)



14-IGA-03, Westchester 1 Phase II Flood Control Project

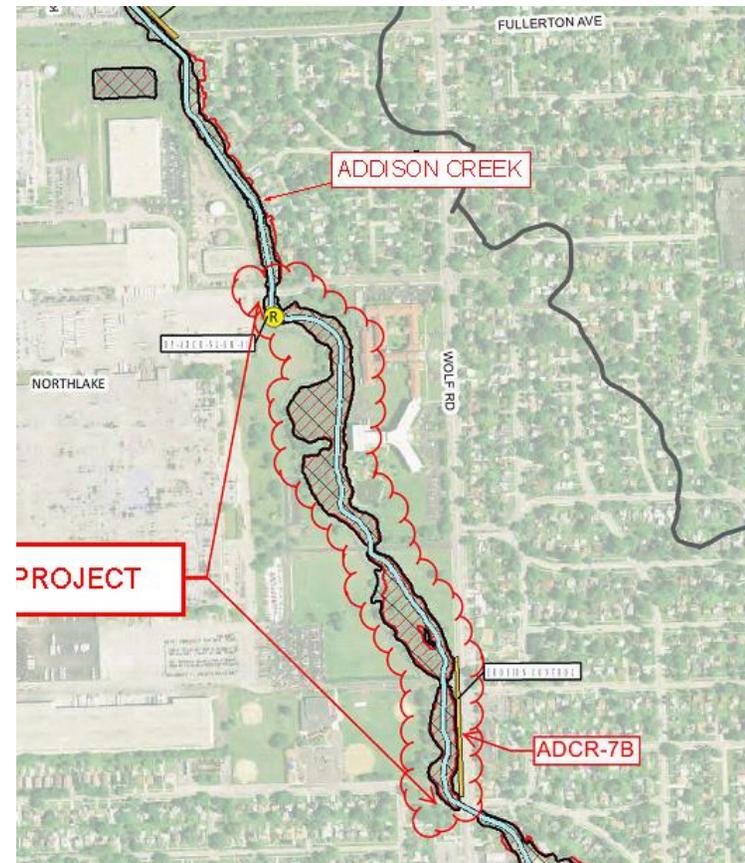
- **MAP ID:** Westchester 1
- **Project #:** 14-IGA-03
- **Location:** Westchester, Illinois
- **Project Description:**
 - Expansion of the Mayfair Reservoir by 84 ac-ft to 118 ac-ft
 - New storm sewer on Carlisle Avenue
 - Direct flood reduction to 60 structures and reduces storm-related impacts to app. 120 homeowners
- **Estimated Construction Cost:** \$1,821,577 MWRDGC contribution
- **Project Status:**
 - Construction complete
- **Project Manager:** Holly Sauter, 312-751-3189, holly.sauter@wprd.org





15-IGA-13, Centerpoint Preserve Riparian Area Restoration Phase II Flood Control Project

- **MAP ID: ADCR-7B**
- **Project #: 15-IGA-13**
- **Location: Northlake, Illinois**
- **Project Description:**
 - Streambank stabilization along Addison Creek from Wolf Road to Palmer Avenue.
 - Removal of two degraded dams.
 - Riparian area restoration and wetland creation.
 - Project will address critical erosion threatening buildings, roads, and utilities
- **Estimated Construction Cost: \$3,913,000**
(1,000,000 MWRDGC contribution)
- **Project Status:**
 - Bidding completed in early April
 - Planning to award in early May
- **Project Manager: Michael Cosme, 312-751-3092,**
Michael.Cosme@mwrdd.org





14-108-3F, Streambank Stabilization Projects for Addison Creek Phase I Flood Control Project

- **MAP ID:** ADCR-7A, ADCR-9
- **Project #:** 14-108-3F
- **Location:** Northlake & North Riverside, Illinois
- **Project Description:**
 - 1,950 linear feet of streambank stabilization adjacent to Fullerton Avenue in Northlake
 - 410 linear feet of streambank stabilization adjacent to 19th Avenue in North Riverside
 - Project will address critical erosion threatening buildings, roads, and utilities
- **Estimated Construction Cost:** \$994,100
- **Project Status:**
 - Applying for SRF funding. Project to be advertised Fall 2017.
- **Project Manager:** Justin Kirk, 312-751-3171, Justin.Kirk@mwrdd.org





16-IGA-15, Stone Park Flood Prone Property Acquisitions

- **MAP ID: Stone Park FPA**
- **Project #: 16-IGA-15**
- **Location: Stone Park, Illinois**
- **Project Description:**
 - **In collaboration with the Village of Stone Park purchase 35 flood-prone properties along Addison Creek**
- **Estimated Acquisition Cost: \$2,700,000**
MWRD – 100%
- **Project Status:**
 - **IGA being finalized**
- **Project Manager: Richard Fisher, 312-751-5479, fisherr@mwr.org**





16-IGA-14, Northlake Flood Prone Property Acquisitions

- **MAP ID: Northlake FPA**
- **Project #: 16-IGA-14**
- **Location: Northlake, Illinois**
- **Project Description:**
 - **In collaboration with the City of Northlake purchase 7 flood-prone properties along Addison Creek**
- **Estimated Acquisition Cost: \$1,184,018**
MWRD – 100%
- **Project Status:**
 - **IGA was executed on November 30, 2016**
 - **Acquisitions are underway**
- **Project Manager: Richard Fisher, 312-751-5479, fisherr@mwrdd.org**



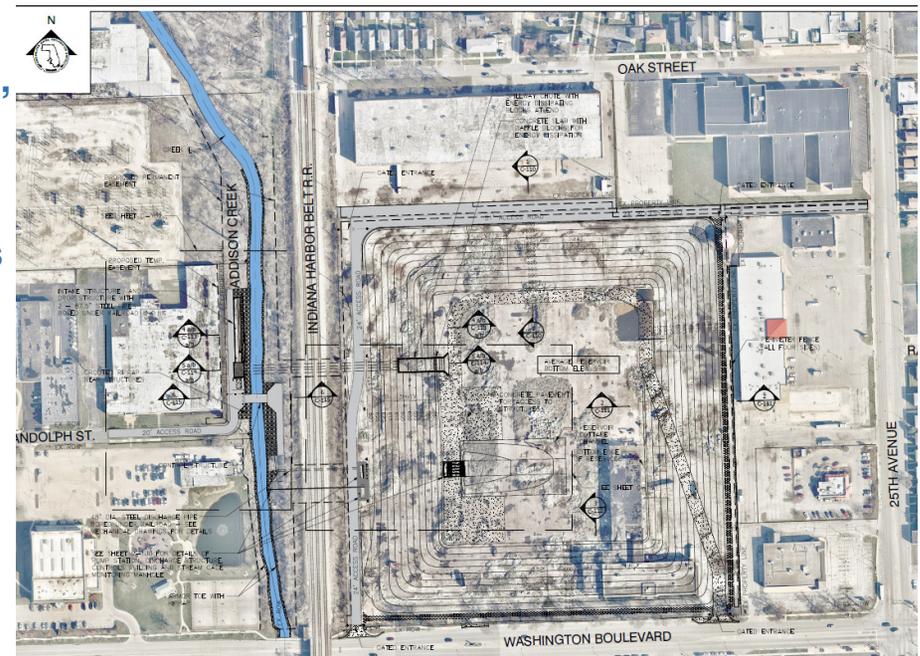
Addison Creek Reservoir & Channel Improvements

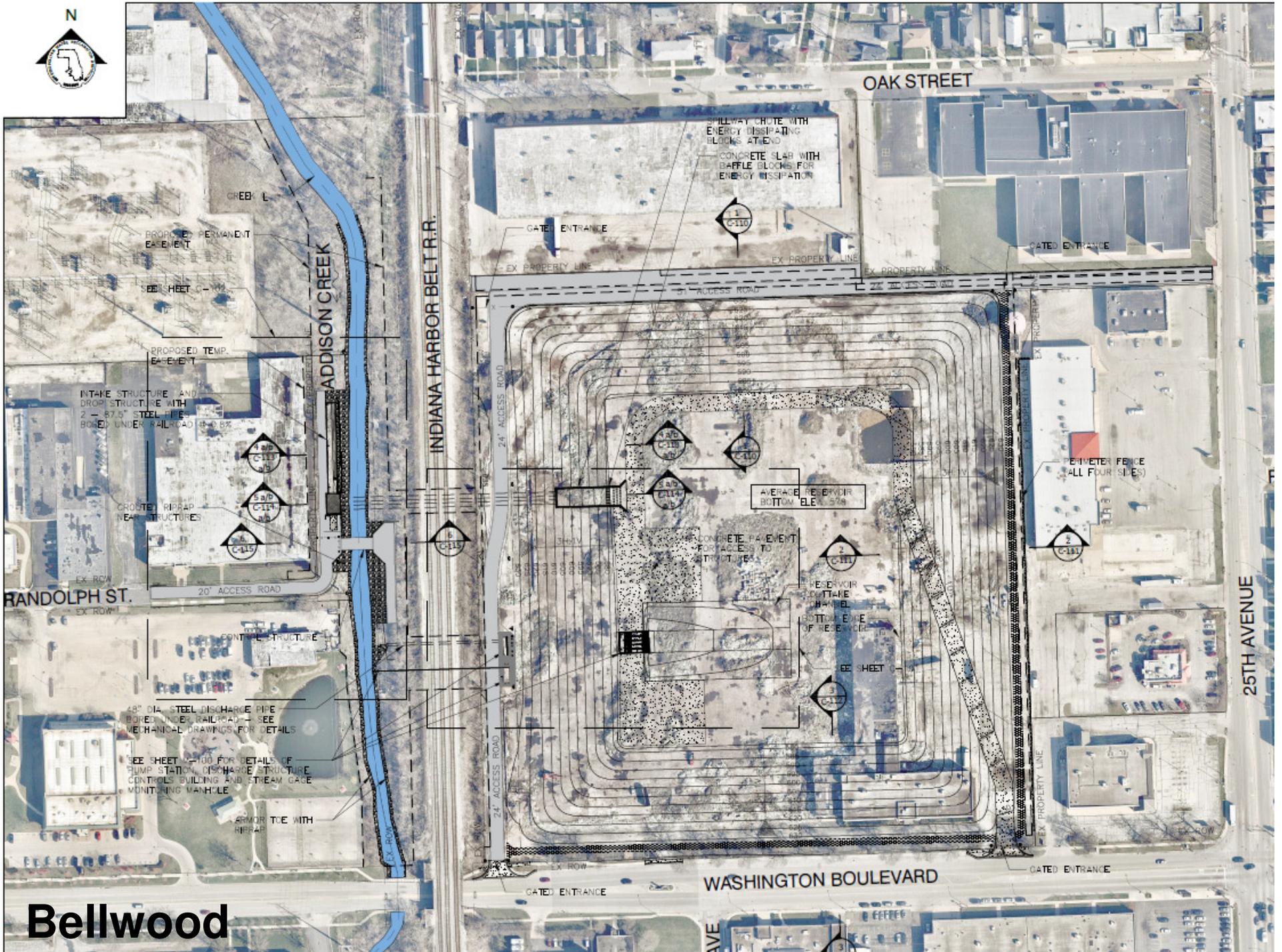




11-186-3F, Addison Creek Reservoir Phase I Flood Control Project

- **MAP ID: ADCR-6**
- **Project #: 11-186-3F**
- **Location: Bellwood, Illinois**
- **Project Description:**
 - 600 ac-ft reservoir with diversion structure, spillway, pump station, outfall structure, and channel improvements
 - The reservoir and channel improvements will protect approximately 1,707 structures from overbank flooding.
- **Estimated Construction Cost: \$95.2M**
- **Project Status:**
 - Final design work underway
 - Working on permits and final design plans
 - Working on obtain land and easements
 - IGA executed with Village of Bellwood
 - Est. construction award in early 2018
- **Project Manager: Michael Cosme, 312-751-3092, Michael.Cosme@mwr.org**





Bellwood



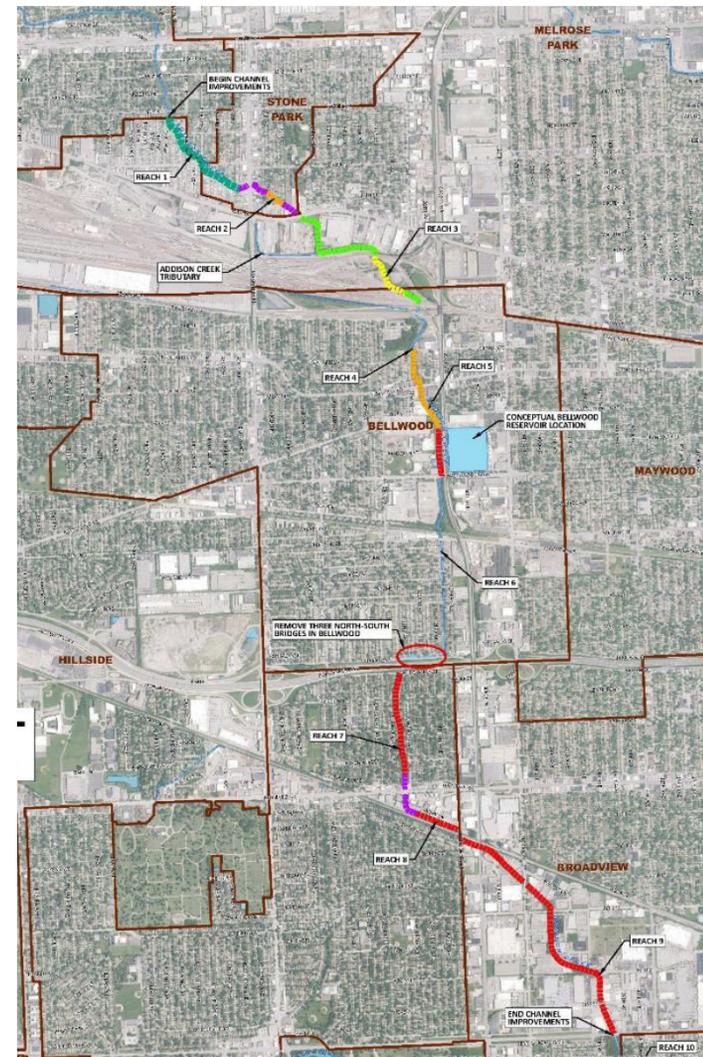
11-186-3F, Addison Creek Reservoir Planned Schedule

Schedule	Activity
Spring 2016 - Summer 2017	Final Design
Winter 2017 - Fall 2017	Acquire Easements
March 2017	Acquired Reservoir Property
Spring-Summer 2017	Demolition & Site Cleanup
Spring-Fall 2017	Permits (USACE, IDNR, IEPA)
Summer 2017	Utility Relocations
Fall 2017	Advertise for Construction
Early 2018	Award Construction Contract
Spring 2018 - Spring 2020	Construction



11-186-3F, Addison Creek Channel Improvements Phase I Flood Control Project

- **MAP ID: ADCR-6B**
- **Project #: 11-187-3F**
- **Location: Northlake, Melrose Park, Stone Park, Bellwood, Westchester, and Broadview, Illinois**
- **Project Description:**
 - Channel improvements from Northlake to Broadview that include open channel, soldier piles wall, gabions, and channel clearing
 - Removal of 3 bridges along Harrison St. at 30th Ave., 31st Ave., and 32nd Ave
 - Project will protect approximately 1,707 structures from overbank flooding.
- **Estimated Construction Cost: \$44.5M**
- **Project Status:**
 - Final design work underway
 - Working on permits and final design plans
 - Drafting IGAs for each village
 - Easements to be acquired
 - Est. construction award in late 2018
- **Project Manager: Michael Cosme, 312-751-3092, Michael.Cosme@mwr.org**





11-186-3F, Addison Creek Channel Improvements Phase I Flood Control Project



Open Channel Example



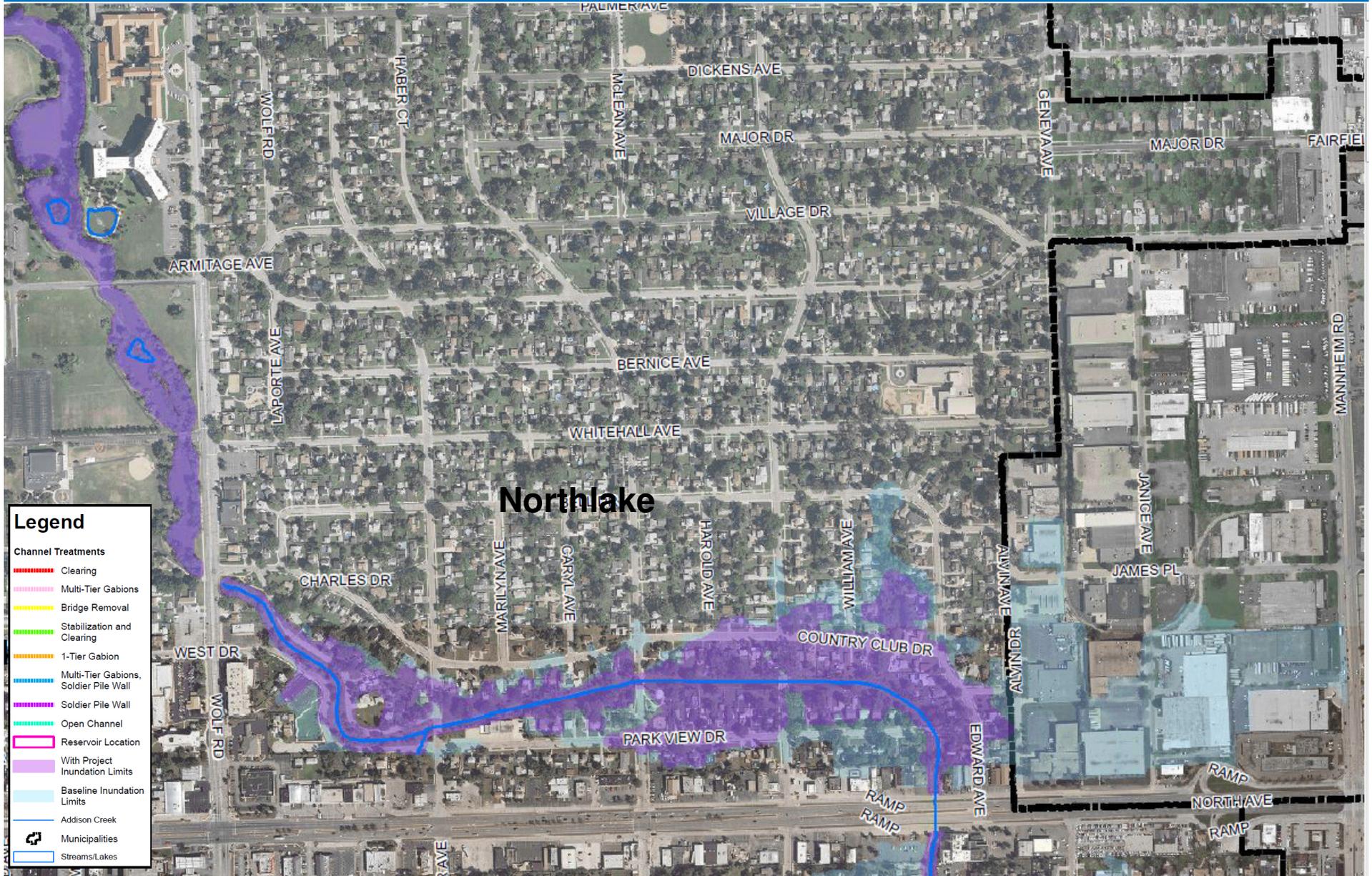
Gabions Example



Soldier Pile Wall Example

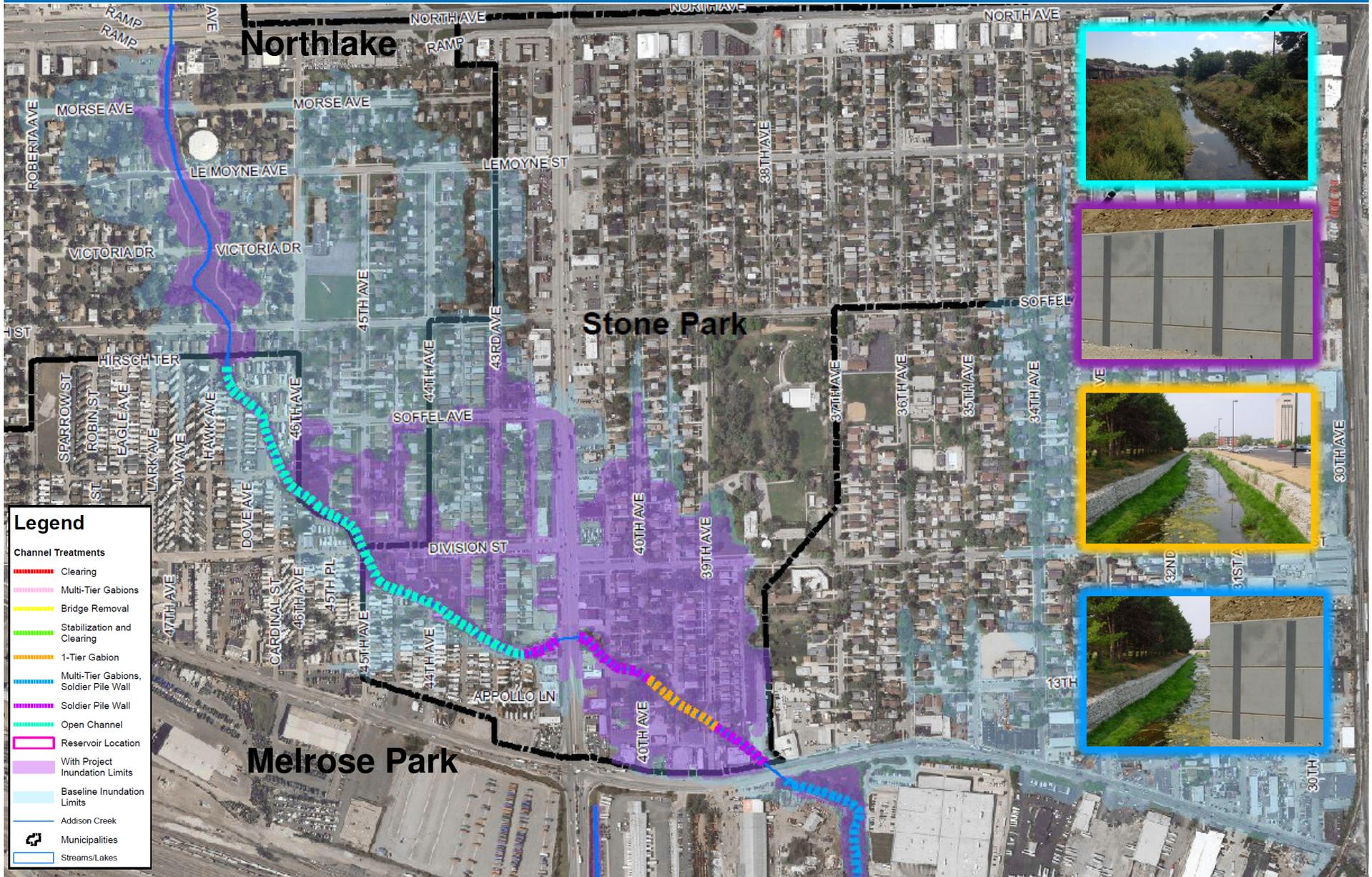


Inundation Map of Addison Creek



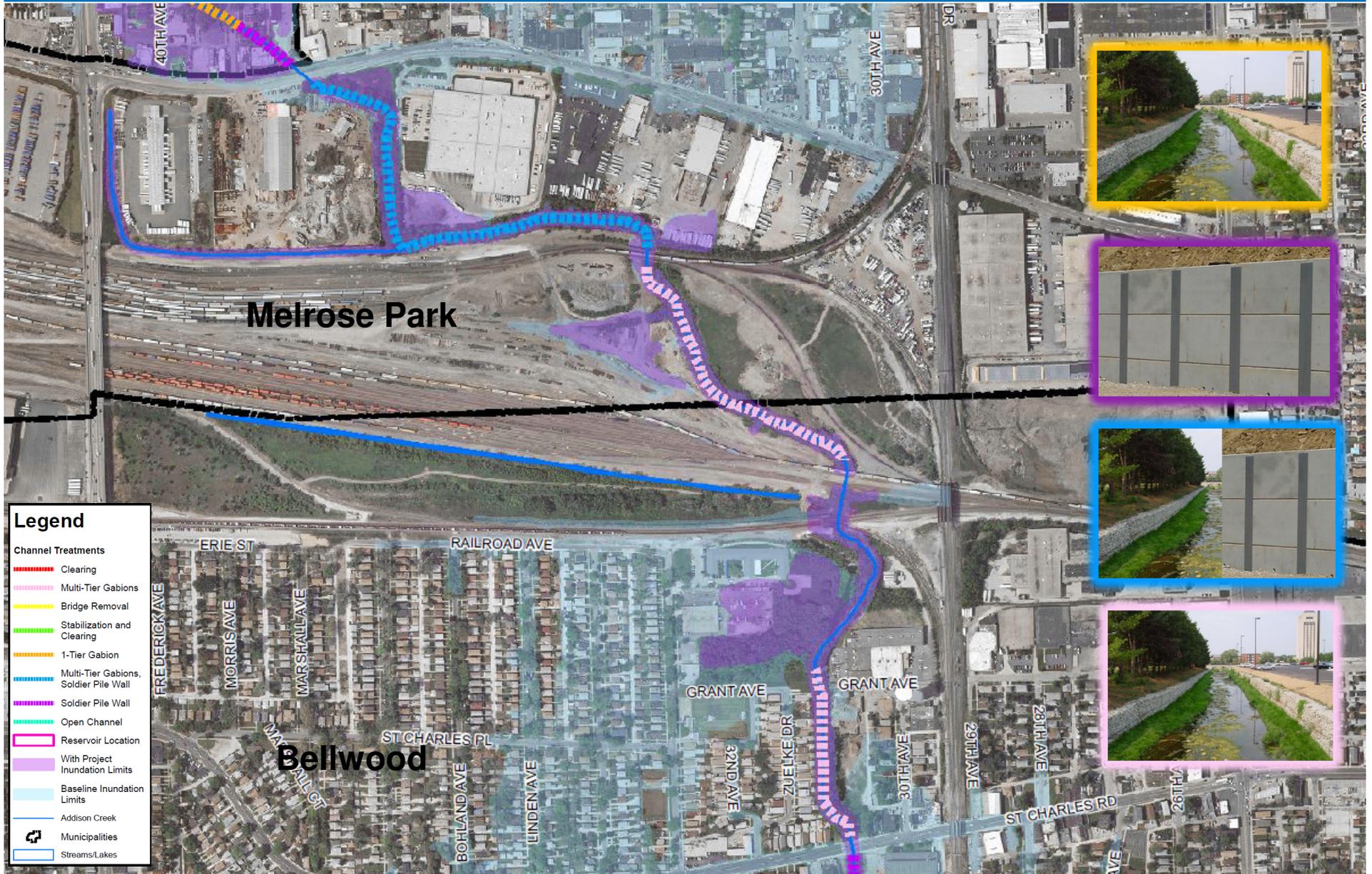


Inundation Map of Addison Creek



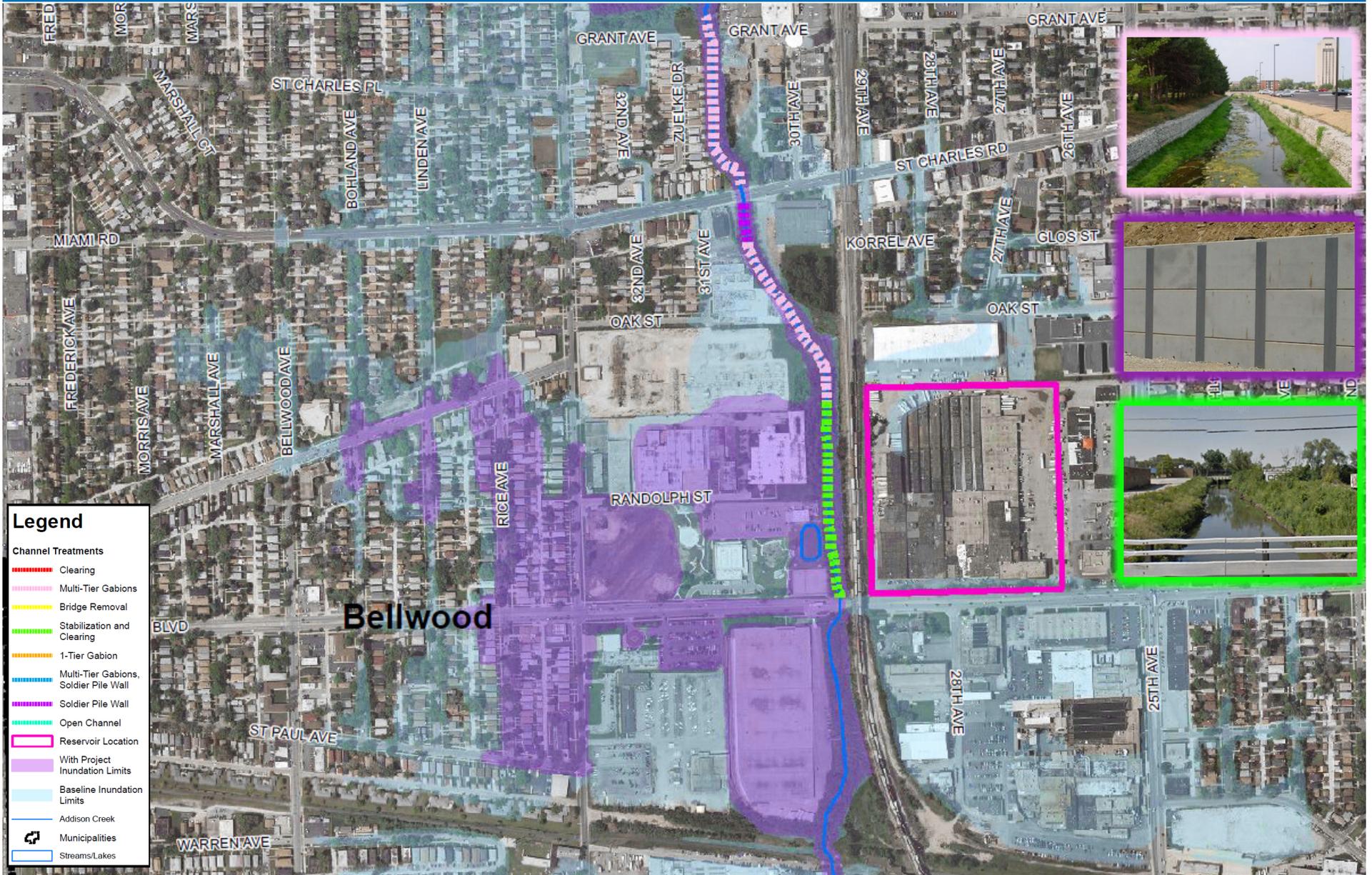


Inundation Map of Addison Creek



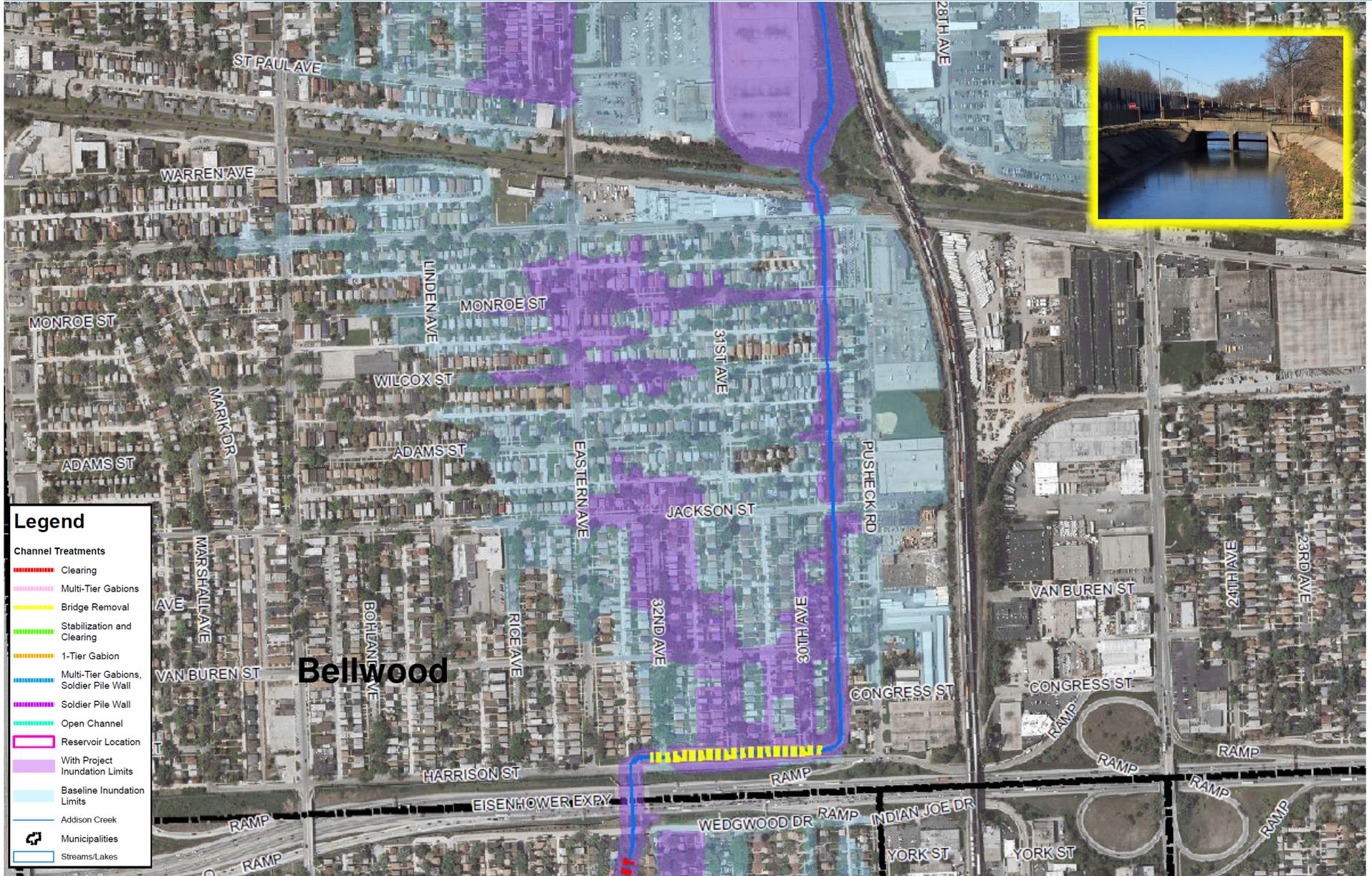


Inundation Map of Addison Creek



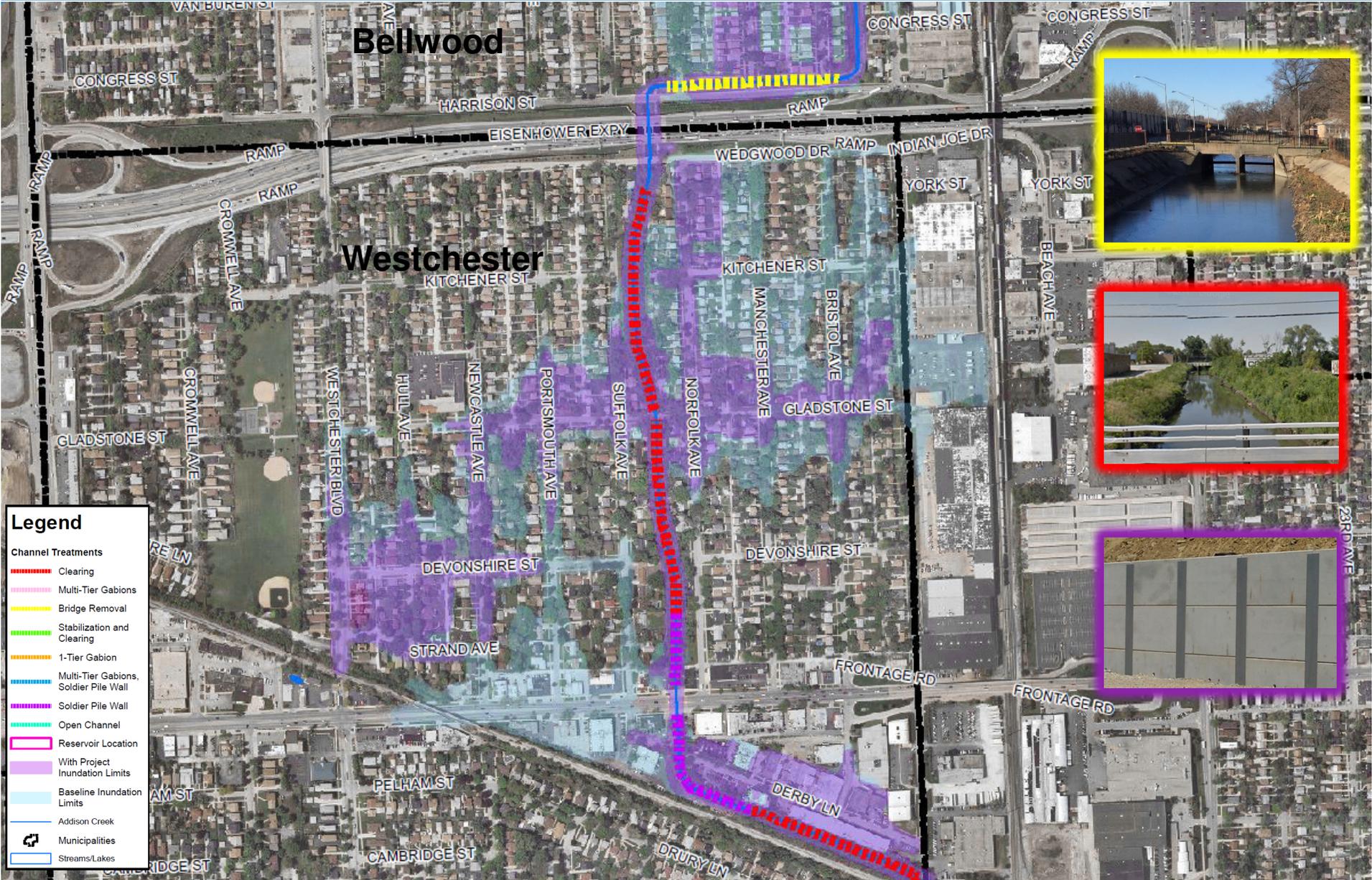


Inundation Map of Addison Creek



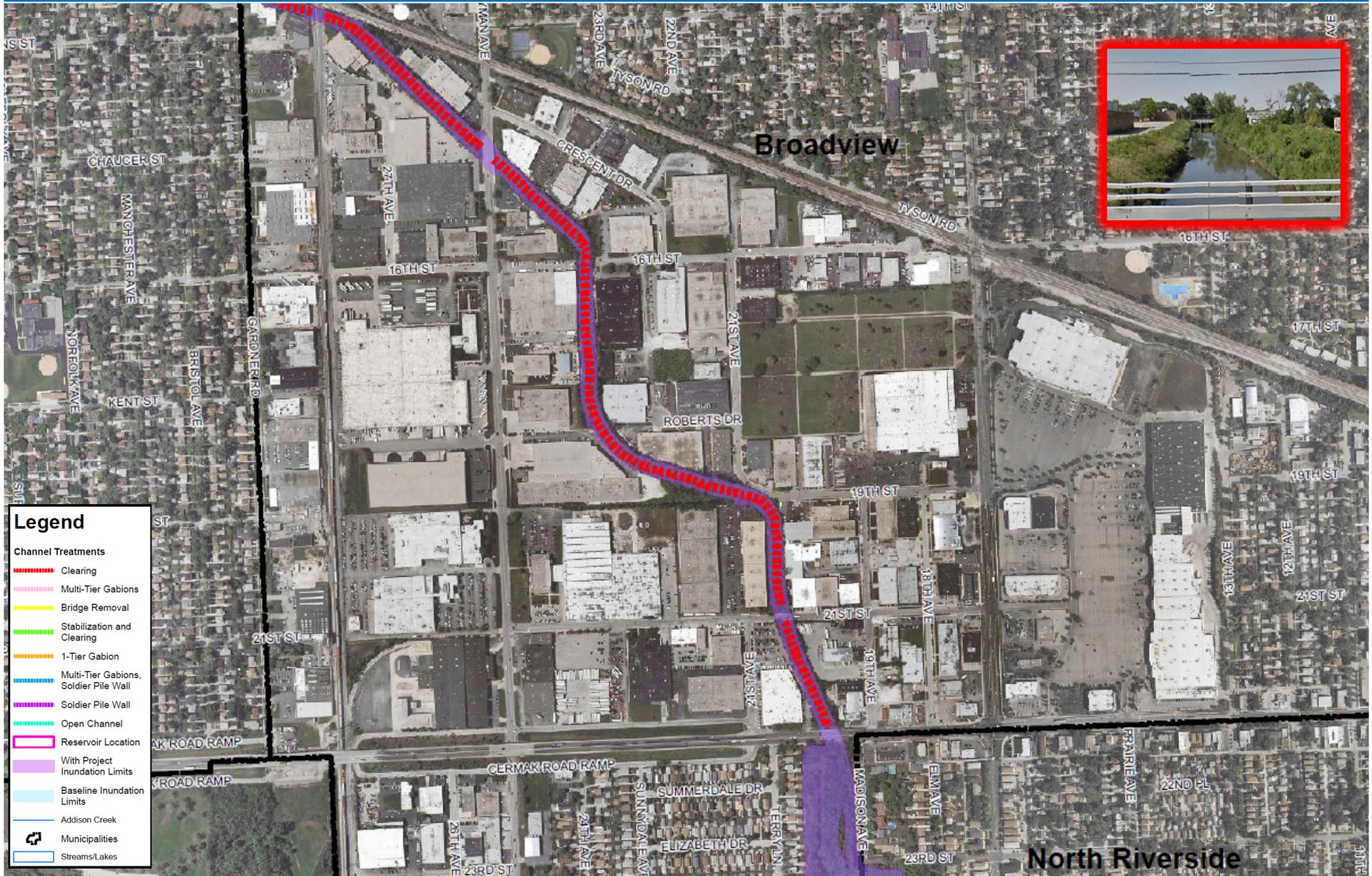


Inundation Map of Addison Creek





Inundation Map of Addison Creek





11-187-3F, Addison Channel Improvements Planned Schedule

Schedule	Activity
Spring 2016 - Spring 2018	Final Design
Spring 2017 - Spring 2018	Permits (USACE, IDNR, IEPA)
Summer 2017 - Spring 2018	Negotiate & Enter Into Intergovernmental Agreements
Summer 2017 - Summer 2018	Acquire Easements
Late Summer 2018	Advertise for Construction
Late Fall 2018	Award Construction Contract
Winter 2018 - Winter 2021	Construction



Benefits

Community	Baseline Number of Parcels Damaged	With Project Number of Parcels Damaged	Parcels Removed from Floodplain Area	Total Baseline Damages	Total With Project Damages	Total Benefits
Broadview	2	0	2	\$73,600	0	\$73,600
Bellwood	991	188	803	\$33,490,300	\$852,150	\$32,638,150
Melrose Park	316	4	312	\$5,776,450	\$98,900	\$5,677,550
Northlake	296	78	218	\$28,494,700	\$1,991,800	\$26,502,900
Stone Park	314	131	183	\$46,437,000	\$1,637,600	\$44,799,400
Westchester	262	73	189	\$7,570,450	\$803,805	\$6,766,600
Total	2181	474	1707	\$121,842,500	\$5,384,300	\$116,458,200



Estimate Average Annual Saving on Flood Insurance Policies

- **Average Annual Cost for National Flood Insurance Program's Flood Insurance Policy within the Floodplain = \$1,975***
- **Average Annual Cost for National Flood Insurance Program's Preferred Risk Policy (PRP) outside the Floodplain = \$495***
- **Estimated Annual Savings for the 1,707 parcels removed from the Floodplain but still purchasing PRP = \$2.5M***

*Based on National Flood Insurance Policy information provide by Illinois Department of Natural Resources for the benefitting project area.



FEMA



ILLINOIS



**DEPARTMENT OF
NATURAL
RESOURCES**

Small Streams Maintenance Program





Small Streams Maintenance Program

- **The Small Streams Maintenance Program (SSMP), conceived and established in 2006, follows MWRDGC's stormwater management mission to relieve flooding in urbanized areas through immediate and relatively simple remedies.**
- **The objective of the program is to remove obstructions and debris in the waterways that impede the natural drainage of small streams and rivers.**
- **SSMP covers approximately *532 miles* of small streams within Cook County.**

Small Streams Maintenance Program



Equipment

Skid Steer



Compact Utility Loader



Gradall



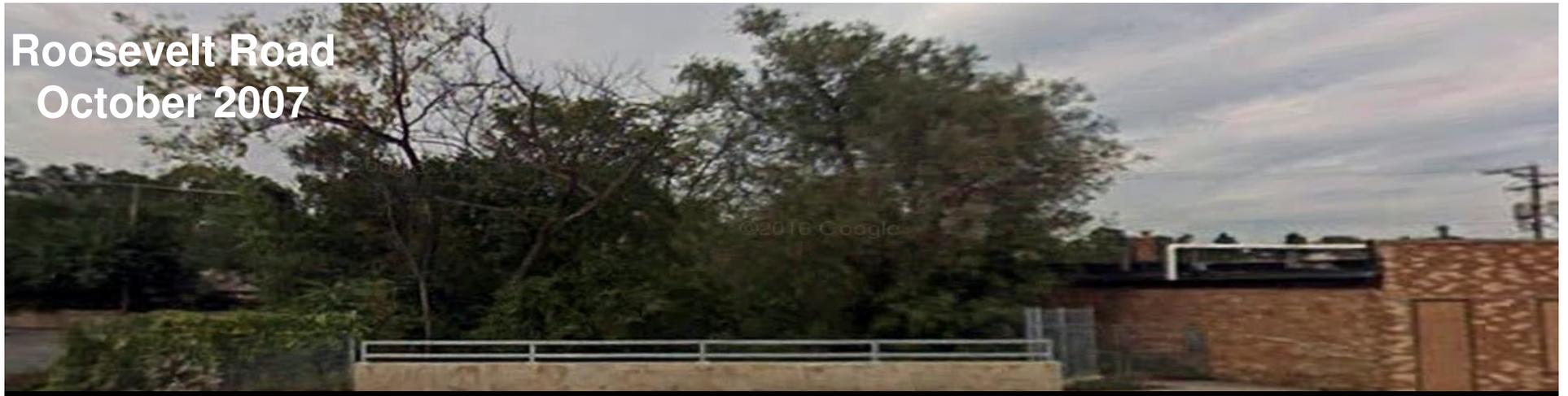
Additional Resources



Small Streams Maintenance Program

Stormwater Management

Roosevelt Road
October 2007



SSMP Cleared Vegetation in 2009

Roosevelt Road
June 2011



Roosevelt Road
September 2015



**Gardner
June 2011**



**Gardner
August 2014**

SSMP Cleared Vegetation in 2013



**Gardner
August 2016**



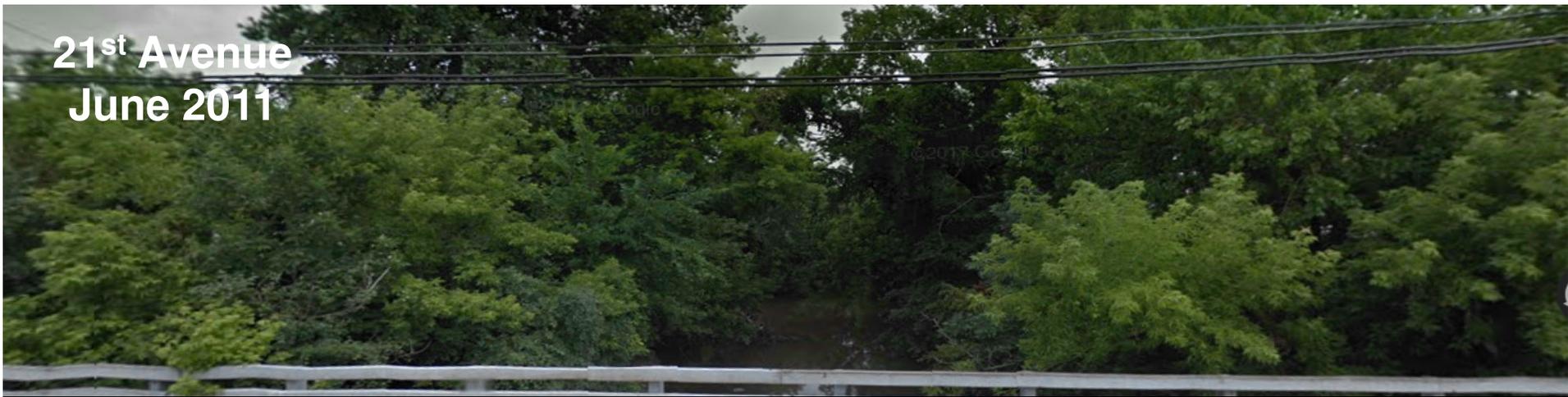
25th Avenue
June 2011

SSMP Cleared Vegetation in 2013

25th Avenue
August 2016

Google

21st Avenue
June 2011

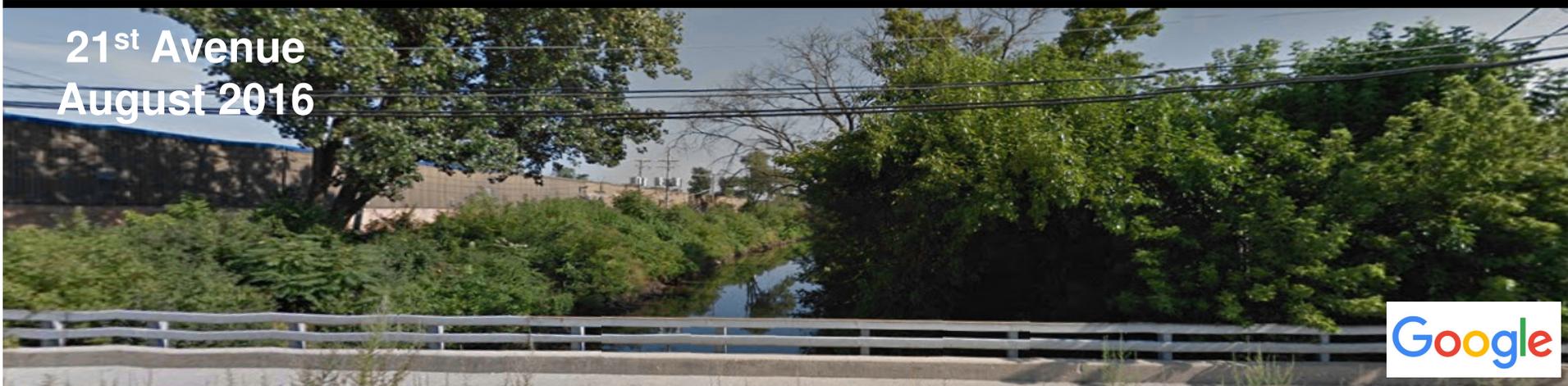


21st Avenue
September 2014

SSPM Cleared Vegetation in 2014



21st Avenue
August 2016

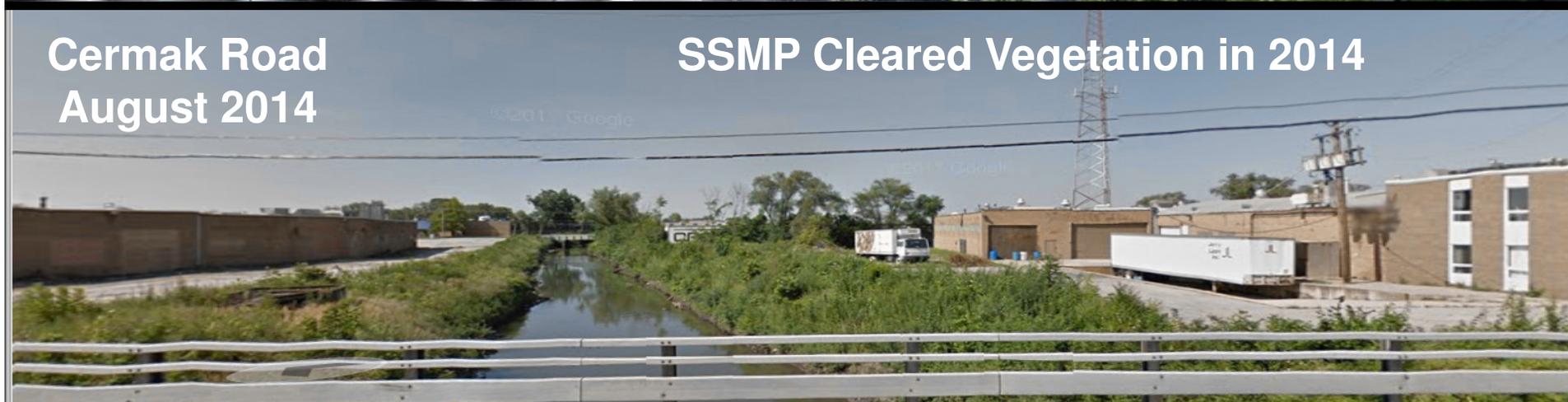


Cermak Road
June 2011

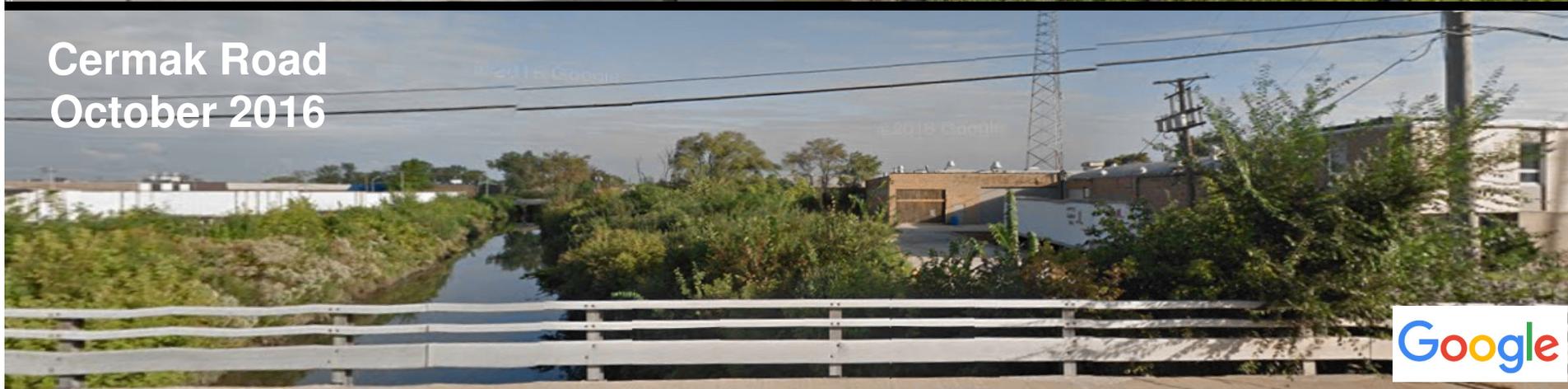


Cermak Road
August 2014

SSMP Cleared Vegetation in 2014



Cermak Road
October 2016





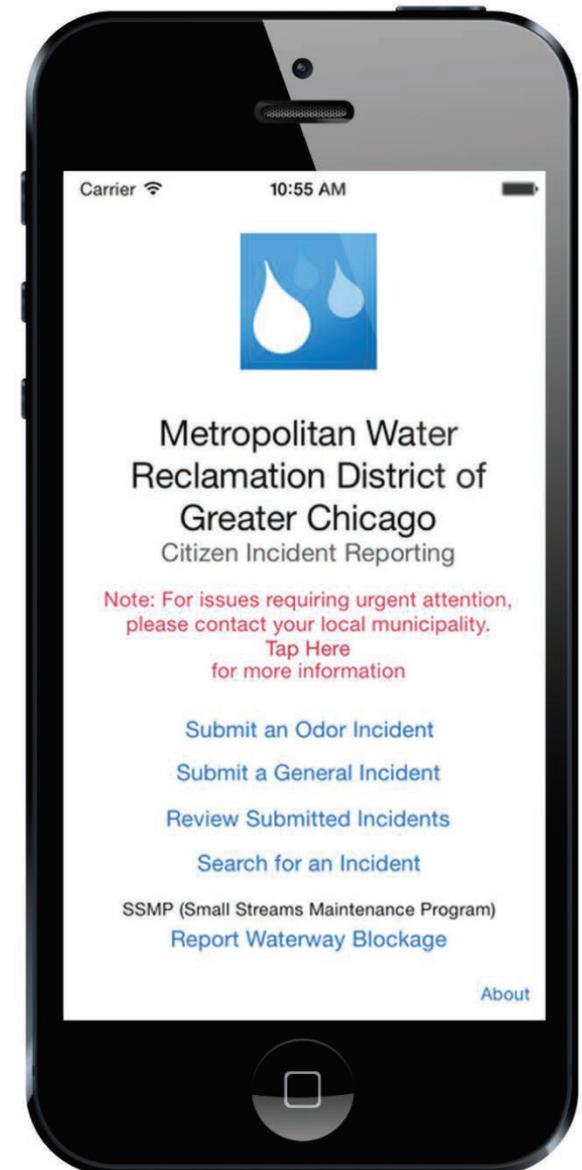
Reporting Waterway Issues

- www.mwrd.org
- iPhone app called MWRDCIR
- Brian Levy at 708-588-3171 or brian.levy@mwrd.org



Small Streams Maintenance Program

Stormwater Management



Rain Barrels Program





Rain Barrels

- Available to Cook County residents for \$47
- Includes a leaf and mosquito filter basket, spigot/tap, overflow adaptor, overflow hose, flexible elbow, a linking hose to connect to second barrel, detailed instructions, and free home delivery
- Size: 55 Gallon
- Dimensions: 23” Wide by 38” Tall
- Colors: Grey, Blue, Black, Terra Cotta



Public Affairs

Stormwater Management



Rain Barrels

- **Through March 15, 2017: 1,713 MWRD rain barrels have been distributed in Westchester**
- **Through December 2016: approximately 120,000 MWRD rain barrels have been distributed in communities across Cook County.**
- **Visit www.mwrdd.org to find out more information about how to purchase a rain barrel.**
- **Contact the Office of Public Affairs 312.751.6633 or public.affairs@mwrdd.org.**

Restore the Canopy Program





Restore the Canopy Program

- **Launched in 2016 to restore depleting tree population in Cook County**
- **MWRD has distributed 21,284 trees in communities across Cook County**
- **Available for picked up every Wednesday from 9am – 12pm at the following locations:**
 - **Calumet WRP**
 - **Egan WRP**
 - **Hanover Park WPR**
 - **Kirie WRP**
 - **O'Brien WRP**
- **Contact the Office of Public Affairs
312.751.6633 or public.affairs@mwrdd.org**





Watershed Planning Council

Watershed	Date(s)	Time	Location	Notice / Agenda
Upper Salt Creek and Poplar Creek	January 18, 2017	10:30 a.m.	Prairie Center for the Arts 201 Schaumburg Court Schaumburg, IL	January 18 Agenda
	April 19, 2017			April 19 Agenda, Cancelled
	July 19, 2017			July 19 Agenda, Not Available
	October 18, 2017			October 18 Agenda, Not Available
Lower Des Plaines River Tributaries	February 16, 2017	10:00 a.m.	Northlake City Hall 55 E. North Avenue Northlake, IL	February 16 Agenda
	May 11, 2017			May 11 Agenda, Not Available
	August 10, 2017			August 10 Agenda, Not Available
	November 9, 2017			November 9 Agenda, Not Available
Cal-Sag Channel	January 31, 2017	6:00 p.m.	Bedford Park Village Hall 6701 South Archer Road Bedford Park, IL	January 31 Agenda
	April 19, 2017			April 19 Agenda, Agenda
	September 27, 2017			September 27 Agenda, Not Available
	October 30, 2017			October 30 Agenda, Not Available
Little Calumet River	February 9, 2017	6:00 p.m.	South Suburban Mayors and Managers Office 1904 W. 174th Street East Hazel Crest, IL	February 9 Agenda
	May 11, 2017			May 11 Agenda, Not Available
	September 14, 2017			September 14 Agenda, Not Available
	November 9, 2017			November 9 Agenda, Not Available
North Branch of the Chicago River	March 7, 2017	10:00 a.m.	Lincolnwood Village Hall 6900 N. Lincoln Avenue Lincolnwood, IL	March 7 Agenda
	June 6, 2017			June 6 Agenda, Not Available
	September 5, 2017			September 5 Agenda, Not Available
	December 5, 2017			December 5 Agenda, Not Available



Questions?

Contact Information:

Michael Cosme, P.E.

Senior Civil Engineer

Stormwater Management

MWRDGC

111 E. Erie St., Chicago, IL 60611

(312) 751-3209

Michael.Cosme@mwrdd.org