

A wide-angle photograph of a field filled with numerous purple flowers, likely asters, in full bloom. The flowers are densely packed and extend to the horizon. The background shows a line of trees and a clear sky. The text is overlaid on the upper portion of the image.

# Libertyville Township Open Space Report 2021

# 2021 Accomplishments

- 3,394.06 gallons of herbicide solution applied
- 1,216.64 lbs. native seed sowed
- 1872 lbs. cover crop sowed
- 12 lbs. native seed collected
- 152.84 acres prescribed burned
- 129.28 acres rough-cut mowed
- 45 individual volunteers
- 13 volunteer workdays
- 22 brush piles burned
- 41.54 acres cleared of invasives
- 2 seasonal employees



# Prescribed Burning

- 152.84 total acres burned
- 6 in-house burn days
- Fire lines prepared
- Regular prep to fire equipment – PPE, tools, etc.



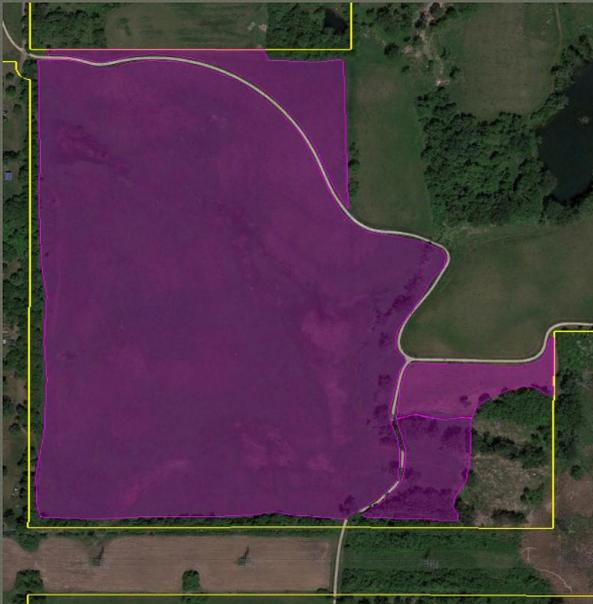
# Prescribed Burning - St. Mary's

17.15 acres



# Prescribed Burning - Liberty Prairie

66.69 acres



# Prescribed Burning - Liberty Prairie



# Prescribed Burning - Oak Openings



18.2 acres

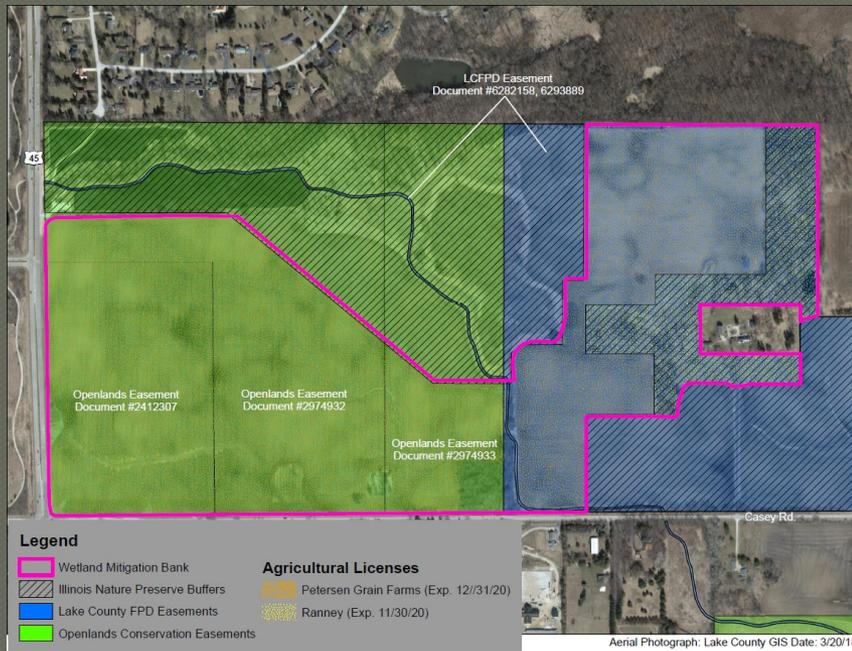
# Prescribed Burning - Atkinson

● 18 acres (ILM)



# Donnelley Prairies & Oaks Mitigation Bank Planning

- Prospectus submitted
- Next step – Public notice & comment period (2022)
- Construction anticipated to begin in late 2022



# Rt. 45 Parcel - Restoration Planning

- Natural Resources Inventory, Ecological Restoration and Management Plan (ERMP) completed
  - Wetland delineation
  - Tree survey
- Continuing to pursue grant opportunities

## NATURAL RESOURCES INVENTORY, ECOLOGICAL RESTORATION & MANAGEMENT PLAN Route 45 Parcel

Libertyville Township, Lake County, Illinois



*Bott Prairie*

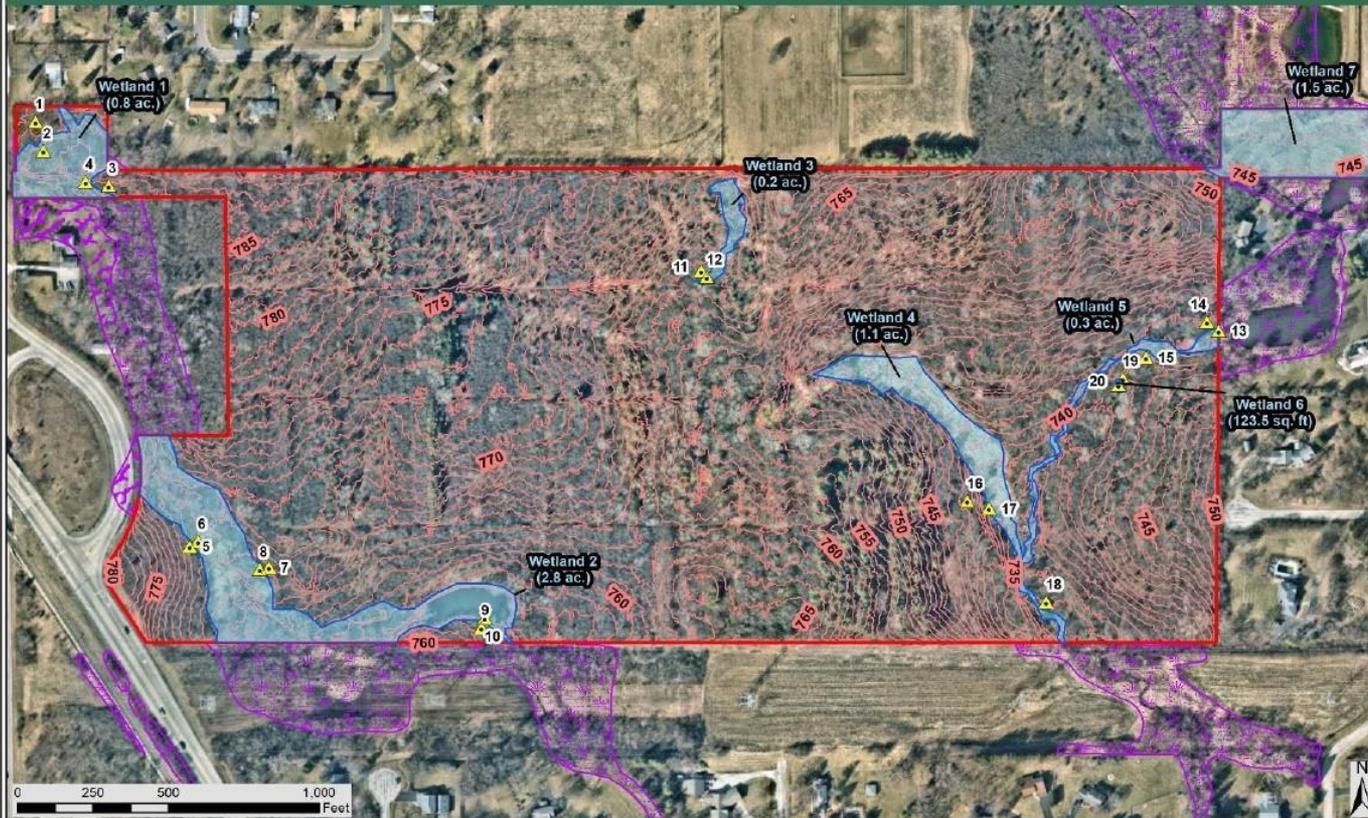


*Route 45 Property Location*

# Rt. 45 Planning - Wetland Delineation

## Route 45 Open Space Wetland Delineation

Libertyville Township, Lake County, IL



Data Source(s): RES, Lake County, USGS, ESRI World Imagery



AES Project #: 21-0056  
Mapped by: SJJ  
Map Date: Jul 20, 2021

Legend	
Area of Interest (AOI)	Lake County Wetland Inventory
Delineated Wetlands	Approximate Offsite Wetland
Data Point	Converted Wetland
1-Foot Contour	Wetland - Potential

# Rt. 137 Parcel Restoration - Continuation

- Further thinning of undergrowth, dead and diseased trees, and invasive species
- Increased light penetration through canopy to understory
- Promotes prairie/savanna vegetation establishment



# Rt. 137 Parcel Restoration - Continuation

**BEFORE**



**AFTER**

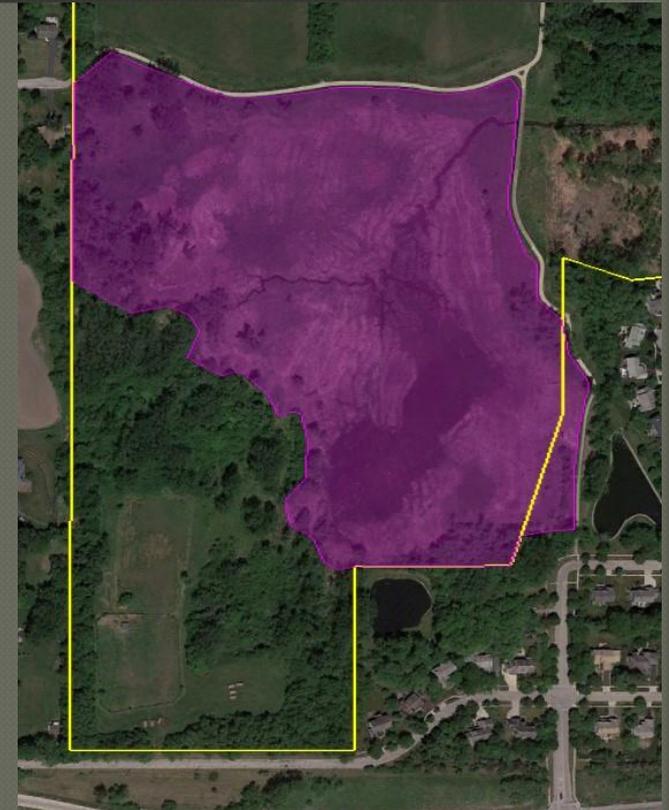


# Rt. 137 Restoration - Contracted Tree Removals



- Trees removed were diseased, dead, and severely leaning over property line

# Rt. 137 Parcel - Wetland Restoration



- Prescribed Burn Contract
- Integrated Lakes Management
- Spring 2021
- ~30 acres

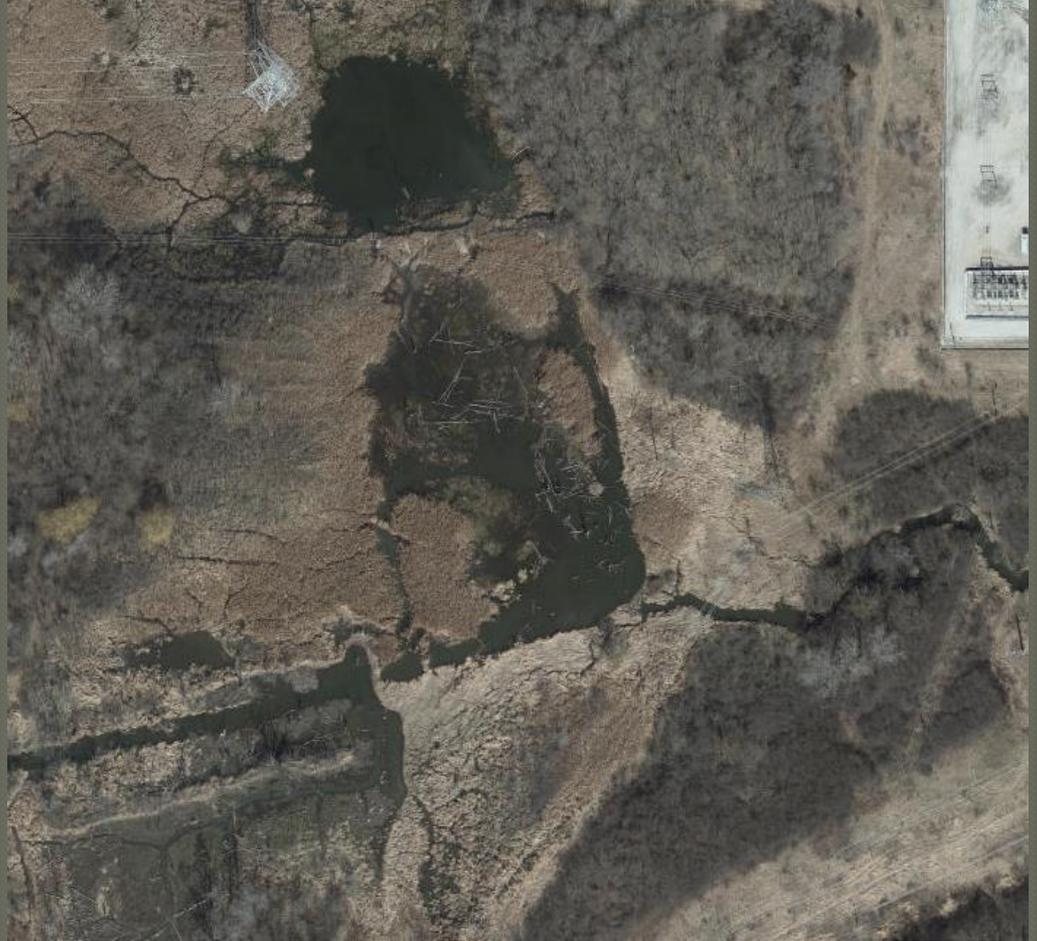
# Rt. 137 Parcel - Wetland Restoration



- Volunteer Workday - 21 volunteers
- 1024.76 lbs. of native seed sowed
- 31 different native species

# Rt. 137 Parcel - Beavers

- Lodges and dams
- Migration up stream
- Site meeting
- Partner with USDA APHIS
- Beaver population reduction
- Begin to remove structures



# Rt. 137 Parcel - Beavers



# Rt. 137 Parcel - Log Jam Removal



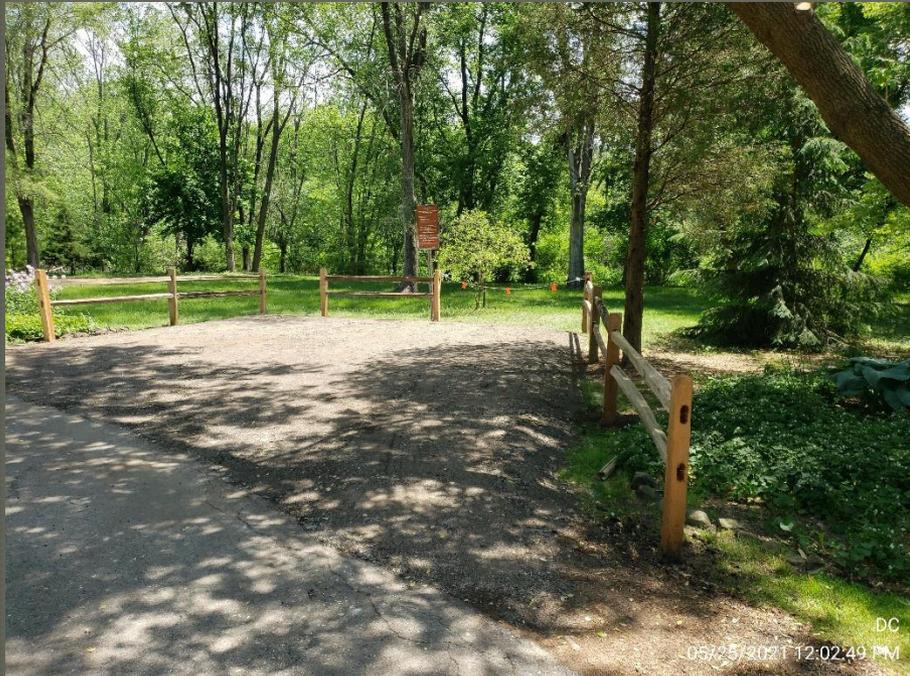
# Kildare Ave Parcel - Restoration

BEFORE



# Kildare Ave Parcel - Restoration

AFTER



- Site access improvement for restoration work and recreation opportunities

# Kildare Ave Parcel - Restoration



- 4 of loads of scrap
- 5 loads of tires and trash

# Kildare Ave Parcel - Restoration

BEFORE



# Kildare Ave Parcel - Restoration

AFTER

(Sneak peak of 2022 Report)



# Canterbury - Restoration Project

BEFORE



AFTER



# Canterbury - Restoration Project



# Canterbury - Restoration Project



# Canterbury - Restoration Project Volunteers

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- Carmel High School Environmental Club – Seed Collection



# Casey Road North - 319 Grant

- Completed in 2019
- Ongoing monitoring and maintenance
  - Biannual inspections
  - Mowing
  - Herbicide application
  - Address concerns
- 2<sup>nd</sup> Growing Season



Photo by Ely and Associates, Inc. 08/04/2020

# Casey Road North - 319 Grant

BEFORE

AFTER



# Lindholm Park Improvements



- ~ 4,500 lbs. of field conditioner added and incorporated into ball field clay

# Lindholm Park Improvements



# Lindholm Park - Sealcoating



# Bull Creek Trail - Sealcoating



# Tree Work

- In-house removals
  - Wind/storm damage
  - Dead and dying trees
  - Tree pruning



# Tree Work



# Tree Work



# Restoration Mowing

- Restoration mowing
  - Canterbury
  - Liberty Prairie
  - Milwaukee
  - Oak Openings
  - River Rd.
  - Rt. 137
  - St. Mary's

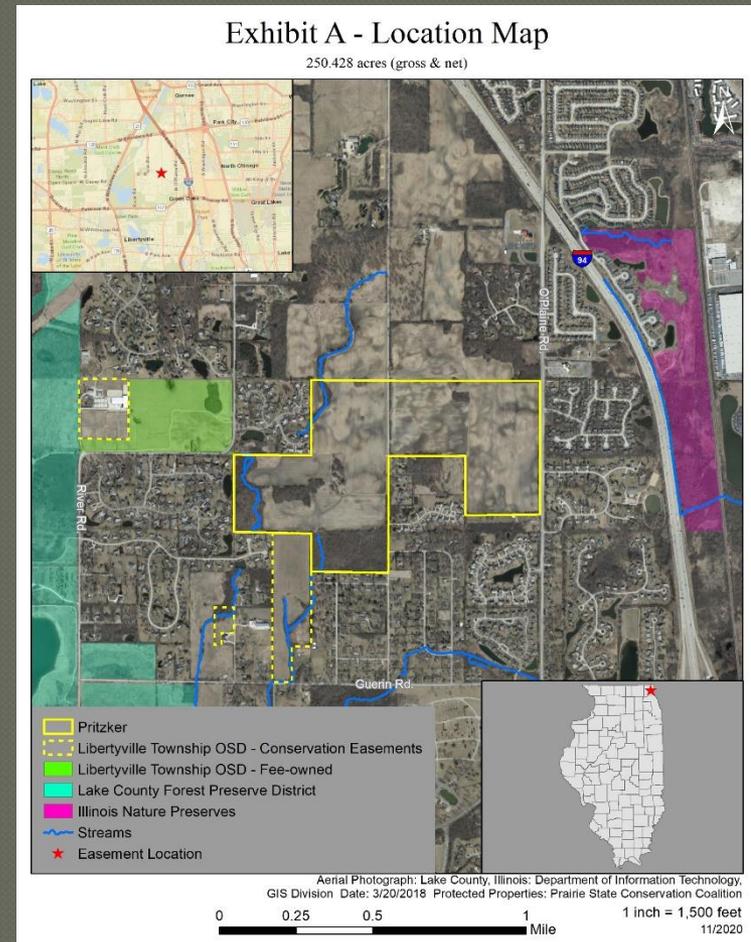


# 2021 Auction



# Conservation Easement Monitoring

- Pritzker baseline completed
- Annual monitoring visits on Township held conservation easements:
  - Bott, Brennan, Getz and Maxey
- Bleck Easement monitoring completed



# Volunteer Herbicide Class

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- Held on virtually on January 30<sup>th</sup>, 2021
- 13 participants
- Training allows the participants to apply herbicides to invasive plants during volunteer workdays

# Eagle Scout Project – Habitat Enhancement

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- Habitat improvement

- Nicholas Psimaras
- Completed

- American Kestrel Boxes

- Nolan Johnson
- Completed



# Eagle Scout Project - Kestrel Boxes



# Additional Assistance Provided

HIGHWAY DEPARTMENT



FOOD PANTRY & GROUNDS



# Miscellaneous

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- Established new Eastern Bluebird trail along Bull Creek Trail
- Partnered with the wildland SRT for recruitment film
- Partnered with Openlands to install Liberty Prairie Reserve signage
- Hauled and spread mulch donation
- Site tours with Township Attorney, TWP hires & Openlands
- Provided assistance with Shawnee National Forest prescribed burns
- Milwaukee Ave. inholdings sale – research, easements, survey, etc.

# Office & Planning



- Annual site management plans & presentation
- Identify budgeting needs
- Request for quotes / draft contracts
- Rx burning & restoration planning
- Reporting
  - Illinois Nature Preserve Commission
  - Open Space/MS4 monthly reports
  - Grants
- NBWW and DRWW committee members
- Seasonal employee management
- Scheduling of maintenance
- Annual ball field permits
- Daily logs

# 2022 Preview

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- Spring
  - Applications for ComEd Green Region Grant and Wetland Restoration Funds (LCSMC)
  - Inhouse prescribed burns
  - Contracted prescribed burn at Atkinson Rd. & Canterbury
  - Kildare Ave cover crop sowing
  - Egidi & St. Mary's drainage project monitoring & maintenance
  - Continue 319 Grant monitoring & maintenance
  - Annual turf herbicide application
  - Lindholm Park Ball field restoration & maintenance
  - Landscape maintenance, restoration mowing, herbicide applications and follow up treatments, trail maintenance, etc.
  - Address damage caused by incidents of vandalism
  
- Summer
  - Landscape maintenance, restoration mowing, herbicide applications and follow up treatments, trail maintenance, etc.
  - Egidi & St. Mary's drainage project monitoring & maintenance
  - Continue 319 Grant monitoring & maintenance
  
- Fall
  - Landscape maintenance, restoration mowing, herbicide applications and follow up treatments, trail maintenance, etc.
  - Inhouse prescribed burns
  - Restoration clearing
  
- Winter
  - Restoration clearing

# Thanks!

- Residents and Neighbors
- Seasonal Employees
  - Emme S. & Nick P.
- Volunteers
  - Xenia – 14 Days
  - Ted – 10 Days
  - Mike – 9 Days
  - Bradley – 8 Days
  - Dale – 7 Days
  - Amy – 6 Days
  - Rafael – 5 Days



Questions?