

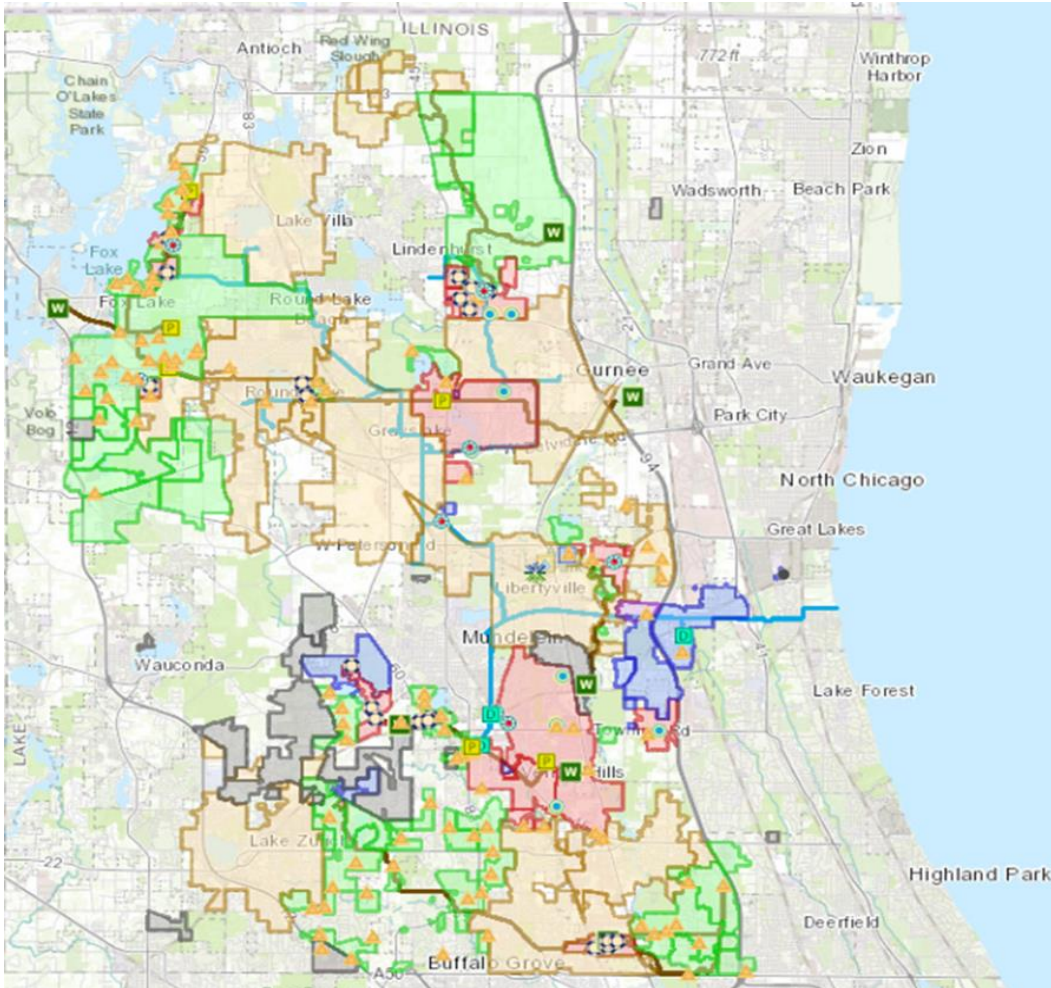


Lake County Public Works Annual Update

Austin McFarlane
Interim Director
April 27, 2022

Public Works Mission: Deliver exceptional, financially sustainable, reliable, drinking water and wastewater services in a safe manner, ensuring high quality service, public health and environmental stewardship.

Services Provided Through a Network of Systems



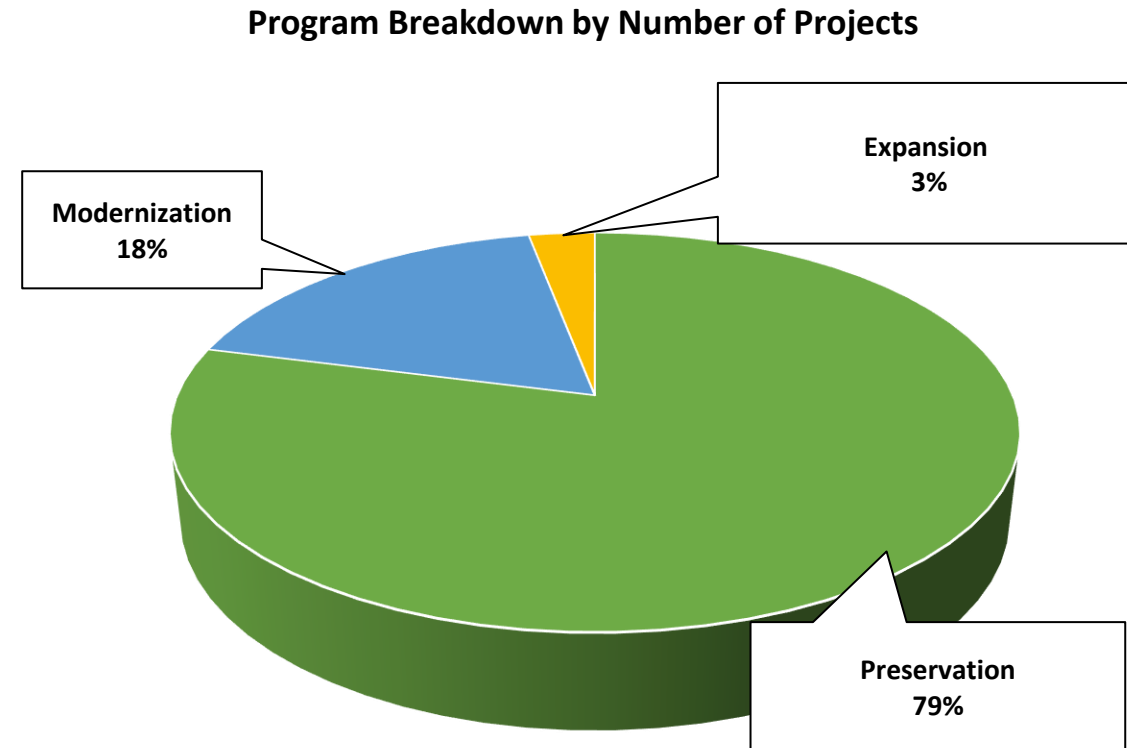
- A. Continued essential services to > 40% of County residents**
- B. 13 Water Systems**
 - Ground and Surface water
 - 8 towers and 9 reservoirs
- C. 3 Wastewater Reclamation Facilities**
 - 107 lift stations
 - 5 pump stations
 - 7 regional interceptor sewers
 - 7 sanitary sewer systems

PW Staffing

- **96 Full Time**
 - 52 union (Local 150)**
 - 44 non-union**
 - **3 Part-time**
 - 1 Engineering support**
 - 1 Accounting Specialist**
 - 1 Billing Specialist**
 - **2 Cristo Rey students**
- ❖ **90% of Water/Wastewater Operators are IEPA Licensed**
 - ❖ **Laboratory is IEPA and IDPH Certified for Water and Wastewater Testing**

Budget – FY'22

- Operation = \$37M
- Capital = \$18M
 - (5-yr CIP) = >\$64M
 - (10-yr CIP) = >\$187M
 - (Long Range CIP) - \$?
- Capital Improvement Plan
 - Modernization – 18%
 - Preservation – 79%
 - Expansion – 3%



FY'21 Capital Projects



Brooks Farm Tower Rehab.



Hawthorn Fashion Square – Water Main Replacement

FY'21 Capital Projects



Pekara – Watermain Rehab



SEC Line – Siphon Repair

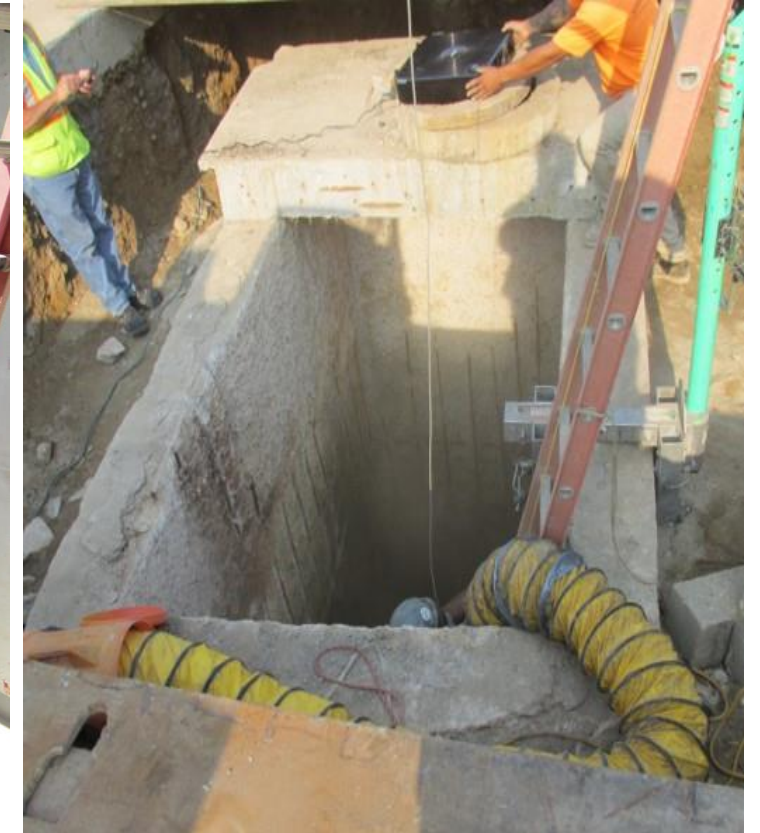
FY'21 Capital Projects



**Walmart
Fire loop Lining**



**Vernon Hills Water System
Electrical Upgrade**



**Wilson/Rollins
Drop Chamber & Sewer Lining**



FY'21 Projects & Stats

- ✓ 500 hydrants painted
- ✓ 1300 valves, hydrants, b-boxes inspected
- ✓ 97 main breaks
- ✓ 5500 JULIE Locates
- ✓ 2.1 billions of water produced
- ✓ 4.7 billion gallons of water treated
- ✓ 30 miles of sewer pipes cleaned
- ✓ 7 Sanitary Sewer Overflows
- ✓ 62,000 thousand lab analyses performed



FY'22 Capital Projects

- **Vernon Hills Reservoir**
- **Rt. 83 Force Main Rehabilitation**
- **Linden Road Force Main Rehabilitation**
- **Oak Terrace Water System Upgrade**
- **Baker Road Water Main Replacement**
- **Sunset Drive – Gravity Sewer Main Replacement**
- **Oakwood Road – Watermain Replacement**
- **Des Plaines River WRF – Polymer system Replacement**
- **New Century Town and Des Plaines River WRF – Bar Screen Replacement**
- **Force Main Replacement (Wellington Dr., South Cedar Crest Dr., Three Lakes Dr.)**
- **Lincolnshire Water Interconnection**

American Rescue Plan Act Projects

- ❖ Des Plaines River WRF – UV Installation
- ❖ Des Plaines River WRF – Disc Filter Installation
- ❖ Des Plainer River WRF – High Efficiency Blower Installation
- ❖ Mill Creek WRF – UV Installation
- ❖ Oak Terrace/West Oak Middle School – Water Systems Upgrade
- ❖ Highland Water System Upgrade
- ❖ Pekara Water System – Lake Michigan Water (new source)

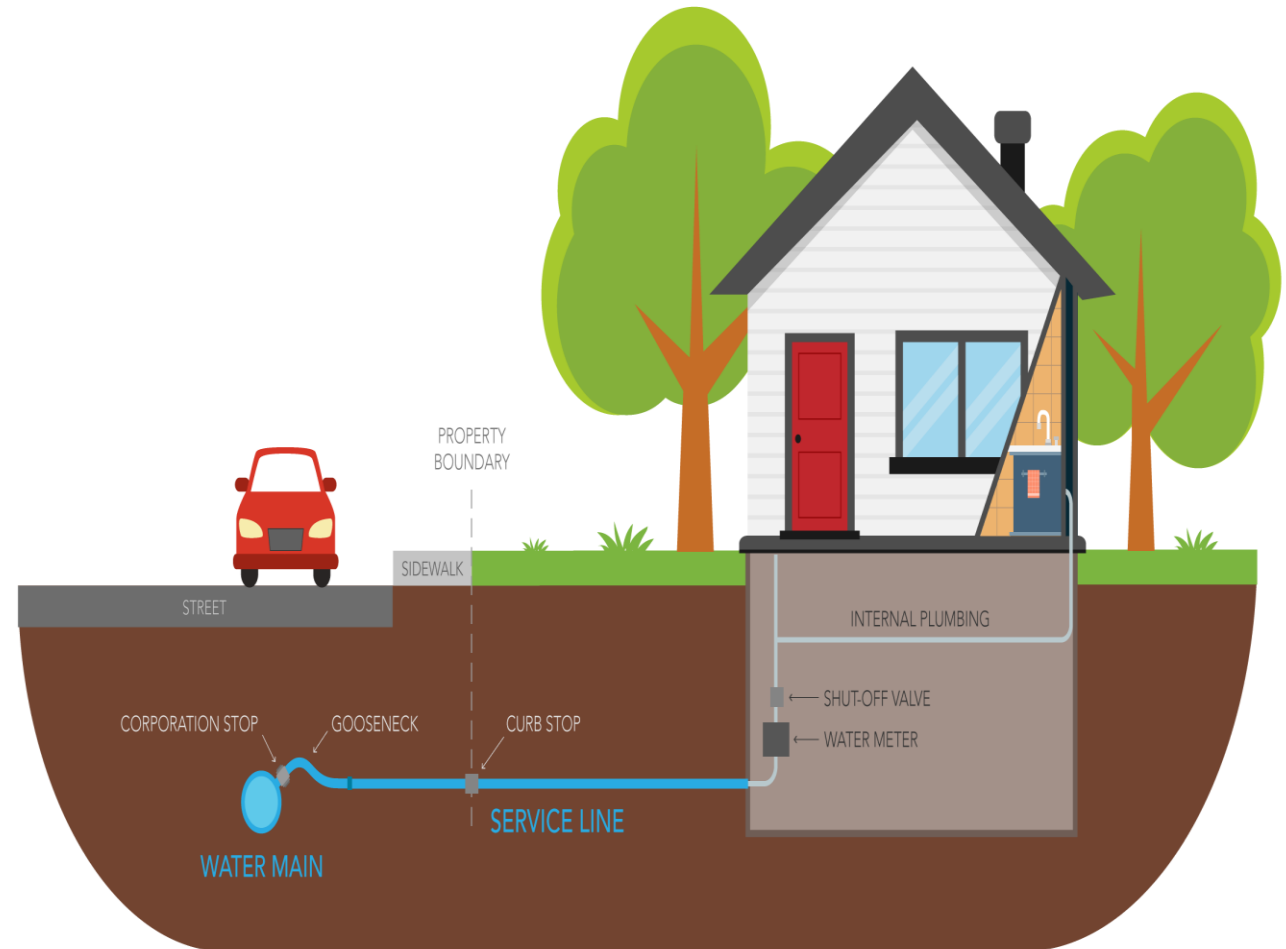
Regulations & Compliance

A. Wastewater

1. Pretreatment
2. Residual Chlorine
3. Nutrient Assessment Reduction Plan

A. Drinking Water

1. Lead Service Line (inventory)
2. PFAS (perfluoroalkyl substances)
3. Consumer Confidence Report





Questions?