Agenda

- Welcome and History of Evansville Water & Sewer Utility
- Introductions
- REFRESH Evansville
- Non-REFRESH Projects
- RENEW Evansville
- Non-IOCP Projects
- M/WBE Program Overview
- Purchasing and Local Requirements
- Open Question and Answer
Welcome and History of Evansville Water & Sewer Utility

OUR MISSION

The Evansville Water & Sewer Utility will provide the Evansville metro area with high quality, safe, dependable water and sewer service at rates which encourage economic development. The Utility will manage land and water resources to ensure quality for future generations.
Welcome and History of Evansville Water & Sewer Utility

ASSETS

- 60 MGD Water Treatment Plant serving 60,000 customers
- 1,000 miles of water main; 6,000 fire hydrants; 7 booster stations; 8 storage tanks
- 60% cast iron pipes with an average age of over 90 years
- 504 miles of sanitary sewer; 318 miles of combined sewer; 92 lift stations
- 18 MGD east & 21.7 MGD west wastewater treatment plants
Introductions

- Evansville Water & Sewer Utility
  - Allen Mounts - Director
  - Mike Labitzke - Deputy Director of Program Management Office
  - J.D. Sloan - Deputy Director of Engineering Services
  - Daniel Claspell - Deputy Director of CS, DP, and AMR
  - Ed Ziemer - Deputy Director of Utilities - Operations
  - Cris Cottom - Water Capital Projects Manager
  - Matt Montgomery - Sewer Capital Projects Manager
  - Pat Keepes - Water Superintendent
  - Harry Lawson - Wastewater Superintendent
  - Duane Gilles - Water Distribution Manager
  - Travis Hildebrandt - Collection Systems Manager
  - Steve Capin - Construction Manager
Overview

What is it? A decades-long program to replace our aging water mains and supporting infrastructure started in 2017

REFRESH Evansville includes:
- Replacement of aging water mains
- Improvements to booster stations
- Construction of new infrastructure
Background

AWWA Benchmarking Survey for Fiscal Year 2016:
The number of breaks per 100 miles of pipe ranged from three to 24 and the mean was nine.

Explanation of Need:

<table>
<thead>
<tr>
<th>Year</th>
<th># of Breaks</th>
<th>Rate (breaks/100 mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>481</td>
<td>47.9</td>
</tr>
<tr>
<td>2015</td>
<td>384</td>
<td>38.2</td>
</tr>
<tr>
<td>2016</td>
<td>257</td>
<td>25.6</td>
</tr>
<tr>
<td>2017</td>
<td>232</td>
<td>23.1</td>
</tr>
<tr>
<td>Jan 2018</td>
<td>159</td>
<td>Already 15.9!</td>
</tr>
</tbody>
</table>
Historical rate of water main replacement ≤ 0.5%
  - To replace 1,000 miles >>> 200+ years

REFRESH targets rate of replacement = 1.5%
  - To replace 1,000 miles >>> 67 years
Progress to Date

By the Numbers:

- 24 Projects currently scheduled for REFRESH totaling nearly 170,000 LF
  - 8 Project Bids Awarded in 2017 totaling nearly 40,000 LF
  - 16 Projects in Design in 2017
    - 11 Projects Bidding in 2018 totaling over 69,000 LF
    - 5 Projects Finishing Design in 2018 totaling over 60,000 LF to be bid in early 2019
## 2017 Construction

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Length (ft)</th>
<th>Size (in)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stringtown Road</td>
<td>1,880</td>
<td>16</td>
<td>Complete</td>
</tr>
<tr>
<td>Hi-Rail Pedestrian Trail</td>
<td>2,770</td>
<td>16</td>
<td>Complete</td>
</tr>
<tr>
<td>Western Terrace Phase II</td>
<td>6,460</td>
<td>8</td>
<td>Construction</td>
</tr>
<tr>
<td>Lant Circle / Bayard Park</td>
<td>4,670</td>
<td>8</td>
<td>Construction</td>
</tr>
<tr>
<td>Weinbach Ave, Lloyd to Pollack</td>
<td>13,670</td>
<td>12</td>
<td>Construction</td>
</tr>
<tr>
<td>Keck Ave, Grand to Stringtown</td>
<td>2,370</td>
<td>12</td>
<td>Construction</td>
</tr>
<tr>
<td>Heidelbach Ave, Morgan to Olmstead</td>
<td>6,300</td>
<td>12</td>
<td>Construction</td>
</tr>
<tr>
<td>St. James, Morgan to Keck</td>
<td>1,670</td>
<td>8</td>
<td>Construction</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>39,790</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Design Update

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Length (ft)</th>
<th>Size (in)</th>
<th>Status</th>
<th>Bid Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. George and Melody Hill</td>
<td>14,540</td>
<td>8</td>
<td>Awaiting Award of Contract</td>
<td>Jan 2018</td>
</tr>
<tr>
<td>West Mill Road and Mohr Road</td>
<td>3,500</td>
<td>12</td>
<td>Bidding</td>
<td>Feb 2018</td>
</tr>
<tr>
<td>Green River Road Phases VI and VII</td>
<td>10,600</td>
<td>12</td>
<td>Bidding</td>
<td>Feb 2018</td>
</tr>
<tr>
<td>Vanderburgh Neighborhood Phases I and II</td>
<td>8,800</td>
<td>8</td>
<td>Design</td>
<td>March 2018</td>
</tr>
<tr>
<td>Lodge Ave, Walnut to Riverside</td>
<td>9,500</td>
<td>12</td>
<td>Design</td>
<td>June 2018</td>
</tr>
<tr>
<td>Mt. Auburn Road, Optimist to Buchanan</td>
<td>2,600</td>
<td>8</td>
<td>Design</td>
<td>June 2018</td>
</tr>
<tr>
<td>Walcott, West of Van Ness</td>
<td>500</td>
<td>8</td>
<td>Design</td>
<td>Aug 2018</td>
</tr>
<tr>
<td>Broadway Ave, Red Bank to Schutte Road, Frey Road</td>
<td>13,500</td>
<td>12</td>
<td>Design</td>
<td>Aug 2018</td>
</tr>
</tbody>
</table>

CONTINUED ON NEXT SLIDE
<table>
<thead>
<tr>
<th>Project Name</th>
<th>Length (ft)</th>
<th>Size (in)</th>
<th>Status</th>
<th>Bid Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eichel, US 41 to Fares</td>
<td>1,100</td>
<td>8</td>
<td>Design</td>
<td>Aug 2018</td>
</tr>
<tr>
<td>Washington and Second</td>
<td>2,300</td>
<td>8</td>
<td>Planning</td>
<td>Oct 2018</td>
</tr>
<tr>
<td>New Harmony Road, Allens Lane to Harmony Way</td>
<td>2,400</td>
<td>12</td>
<td>Design</td>
<td>Oct 2018</td>
</tr>
<tr>
<td>Kansas Road Relocation, St. Petersburg to I-69</td>
<td>6,200</td>
<td>12</td>
<td>Planning</td>
<td>Early 2019</td>
</tr>
<tr>
<td>Sweetser Rotherwood Area</td>
<td>15,800</td>
<td>8</td>
<td>Design</td>
<td>Early 2019</td>
</tr>
<tr>
<td>President's Neighborhood East/West/Central</td>
<td>20,400</td>
<td>8</td>
<td>Design</td>
<td>Early 2019</td>
</tr>
<tr>
<td>Harmony Way, Franklin Heights Neighborhood</td>
<td>9,600</td>
<td>12</td>
<td>Design</td>
<td>Early 2019</td>
</tr>
<tr>
<td>Hogue Road, Red Bank to Williams</td>
<td>8,500</td>
<td>8</td>
<td>Design</td>
<td>Early 2019</td>
</tr>
</tbody>
</table>

130,000 FEET CURRENTLY IN DESIGN
Looking to 2019-2021

By the Numbers:

- Over 45 projects proposed for REFRESH totaling nearly 238,000 LF
  - 11 Projects in 2019 totaling over 80,000 LF
  - 20 Projects in 2020 totaling over 78,000 LF
  - 15 Projects in 2021 totaling nearly 80,000 LF

- Proposed REFRESH program costs of $100,000,000+ for 2019-2021
REFRESH Spending - 5-Year Look Ahead by Quarter

- Q1 2018: $10
- Q2 2019: $15
- Q3 2019: $5
- Q4 2019: $10
- Q1 2020: $5
- Q2 2020: $10
- Q3 2020: $5
- Q4 2020: $10
- Q1 2021: $5
- Q2 2021: $10
- Q3 2021: $5
- Q4 2021: $10
- Q1 2022: $5
- Q2 2022: $10
- Q3 2022: $5
- Q4 2022: $10
- Q1 2023: $5
- Q2 2023: $10
- Q3 2023: $5
- Q4 2023: $10
REFRESH Projects Bidding - 5-Year Look Ahead by Quarter

<table>
<thead>
<tr>
<th>Year</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
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<tr>
<td>2019</td>
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<tr>
<td>2020</td>
<td>7</td>
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</tr>
<tr>
<td>2021</td>
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<tr>
<td>2022</td>
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<tr>
<td>2023</td>
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</tr>
</tbody>
</table>
Non-REFRESH Water Projects

What is it? Continued capital projects for water projects at either the water treatment plant, existing booster stations, or infrastructure to supply wholesale customers

**Non-REFRESH Water Projects** include:
- Improvements to booster stations and storage tanks
- Water treatment plant upgrades
- Construction of new infrastructure
Non-REFRESH Water Projects

By the Numbers:

- Over 44 projects proposed for Non-REFRESH Water Projects
  - 12 WTP Capital Projects with estimated cost of nearly $25M
  - 18 WTP Maintenance Projects with estimated cost of nearly $10.5M
  - 4 Booster Station Maintenance Projects with estimated cost of $2.5M
  - Potential 10 Booster/Distribution Projects to increase wholesale customer demands with estimated cost of $30M
  - Major rehabilitation or replacement of the WTP with estimated cost of $50-100M

- Proposed Non-REFRESH costs of $118M to $168M+ for 2019-2021
Background

- Evansville is a combined sewer system community
  - Approximately 2 billion gallons of combined sanitary and storm water can escape the system in a year through 22 combined sewer outfalls into the Ohio River and Pigeon Creek
- 2010 - Evansville and the EPA and IDEM enter into an agreement to address the issue
- 2011 - Evansville initiates development of Integrated Overflow Control Plan (IOCP)
- 2013 - Evansville submits IOCP to the EPA and IDEM
- 2014 - The initial IOCP is rejected and the parties enter into negotiations
- 2016 - All parties come to a final agreement for design, construction, and monitoring improvements to the sewer system to reduce the frequency and volume of combined sewer overflows in Evansville
- 2016-2040 - Implementation of the IOCP program of projects, collectively called Renew Evansville
Overview

What is it? Evansville’s largest investment in clean water infrastructure that will significantly improve the sewer system with a 24-½ year, $729 M plan

RENEW Evansville will include:

- Upgrades to Existing Wastewater Treatment Facilities
  - Construction of New In-System Storage Facilities
    - Sewer Separation Projects
      - Combined Sewer Overflow Treatment Facilities
        - Inflow and Infiltration Reduction Projects
      - Sanitary Sewer Capacity Projects
Progress to Date

14 projects scheduled in 2018-2019

10 upcoming Bid Advertisements before 2018 year end

On-going Projects

- Cass-Adams Relief Sewer (Under Construction)
  - North Park I/I Reduction (Design Complete)
    - West Plant Upgrades (In Design)
      - East Plant Effluent Pump Station (In Design)
      - East Plant Upgrades (In Design)
    - Waterworks Road Relocation (In Design)
IOCP Projects Bidding - 5-Year Look Ahead by Quarter
### Upcoming Projects

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Estimated Cost</th>
<th>Bid Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Park Rehab Phase 2</td>
<td>$1.7 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>West Collection Real Time Controls</td>
<td>$1.1 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>Akin Park Storm Sewer</td>
<td>$3.0 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>Waterworks Road Relocation</td>
<td>$2.3 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>(4) East WWTP Effluent Sunrise Station</td>
<td>$20.0 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>West WWTP Capacity Expansion</td>
<td>$32.2 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>West WWTP Storage Basin</td>
<td>$30.4 M</td>
<td>4th Qtr 2018</td>
</tr>
<tr>
<td>(3) East WWTP Effluent Sunrise Station</td>
<td>$14.0 M</td>
<td>4th Qtr 2019</td>
</tr>
<tr>
<td>East WWTP Capacity Upgrades</td>
<td>$40.0 M</td>
<td>4th Qtr 2019</td>
</tr>
<tr>
<td>Millersburg/Hwy 41 Rehab</td>
<td>$0.6 M</td>
<td>4th Qtr 2021</td>
</tr>
<tr>
<td>Wetland Pump Station</td>
<td>$61 M</td>
<td>4th Qtr 2021</td>
</tr>
<tr>
<td>108” Wetland Conveyance Pipe</td>
<td>$7.5 M</td>
<td>4th Qtr 2021</td>
</tr>
<tr>
<td>Lloyd Basin Rehab</td>
<td>$2.6 M</td>
<td>4th Qtr 2021</td>
</tr>
<tr>
<td>E11 Basin Rehab</td>
<td>$4.4 M</td>
<td>4th Qtr 2022</td>
</tr>
<tr>
<td>Wetland Treatment System</td>
<td>$14.0 M</td>
<td>4th Qtr 2022</td>
</tr>
<tr>
<td>Wetland Treatment Disinfection</td>
<td>$8.0 M</td>
<td>4th Qtr 2022</td>
</tr>
</tbody>
</table>
Non-IOCP Projects

What is it? Collection system and Wastewater Treatment Projects not included in Renew Evansville

Non-IOCP Projects will include:

- 32 Lift Stations
  - 7 Gravity Extensions / Upgrades
    - Annual Sewer Lining and Sewer Repair
    - Miscellaneous Plant Work
    - Miscellaneous Collection System Projects, Vortex, and STEP
  - New Testing Lab
Non-IOCP Projects Bidding - 5-Year Look Ahead by Quarter
## Non-IOCP Upcoming Projects

<table>
<thead>
<tr>
<th>Major Projects</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valley Downs Interceptor</td>
<td>$ 3 M</td>
</tr>
<tr>
<td>Wansford Lift Station</td>
<td>$ 30 M</td>
</tr>
<tr>
<td>East/West Secondary Clarifiers</td>
<td>$ 2 M</td>
</tr>
<tr>
<td>West Odor Control Carbon Filter</td>
<td>$ 1 M</td>
</tr>
</tbody>
</table>
Total Spending - 5-Year Look Ahead by Quarter

- Year:
  - 2018
  - 2019
  - 2020
  - 2021
  - 2022
  - 2023

- Quarter:
  - Q1
  - Q2
  - Q3
  - Q4

- Categories:
  - REFRESH Projects
  - RENEW Projects
  - Non-IOCP Projects

Spending (in millions)
Total Projects Bidding - 5-Year Look Ahead by Quarter

Number of Projects

<table>
<thead>
<tr>
<th>Year</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>2019</td>
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<td>2020</td>
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<td>2021</td>
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<td>2022</td>
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<tr>
<td>2023</td>
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</tr>
</tbody>
</table>

Legend:
- REFRESH Projects
- RENEW Projects
- Non-IOCP Projects
Minority / Women Business Enterprise Program Overview

- Participation Goals: 12% MBE and 7% WBE participation
- Meet with Compliance Officer 3 days prior to Bid Opening if unable to meet goals
- Program Requirements and Forms A through E provided with Bid Documents
- Self Performance Clause (Elimination)
- City of Evansville will engage MBE/WBE participation of all phases of every project that is bid (Design, Professional Services, Construction)
- What is Good Faith Effort
- Questions / Discussion Regarding M/W BE Program
Purchasing and Local Requirements

- Contractors and Sub-Contractors must be licensed in Evansville
- Responsible Bidder Ordinance (Evansville Municipal Code 3.95.040)
  - Form included with Bidding Documents:

  City of Evansville, Indiana

  RESPONSIBLE BIDDING ORDINANCE FORM
  Municipal Code 3.95.040

  All bids submitted in the amount of $150,000.00 or more shall comply with the requirements of Evansville Municipal Code (EMC) 3.90.040 ("Responsible Bidding Ordinance"). It is the bidding contractor's sole responsibility to review the Responsible Bidding Ordinance and provide all required documentation, statements and information no later than the public bid opening. Failure to comply with the Responsible Bidding Ordinance will result in rejection of the contractor's bid.

  All bidders shall provide a written list that discloses the name, address, and type of work for each first-tier subcontract from which the bidder has accepted a bid and/or intends to hire on any part of the public work project, including individuals performing work as independent contractors. In accordance with EMC 3.90.110, all bidders shall adhere to City policy and procedures pertaining to minority-owned business and women-owned business utilization. Submittal requirements of
Open Question and Answer
Thank you for your time