CONSENT DECREE REMEDIAL MEASURES PLAN UPDATE

Environmental Quality & Public Works
Committee
January 19, 2021





AGENDA

- Overall status (physical and cost)
- Recent Wins
 - UK Trunks
 - Upper Cane Run WWS
- Near-term challenges
 - Schedule modification requests
 - Specific projects for 2021
- Questions



STATUS

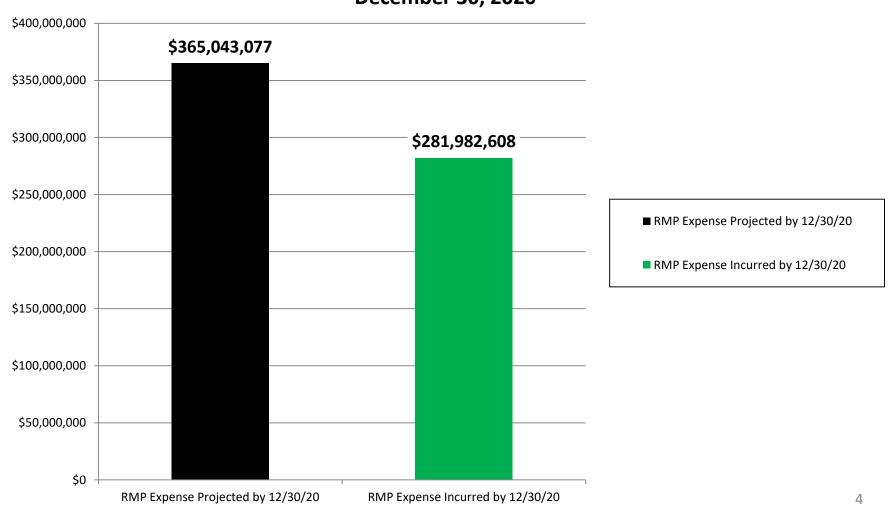
Complete / Active / Pending Projects 2020 Q3 Report

| Projects | Complete | Design/ Construction | Pending | Total |
|---------------------------------------|----------|-------------------------|---------|-------|
| Conveyance/Storage ¹ | 40 | 13 | 33 | 86 |
| WWTP Reliability Upgrade ² | 18 | 5 | 15 | 38 |
| Totals | 58 | 18 | 48 | 124 |

1/2 Actual number of projects fluid due to on-going schedule modification discussions with Kentucky and EPA.



Consent Decree Sanitary Capital Expense Comparison to Date Contractual Projection vs. Contractual Actual December 30, 2020





RECENT WINS

UK Trunk Sewers (Bolivar, S. Upper, AOC & Euclid): finished ahead of schedule, under budget and award winning!



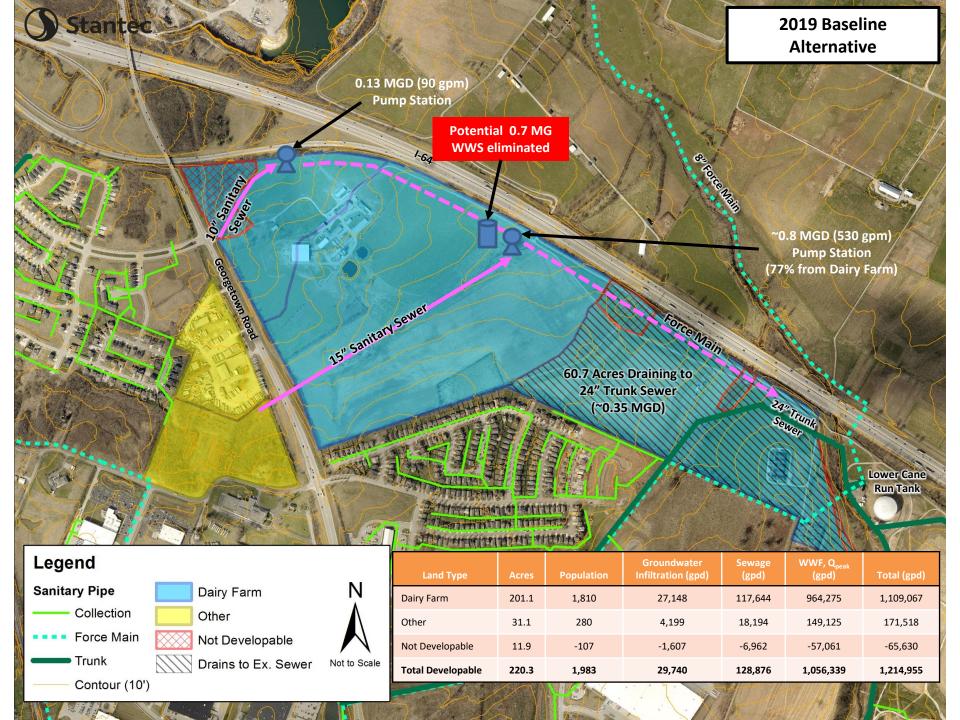




RECENT WINS

Design modification of Upper Cane Run WWS
 Tank <u>eliminated</u> the need for a separate storage tank on the UK Dairy Farm.

 Upper Cane Run tank volume increased from 800,000 gallons to 2,000,000 gallons.





NEAR-TERM CHALLENGES Schedule Modification Requests

- Three requests submitted in 2020.
- Most recent request under regulatory review based on presentation made January 8, 2021.
- Other two requests have been approved by EPA and Kentucky. Most significant approval affected 2022 – 2024 RMP capital construction on / around Overbrook Farm.

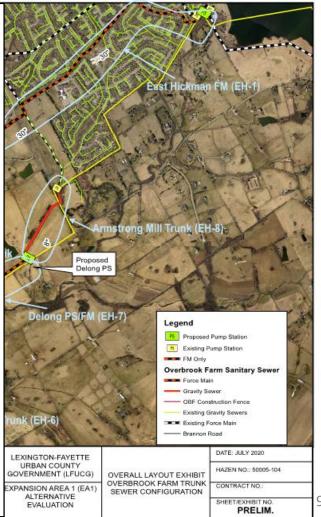


Original OBF and EH Force Main RMP Projects "thru the farm"



Eight (8) RMP Projects:

- EH-1 East Hickman **Force Main**
- EH-4 Overbrook Farm **Force Main**
- EH-5 Overbrook Farm **Pump Station**
- EH-6 Overbook Farm Trunk
- EH-7 Delong Road **Pump Station and Force** Main
- EH-8 Armstrong Mill Trunk
- EH-9 Hartland 2 and 3 Trunk
- EH-10 Hartland 1 Trunk



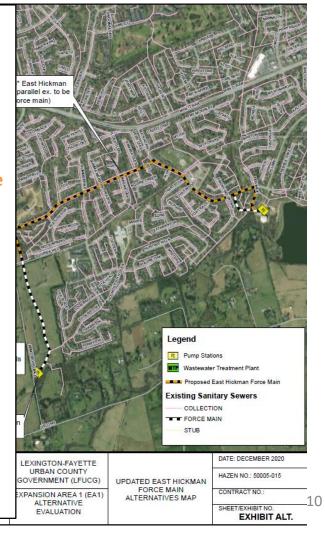


Amended OBF and EH Force Main RMP Projects "around the farm"



Six (6) RMP Projects:

- Re-aligned EH-1 East Hickman Force Main
- East Hickman Pump
 Station Pump Upgrade
- Armstrong Mill Trunk,
 Pump Station and Force
 Main
- Modified Hartland 1
 Pump Station
- Modified Hartland 2 Pump Station
- New Hartland 3 Pump Station





PROS AND CONS "around the farm"

PROS

- Improved control over schedule creep and cost escalation.
- Lower total project
 estimated cost
 compared to updated
 "thru the farm"
 estimates.

CONS

- Three Hartland pump stations remain until Overbrook develops.
- Construction impacts to Hartland, Kenesaw
 Village and Canterfield neighborhoods.



THE BOTTOM LINE ESTIMATES Overbrook Schedule Modification

THRU THE FARM

- 2012 RMP Total Cost Estimate – \$28.75 M
- 2016 Revised Cost Estimate – \$49 M
- May 2020 Updated
 Cost Estimate \$54 M

AROUND THE FARM

(August 2020 Estimate) \$20.7 M

ADDITIONAL LFUCG COST WHEN THE FARM DEVELOPS

(August 2020 Estimate)

\$11.1 M



New East Hickman / Hartland Area Project Schedule

| Group | Sewer-shed | No. | Project Name | Preliminary Design | Complete Design | Award Contract | Begin Construction | Complete Permitting | Complete Construction |
|---------|--------------|-----|-------------------------------|-----------------------|--------------------|-------------------|-----------------------|------------------------|--------------------------|
| Group 1 | East Hickman | 1 | East Hickman FM | 2020 | 2022 | 2022 | 2022 | 2022 | 2024 |
| | | 2.b | East Hickman PS, Phase 2 | NA | 2022 | 2022 | 2023 | 2023 | 2024 |
| | | 16 | Armstrong Mill PS Replacement | 2021 | 2022 | 2023 | 2023 | 2023 | 2024 |
| | | 17 | Hartland 1 PS Upgrade | 2021 | 2022 | 2023 | 2023 | 2023 | 2024 |
| | | 18 | Hartland 2 PS Upgrade | 2021 | 2021 | 2022 | 2022 | 2022 | 2023 |
| | | 19 | Hartland 3 PS Upgrade | 2021 | 2021 | 2022 | 2022 | 2022 | 2023 |
| | Ш | | | | | | | | |
| | | | | | | | | | |



NEAR-TERM CHALLENGES 2021 CONSTRUCTION

- Upper Cane Run WWS Tank
- Wolf Run Trunks D&E
- Southeastern Hills Trunk
- Liberty Road Trunk
- New Circle Trunk A&B
- West Hickman WWTP WWS Tank P2



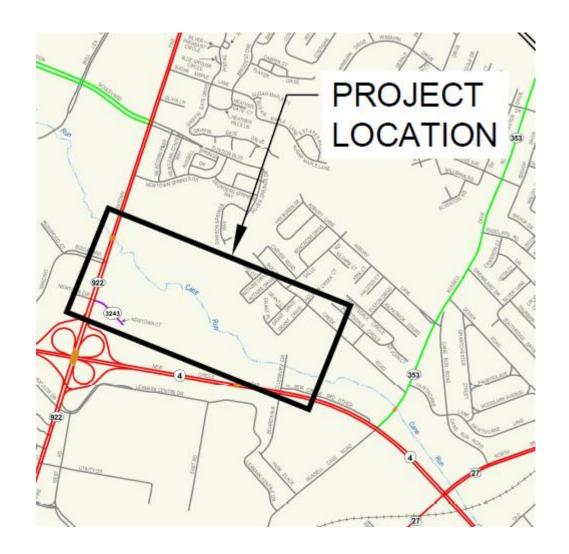
<u>Project Name</u>: Upper Cane Run 2.0 MG Wet Weather Storage Tank

Project Schedule: 1/1/21 to 6/30/22

Estimated Cost: \$6.55 M

Council District: 1st

Citizen Impact: Low





Project Name:

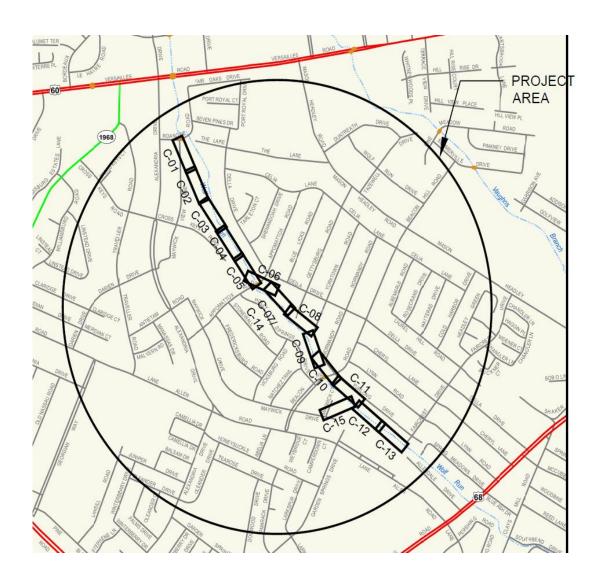
Wolf Run Trunk Sewers D&E

Project Schedule: 3/1/21 to 12/31/22

Estimated Cost: \$6.5 M

Council District: 11th

Citizen Impact: High





<u>Project Name</u>:

Southeastern Hills Trunk Sewer

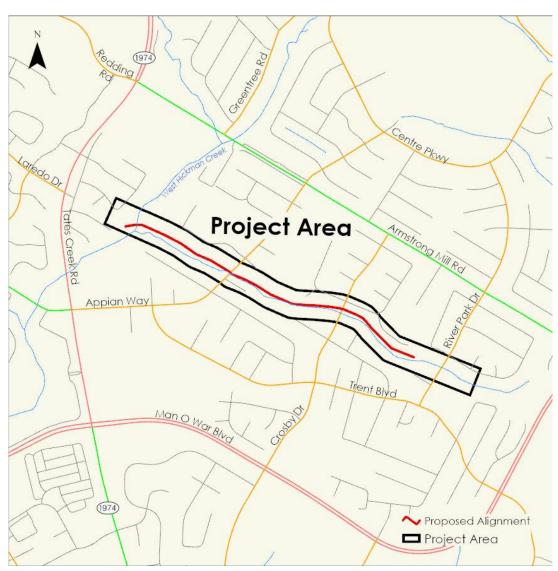
Project Schedule: 3/1/21

to 10/31/22

Estimated Cost: \$3.8 M

Council District: 8th

Citizen Impact: High





Project Name:

Liberty Road Trunk Sewer

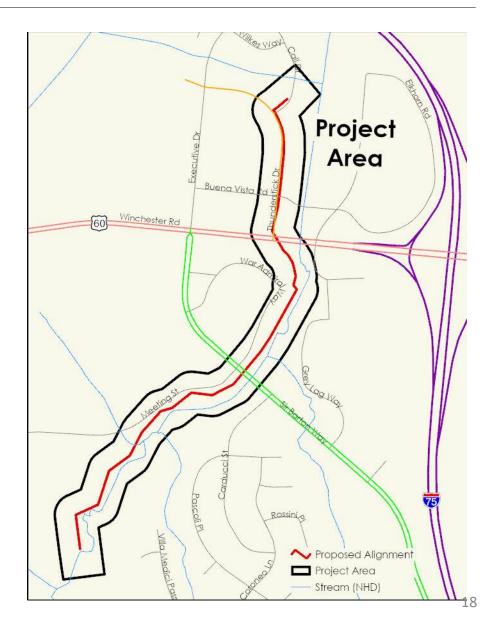
Project Schedule: 6/1/21

to 10/31/22

Estimated Cost: \$3.9 M

Council District: 6th

<u>Citizen Impact</u>: Medium





Project Name:

New Circle Trunk A&B Sewer

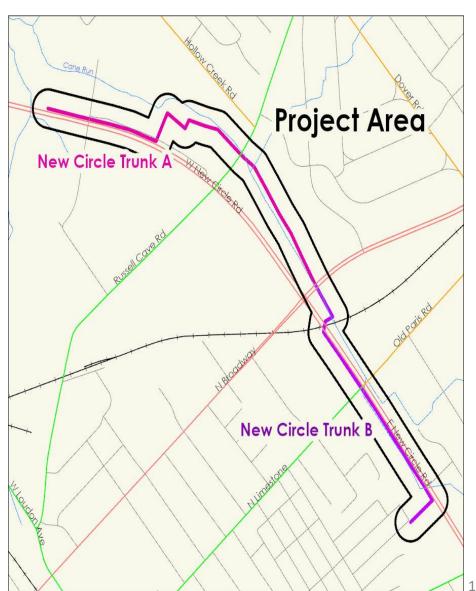
Project Schedule: 11/1/21

to 5/1/23

Estimated Cost: \$7.5 M

Council District: 1st & 6th

Citizen Impact: High





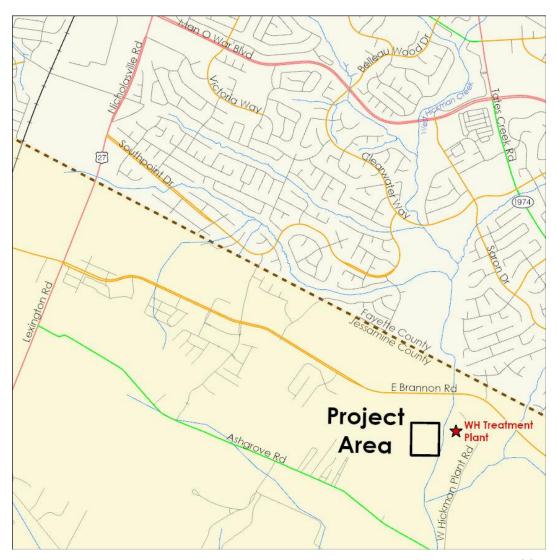
Project Name: West Hickman WWTP 18.0 MG Wet Weather Storage Tank

Project Schedule: 7/1/21 – 6/30/23

Estimated Cost: \$21 M

Council District: 12th

Citizen Impact: Low





SUMMARY

Overall status:

- Outlook remains positive.
- 2020 had some wins but also presented challenges that undermined momentum.

Near-term challenges

- 2021 projects in que but pace of future project production still at risk.
- Even with approved schedule modifications, full compliance must be met by 12/31/26.
- Math says eight projects per year for another six years.



Questions

