

- D. Seigny, Chair**
- T. Morton, Vice-Chair
- J. Brown
- T. Eblen
- E. Curtis
- L. Sheehan
- L. Higgins-Hord
- J. Hale
- A. Beasley
- H. Boone



Environmental Quality and Public Works Committee
Tuesday, March 3, 2026
1:00 P.M.

AGENDA

I.	Approval of February 3, 2026 Committee Summary	[Seigny]	(1-2)
II.	Sewer Odor Control Update	[Reynolds/Martin]	(3-19)
III.	Energy Initiatives Update	[Seigny/Bush]	(20-28)
IV.	Engineering Manuals Update	[Seigny/Burton]	(29-44)
V.	Items Referred to Committee	[Seigny]	(45)

[Sponsor/Presenter]

2026 Meeting Schedule

February 3	August 18
March 3	September 15
May 12	October 13
June 16	November 17

Environmental Quality and Public Works committee to which shall be referred matters relating to the department of Environmental Quality and Public Works and its divisions, including capital improvement projects and any related partner agencies.”- Council Rules & Procedures, Section 4.102 (3).



Environmental Quality & Public Works (EQPW) Committee

February 3, 2026

Summary and Motions

Chair Dave Seigny called the meeting to order at 1:00 p.m. Committee Members James Brown, Tyler Morton, Tom Eblen, Emma Curtis, Liz Sheehan, Lisa Higgins-Hord, Joseph Hale, Amy Beasley, and Hil Boone were in attendance as voting members. Vice Mayor Dan Wu and Council Member Shayla Lynch were present as non-voting members.

Chair Seigny began the meeting by announcing that he would serve as the committee's chair. Chair Seigny asked Councilmember Morton to serve as his vice-chair, and Councilmember Morton accepted.

I. APPROVAL OF NOVEMBER 18, 2025 COMMITTEE SUMMARY

Motion by Morton to approve the November 18, 2025 Environmental Quality & Public Works Committee Summary. Seconded by Higgins-Hord. Motion passed unanimously.

II. SEWER CLEANOUT REIMBURSEMENT PROGRAM

Charlie Martin, Division of Water Quality Director, delivered a presentation on the Sewer Cleanout Installation Cost Share Pilot Program. The problem stems from many older Lexington homes not having properly located two-way sewer cleanouts. Without these, it is difficult to quickly diagnose sewer stoppages or determine whether failures are in the public main or the private service lateral. Sewer pipe failures can cause backups and overflows, affecting both the public infrastructure and private property.

Two-way cleanouts allow the entire service lateral to be cleaned from outside the home. It reduces the cost of repeated service calls and disputes over responsibility (public or private). The downside is the installation costs, which would fall to the property owner unless assistance is provided, and the excavation required for installation can be disruptive. Martin noted that homes built in the last 15 years already require two-way cleanouts, but older homes would require retrofits on private property, which is the primary barrier.

A conceptual overview regarding a proposed pilot reimbursement program modeled after the existing sidewalk replacement program was provided. Conceptual steps include:

- Verifying the need and guiding property owners
- Providing a contractor list and reimbursement information
- The property owner will complete the installation
- Division of Water Quality would reimburse based on the criteria

Martin has considered scaling this program based on income, but he needs to demonstrate the need. It is important to set a threshold to prioritize households most in need, and we need to determine whether this program will require property ownership rather than investment/rental property.

Martin estimates the cost would be approximately \$3,000–\$8,000. Of 135 sewer cleanouts, he estimates that 76-80% lack two-way capability. He noted that this cost would include returning everything to its original state after installation. Regarding funding for this program, Martin believes they can establish the

fundamentals and proceed with the pilot once funding is secured. He estimates the pilot program will require approximately \$50,000, depending on the number of eligible properties, and that funding could be drawn from the Sanitary Sewer Fund. The pilot will help us determine actual costs. No action was taken on this item.

III. LEXTRAN SERVICES AND ENVIRONMENTAL IMPACTS

Fred Combs, General Manager of Lextran, provided an update on services, recent accomplishments, environmental progress, and upcoming priorities. The focus is on service delivery, equity access, and sustainability as Lextran prepares for FY2027 planning and funding decisions. Key accomplishments include completing the Transit Center renovation and nearing completion of strategic planning. Lextran released an RFP for micro transit, secured \$6.1M in federal funding for new vehicles, and created a Mobility Manager role to coordinate non-core mobility services. The agency also adopted the 2025–2028 Title VI plan and implemented multiple service improvements throughout 2025.

Most core routes operate about every 35 minutes, while nights and weekends operate about every 70 minutes. While service reliability has stabilized, some geographic service gaps still exist. Pilot programs such as micro transit and *LexRide* circulator services will require sustainable funding to continue in the long term. Fixed-route service remains the backbone of the system and carries most trips.

LexRide is a partnership between Lextran, LFUCG, and downtown organizations. It will connect employees, residents, and visitors to key downtown districts. Service will run Thursday through Saturday evenings from April through October 2026, with a \$1 fare and tap-to-pay capability. This pilot will help evaluate the demand for evening mobility in the downtown area. *Micro transit* is designed as an affordable, ADA-accessible, shared curb-to-curb service. It fills service gaps where fixed-route service is less efficient. The service zone includes approximately 12,000 households and 26,700 residents. The area is about 55% minority, includes many lower-income households, and has a higher percentage of car-free households than the city average. Vendor proposals are due February 13, with the contract anticipated to be awarded in March and the launch targeted for summer to early fall 2026. *Bus Rapid Transit (BRT)* is long-term, high-capacity transit that operates like light rail using buses. It was identified in earlier Nicholasville Road studies and reinforced by *Imagine Nicholasville Road* work and the Comprehensive Plan. State modeling in 2025 confirmed feasibility, positioning Lexington to pursue federal capital funding.

Lextran continues transitioning to cleaner fuels. About 76% of the fleet is now CNG, hybrid, or electric. Seven additional CNG buses are planned for procurement. The agency is also installing solar lighting at bus stops to improve safety and reduce energy use. Lextran is focused on balancing reliability, equity, environmental responsibility, and long-term system growth. Continued partnership with LFUCG and the community will be essential to sustaining service and expanding mobility options. No action was taken on this item.

IV. ITEMS REFERRED TO COMMITTEE

Motion by Sevigny to remove the following items from the committee: *Haley Pike Solar Project Update, Review of Water Quality Management Fee Incentive Grants, and Mint Lane Pump Station*. Seconded by Sheehan. Motion passed unanimously.

Motion by Sevigny to remove *Lextran Services and Environmental Impacts* from the committee. Seconded by Curtis. Motion passed unanimously.

The meeting adjourned at 2:01 pm.

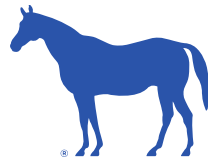
SEWER ODOR CONTROL UPDATE 2026

Charles H. Martin, P.E., Director, DWQ

Rick Bowman, Odor Control Manager, DWQ

Environmental Quality & Public Works Committee

March 3, 2026



LEXINGTON



PRIMARY FOCUS AREAS FOR 2025

1. Design and construction of infrastructure that limits the release of odors.
2. Pilot testing of chemical applications that limit the formation of odor causing compounds.



2024 testing led to the development of program guidance documents for each treatment plant.

The recommendations contained in these guidance documents are the driver of decisions and actions currently underway.

Lexington-Fayette Urban County Government



FINAL

**TOWN BRANCH WWTP WARM WEATHER
ODOR TESTING AND MODELING REPORT**

Prepared by



Webster Environmental Associates, Inc.
13121 Eastpoint Park Blvd, Suite E
Louisville, KY 40223
(502) 253-3443

March 4, 2025



Town Branch WWTP

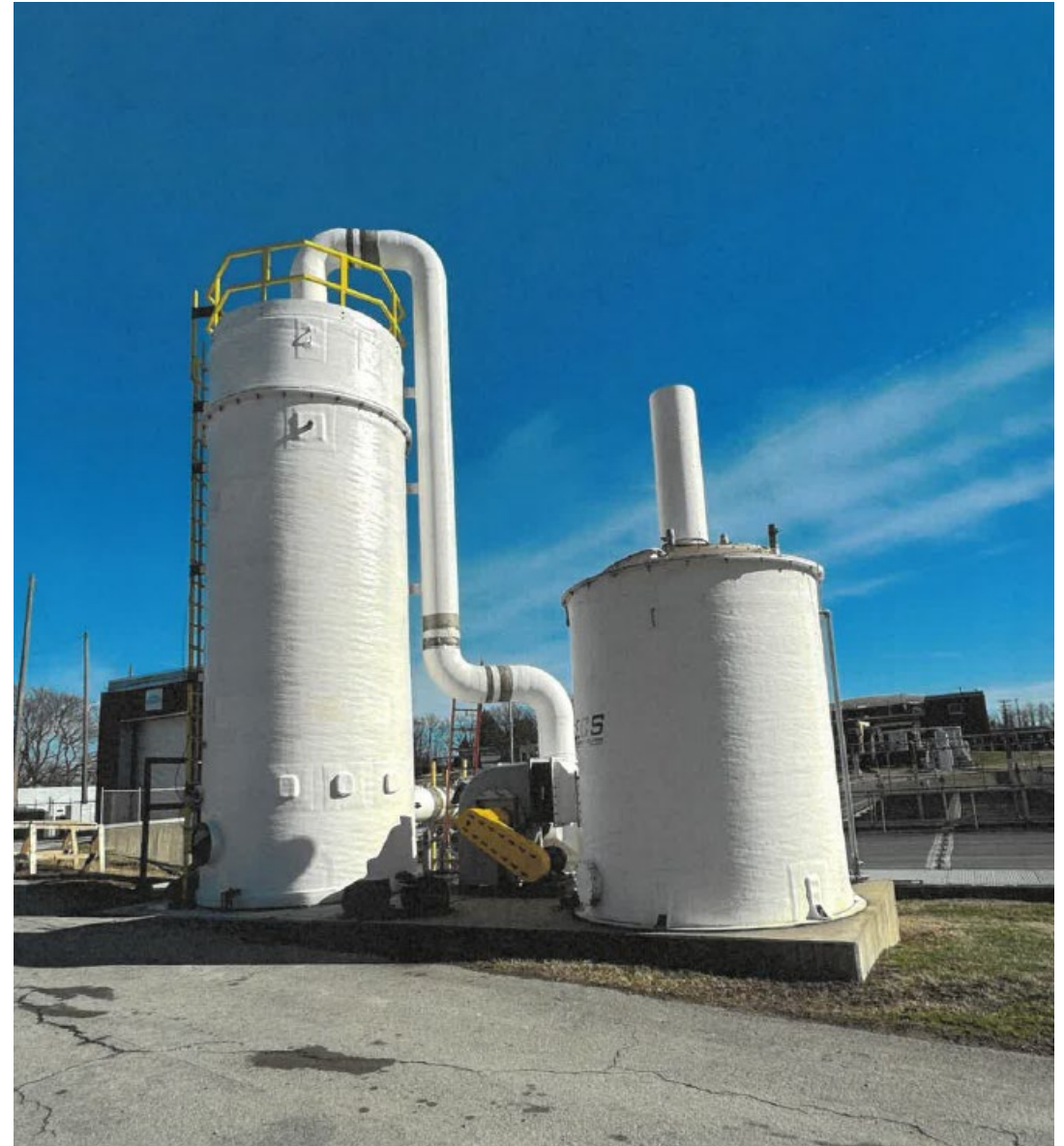
TABLE 6- ODOR CONTROL COST ESTIMATES

	Odor Control System 1	Odor Control System 2	Odor Control System 3	Odor Control System 4
	Airflow: 9,600 cfm	Airflow: 6,000 cfm	Airflow: 39,000 cfm	
	Sources: North and South Primary Clarifiers (Covered Channels)	Sources: Headworks and Grit Effluent Channels	Sources: Dewatering Facility (Centrifuge Room & Truck Bay)	Sources: North and South Primary Clarifiers (Uncovered Surfaces)
	Bioscrubber followed by Carbon	Bioscrubber or Biofilter	Carbon	Chemical Addition
Capital Costs				Unknown Costs Further Study Needed
Odor Control System Equipment	1,100,000	700,000	1,200,000	
Equipment Installation (assume 35%)	385,000	245,000	420,000	
Foul Air Duct and Supports (assumes \$75/cfm up to 10,000 cfm and \$40/cfm >10,000 cfm)	100,000	450,000	1,560,000	
Structural Pads (lump sum)	15,000	30,000	60,000	
Site/Civil (lump sum)	100,000	100,000	100,000	
Electrical (lump sum)	52,000	50,000	100,000	
Replace Media in Existing Carbon Systems (assume \$125/cu ft)	93,000	0	0	
Contractor Mobilization/Demobilization (lump sum)	20,000	20,000	20,000	
Contractor Overhead and Profit (15%)	280,000	144,000	311,000	
Contingency (30%)	644,000	261,000	566,000	
Total Capital Costs	\$2,789,000	\$2,000,000	\$4,337,000	

Note- Estimated capital costs are study level only.



- **Two stage unit – bio-scrubber followed by activated carbon.**
- **Two different units – one for north bank, one for south bank.**
- **Capital investment - \$1.6 M**





Similar approach applied at West Hickman with site specific recommendations.

Lexington-Fayette Urban County Government



FINAL

**WEST HICKMAN WWTP WARM WEATHER
ODOR TESTING AND MODELING REPORT**

Prepared by



Webster Environmental Associates, Inc.
13121 Eastpoint Park Blvd, Suite E
Louisville, KY 40223
(502) 253-3443

March 4, 2025



West Hickman WWTP

TABLE 6- ODOR CONTROL COST ESTIMATES

	Odor Control System 1	Odor Control System 2A	Odor Control System 2B	Odor Control System 3	Odor Control System 4
	Airflow: 4,500 cfm + 8,500 cfm	Airflow: 73,500 cfm	Airflow: 3,000 cfm	Airflow: 28,000 cfm	Airflow: 10,000 cfm
	Sources: ASH Tanks and Sludge Tanks	Sources: Headworks	Sources: Grit Effluent Tanks and Channels	Sources: Dewatering Facility (Centrifuge Room & Truck Bay)	Sources: BPR Tanks
	Chemical Scrubber and Carbon	Replace Media in Carbon	Carbon	Carbon	Carbon
Capital Costs					
Odor Control System Equipment			225,000	1,000,000	400,000
Equipment Installation (assume 35%)			79,000	350,000	140,000
Covers (assume \$100/sq ft)			0	0	2,200,000
Foul Air Duct and Supports (assume \$75/cfm up to 10,000 cfm and \$40/cfm > 10,000 cfm)			225,000	1,120,000	750,000
Structural Pads (lump sum)			40,000	60,000	60,000
Site/Civil (lump sum)			60,000	100,000	100,000
Electrical (lump sum)			60,000	100,000	100,000
Contractor Mobilization/Demobilization (lump sum)			20,000	20,000	20,000
Contractor Overhead and Profit (15%)			64,000	248,000	339,000
Contingency (30%)			116,000	450,000	616,000
Total Capital Costs	\$1,194,000	\$350,000	\$889,000	\$3,448,000	\$4,725,000

Note- Estimated capital costs are study level only and do not include engineering fees.



Rehabilitated Wet Scrubber
West Hickman ASH tanks



Activated carbon scrubber
West Hickman ASH tanks



Other “wins”

Veterans Park junction chambers



Carbon inserts for manholes

- Unit price contract for carbon replacements.
- Service contract for wet scrubbers.
- South Elkhorn activated carbon project.



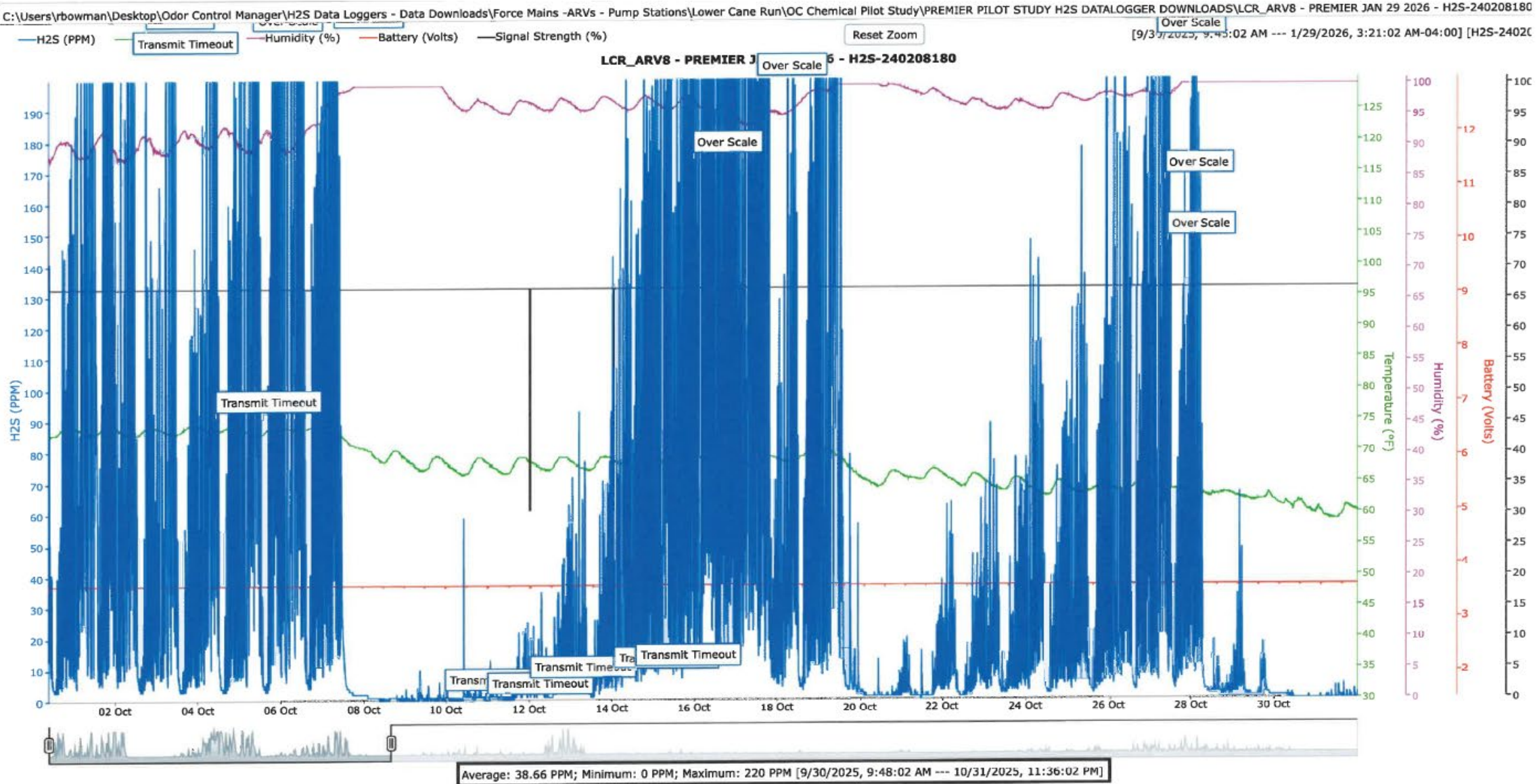
FOCUS AREA FOR 2025

Chemical Addition in the Collection System.



CHEMICAL ADDITION QUESTIONS

- Using consistent pilot test criteria, are there options that can exceed the performance of the current chemical?
- If better performance can be achieved, at what cost?



SEWER ODOR CONTROL UPDATE - 2026



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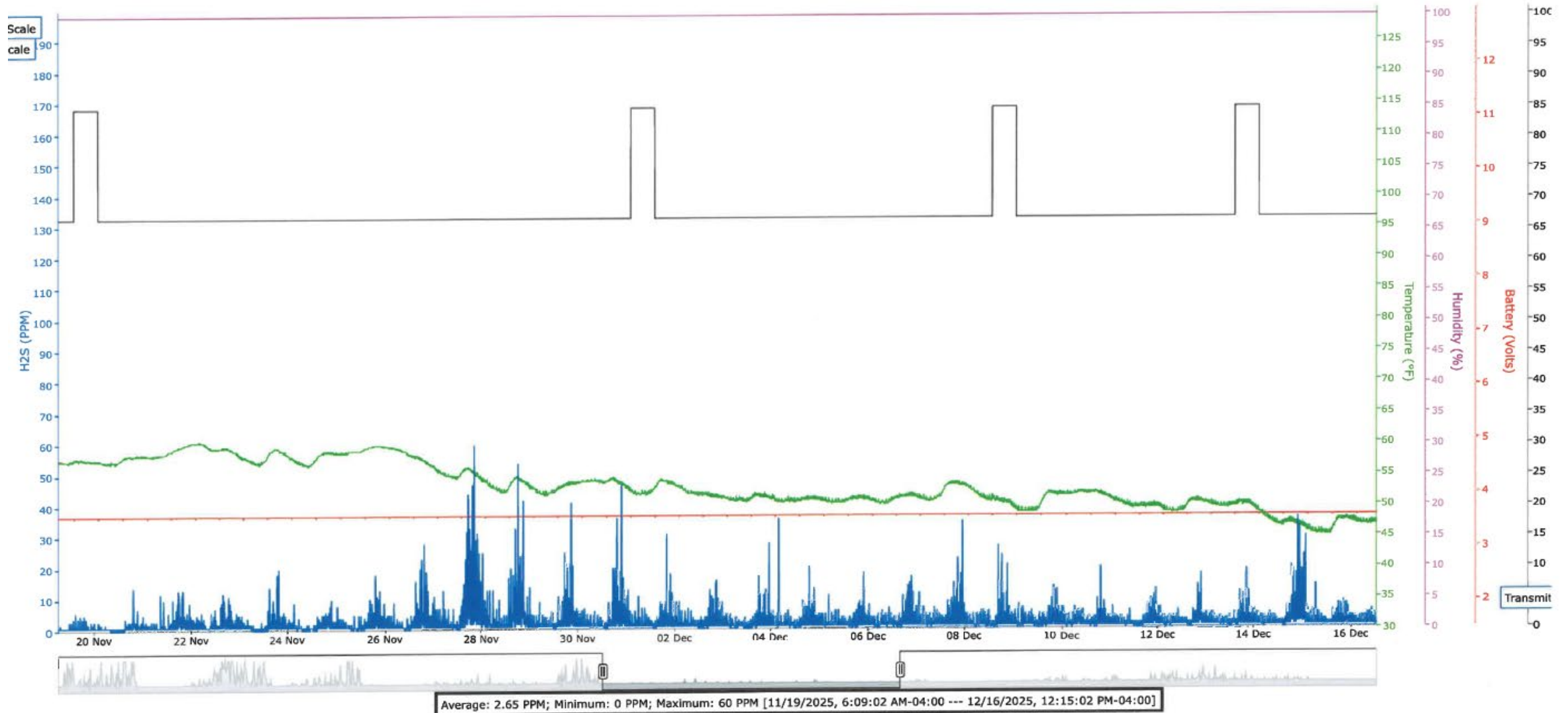
C:\Users\rbowman\Desktop\Odor Control Manager\H2S Data Loggers - Data Downloads\Fence Mains -ARVs - Pump Stations\Lower Cane Run\OC Chemical Pilot Study\PREMIER PILOT STUDY H2S DATALOGGER DOWNLOADS\LCR_ARV8 - PREMIER JAN 29 2026 - H2S-240208180

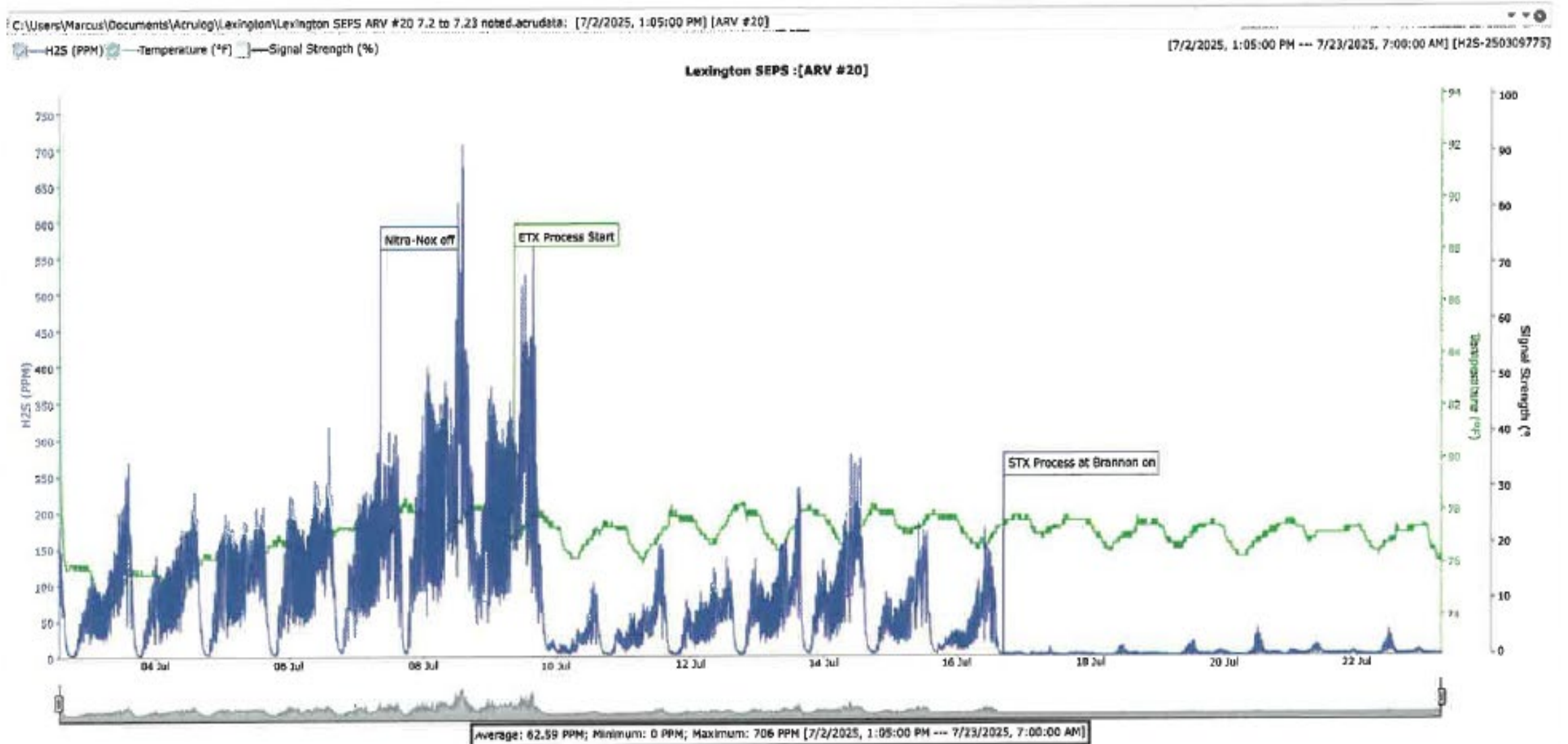
— H2S (PPM) — Temperature (°F) — Humidity (%) — Battery (Volts) — Signal Strength (%)

Reset Zoom

[9/30/2025, 9:45:02 AM --- 1/29/2026, 3:21:02 AM-04:00] [H2S-240208180]

LCR_ARV8 - PREMIER JAN 29 2026 - H2S-240208180







CONCLUSIONS

- Improved performance is attainable.
- No one size fits all solution.
- Operational costs still not clearly defined but appear manageable with consistent performance monitoring to prevent overfeed.



2025 SUMMARY / 2026 PLAN

- Treatment Units
 - Construction of two treatment units (one at each plant) “complete”.
 - Two treatment plant units 90% ready for construction and one pump station unit ready for bid/award/build.
 - FY27 construction funding is recommended for Town Branch WWTP solids building.
- Chemical Addition
 - Alternative chemical bids are currently being advertised.
 - Season long demonstration to validate performance and cost.



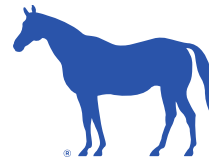
Questions?



LEXINGTON

STATUS UPDATE: ENERGY INITIATIVES

*James Bush, Energy Initiatives Section Manager
Environmental Quality & Public Works Committee
March 3, 2026*



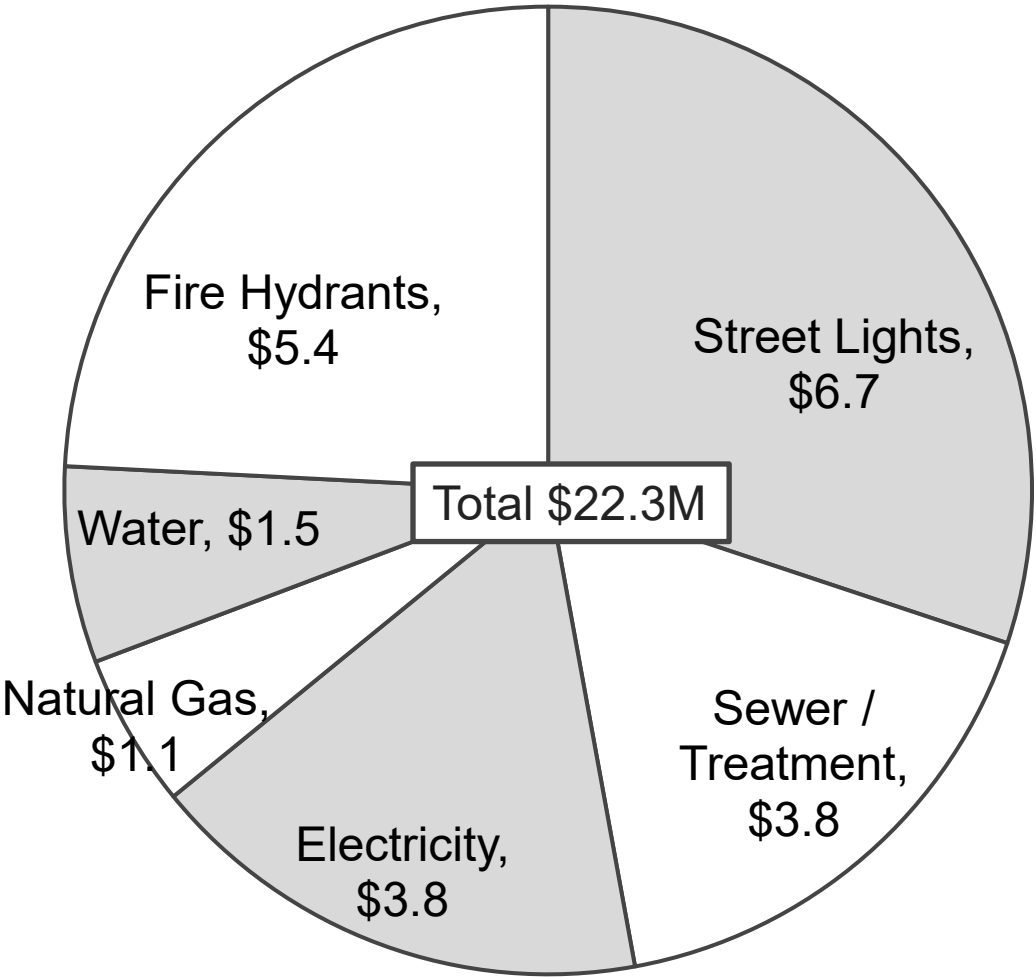
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Presentation Outline

- Utility Snapshot
- FY 2026 EIF Projects
- EIF Fund Balance
- Comments & Conclusions

FY 2025 Utility Expenses (millions)

Natural Gas
Water
Electricity



Effective Jan2026
+20% KAW rates
+9% KU rates

Prior Years	
FY22	\$20.5M
FY23	\$21.0M
FY24	\$21.4M
FY25	\$22.3M

FY 2026 Projects

- Solar @ Police Sector East
Under contract. Installation Mar-Apr
- Solar @ Police Sector West
Bids due Mar10
- Tates Creek Ballroom HVAC
Cost-shared new system (removed gas boiler)
- Town Branch HX Insulation
Small project to reduce heat loss from boiler loop
- *Anticipated* | Solar Installation #3:
Black & Williams 'Gym' or Ground Mount PV (Raven Run)
- *Anticipated* | Solar Preparation: Camp Kearney Roof

Fire Station #19

Location: 3360 Huffman Mill

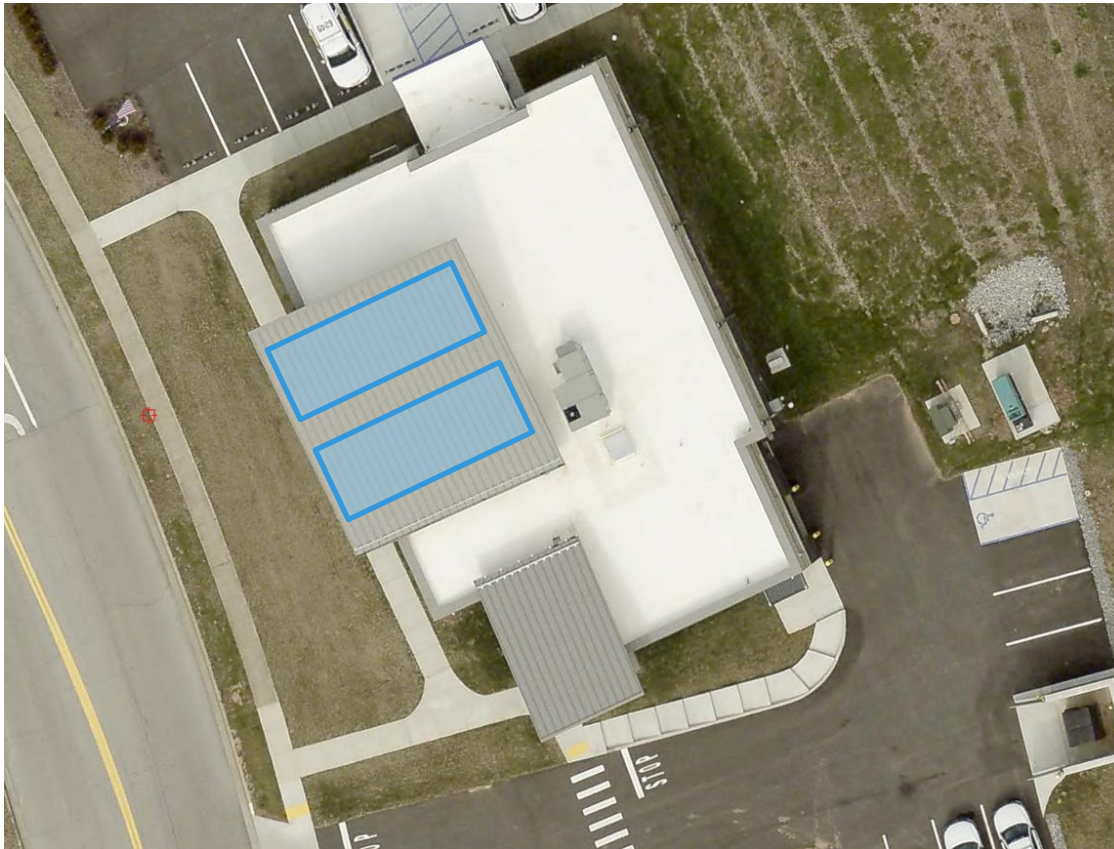
Est Savings: \$2,140 per year

Solar Array: 11.8 kWdc

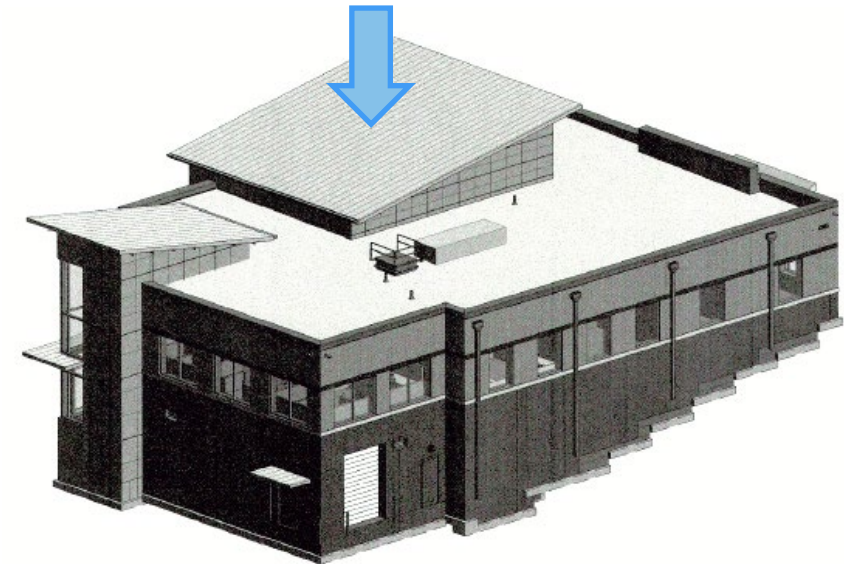
Est Output: 17,000 kWh



Police Sector East



Location: 4385 Clearwater Way
Solar Array: 20.5 kWdc
Est Output: 28,400 kWh
Est Savings: \$4,000 per year



Energy Improvement Fund Balance (as of 2/20/2026)

General Services (1101, 1105)	\$117,667
Ground Mount PV	\$40,000
Urban Services (1115, 1116)	\$30,824
Sanitary Sewer (4002, 4003)	\$254,937

- EIF-1101 to be largely committed by end of fiscal year
 - Federal government reneged on EECBG funding of \$329,300
 - \$150,000 requested in FY 2027 to continue deployment
- EIF-1115 and EIF-4002. No new funding requests
Project interest picking up with new staff

Conclusions & Comments

- Continued emphasis on solar PV & coordination with new and re-roofing projects
- Building Automation increasing
 - Police HQ - *new in 2026*
 - Therapeutic Center and WQ Admin - *in process*
 - Police Sector West - *recommended*
 - Family Care, Versailles Rd and Phoenix - *expansion opportunities*
 - New Government Center - *planned*
- No targets for building energy efficiency or solar
 - Difficult or inhibited when added later
 - Ad hoc objectives for the new government center

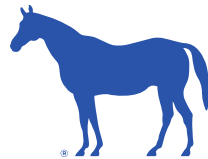
Questions?



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PROPOSED UPDATES TO THE ENGINEERING MANUALS

*Doug Burton, Director, Division of Engineering
Environmental Quality & Public Works Committee
March 3, 2026*



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Outline

- Procedures Manual
 - Updates and amendments
- Stormwater Manual Updates
 - Updates and amendments
- Maintenance Manual for Post-Construction Stormwater Controls
 - New manual

Purpose of Proposed Updates

- Update technical requirements to reflect standard engineering practice and to ensure consistency with other Engineering Manuals
 - Procedures Manual
 - Stormwater Manual

- Provide guidance to private property owners regarding the required maintenance of post-construction stormwater controls
 - Maintenance Manual for Post-Construction Stormwater Controls



Proposed Updates to the 2016 Procedures Manual

Procedure Manual

- The Procedures Manual describes how the Lexington-Fayette Urban County Government (LFUCG) manages the design and construction of roads, sanitary sewers and pump stations, and stormwater facilities in developing areas. The Procedures Manual applies to:
 1. Public infrastructure that is financed and constructed by Developers that becomes LFUCG property for operation and maintenance by LFUCG
 2. Stormwater controls on private property that are financed and constructed by Developers to meet the post-construction stormwater management requirements of the Stormwater Manual

Key Changes

- Composite Drainage Plan
 - Amendment No. 1 to the 2020 Stormwater Manual

- Land Use Definitions
 - Align with the current Zoning Ordinance

- Added New Manual
 - LFUCG Maintenance Manual for Post-Construction Stormwater Controls

Key Changes

- Stormwater Controls
 - Must meet post-construction maintenance requirements
 - Maintenance agreement is transferrable

- HB 443
 - Incorporated “...threat to public health, safety, or welfare” for strict ministerial application

- Surety
 - Added plantings associated with green infrastructure stormwater controls



Proposed Updates to the 2020 Stormwater Manual

Stormwater Manual

- The Stormwater Manual establishes the following:
 - Overall stormwater management policies of LFUCG
 - Minimum uniform standards to assure quality in the design and construction of stormwater infrastructure in development projects
 - Construction site stormwater runoff control standards and post-construction stormwater management standards that comply with the requirements of the Commonwealth of Kentucky Municipal Separate Storm Sewer System (MS4) Permit issued to LFUCG
 - Stormwater management design information that must be submitted to LFUCG by the Developer's Engineer
 - National Flood Insurance Program requirements HB 443

Key Changes

- HB 443
 - Incorporated “...threat to public health, safety, or welfare” for strict ministerial application
 - Amendment No. 2
- Temporary Stormwater Controls
 - Required when the downstream regional basin has not yet been built
- Regional Stormwater Controls
 - Must be identified on all development submittals
- Composite Drainage Plans
 - Address backyard flooding issues
 - Amendment No. 1

Key Changes

- Culverts and Bridges
 - Incorporated state and federal manuals
- Stormwater Pipe Specifications and Inspections
 - Updated material specifications
 - Clarified and improved CCTV procedures
- Stream Bank Stabilization and Restoration
 - No phosphorus in fertilizer
 - Follow KYTC standards and re-check to ensure stabilization

Key Changes

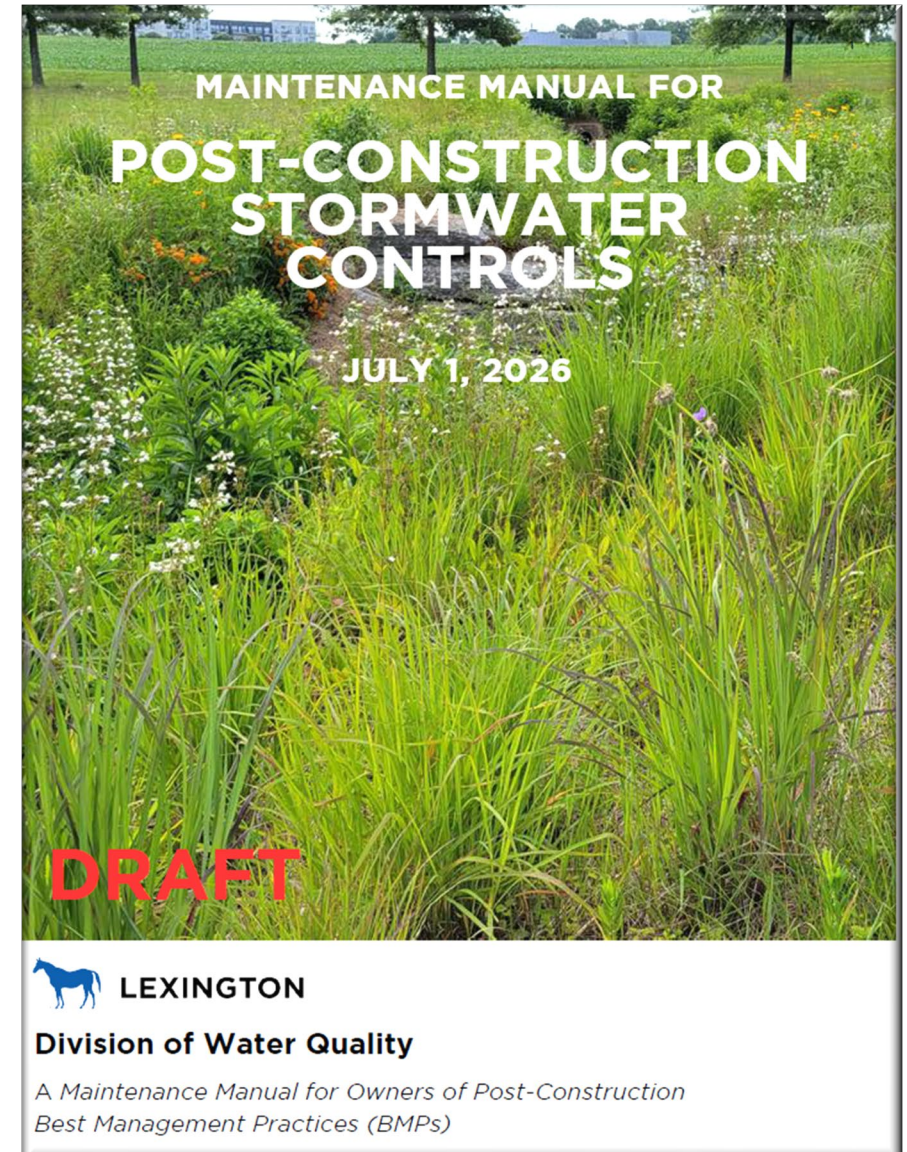
- Plantings
 - Require Landscape Architect, Professional Wetland Scientist, or firm prequalified by KYTC for botany to confirm
 - Suitable plant species must be included on USACE National Wetland Plant List
- Manufactured Treatment Devices (MTDs)
 - Updated acceptable types to meet national standards
 - Lids less than 200 pounds
- Wetlands
 - Minimum watershed drainage area requirement
 - Liner requirement

Proposed Maintenance Manual for Post-Construction Stormwater Controls



Summary

- Contains maintenance requirements for stormwater controls on private property
- Replaces the Repair, Maintenance, and Ownership of Stormwater Control Devices Policy (Basin Maintenance Policy)
- Includes planting guidelines, seeding and sodding guidelines, and supplementary inspection checklists
- Will be incorporated by ordinance





Ordinances

Article I – In General. Sec. 16-1(c)(19) and Sec. 16-1(f)(70)

- *Engineering manuals. That set of documents used to provide the standards for the design, review, construction and inspection of infrastructure in Lexington-Fayette County. These are also known as the engineering manuals or as the manuals. The engineering manuals consist of the procedures manual for infrastructure development (also known as the procedures manual), the construction inspection manual (also known as the inspection manual), geotechnical manual, the roadway manual, structures manual, stormwater manual, and the sanitary sewer and pumping station manual (also known as the sewer manual), and a maintenance manual for post-construction stormwater controls that outlines minimum maintenance requirements. These manuals, including the definitions therein, are hereby adopted and incorporated into this Code by reference. From time to time, the urban county government may revise, modify, or amend the manuals in conformance with the procedures established in the procedures manual.*

Questions?



LEXINGTON

2026 ENVIRONMENTAL QUALITY & PUBLIC WORKS (EQPW) COMMITTEE REFERRAL LIST

ITEMS REFERRED	SPONSOR(S)	DATE REFERRED	LAST HEARD	AGENDA DATE	FILE ID
1) Odor Control Program Update	J. Reynolds	October 31, 2023	February 11, 2025	March 3, 2026	0140-24
2) Coordination of Ongoing Maintenance for Projects (infrastructure, beautification, etc.)	J. Reynolds	August 20, 2024	October 7, 2025	June 16, 2026	0876-25
3) Neighborhood Traffic Management Program (NTMP)	L. Sheehan	August 20, 2024	February 11, 2025	November 17, 2026	0151-25
4) Traffic Calming with Street Art and Quick-Builds	L. Sheehan	August 20, 2024	August 12, 2025	June 16, 2026	0737-25
5) Parking Citation Issuance During Winter Weather Emergencies	E. Curtis	April 22, 2025		May 12, 2026	
6) Sewer Cleanout Reimbursement Program	L. Sheehan	August 12, 2025	February 3, 2026		0095-26
7) SSTF: Traffic Control Using Data Analytics (Streetlight Data, Miovision)	D. Sevigny	December 4, 2025		September 15, 2026	
8) LFUCG/AFSCME to Review and Consider Workforce Conditions and Operational Impacts	A. Beasley	January 13, 2026		June 16, 2026	
9) Review of Chapter 17C: Public Rights of Way	T. Morton	January 13, 2026		June 16, 2026	
10) Engineering Manuals Update	D. Sevigny	February 10, 2026		March 3, 2026	0187-26
11) SSTF: Complete Streets/Vision Zero Update (Safe Streets Update)	D. Sevigny	February 10, 2026		September 15, 2026	
12) SSTF: Complete Streets Education and Messaging	J. Hale, T. Morton	February 10, 2026		September 15, 2026	
13) SSTF: Experiential Engagement and Placemaking	T. Morton	February 10, 2026			
14) Complete Streets Design Manual Update	D. Sevigny	February 24, 2026		Fall 2026	
ANNUAL/PERIODIC ITEMS	SPONSOR(S)	DATE REFERRED	LAST HEARD	AGENDA DATE	FILE ID
15) Empower Lexington Update	D. Sevigny	June 3, 2025	June 10, 2025	August 18, 2026	0547-23
16) Live Green Lexington Update (Public Information and Engagement)	D. Sevigny	February 2, 2021	October 7, 2025	October 13, 2026	0500-21
17) Urban Forestry / Street Trees Update [Lex Grow Trees]	D. Sevigny	September 17, 2019	June 10, 2025	August 18, 2026	0501-21
18) Capacity Assurance Program (CAP) Audit Update	D. Sevigny	August 30, 2018	April 18, 2023	April, 2028	0964-20
19) Energy Initiatives Update	D. Sevigny	January 10, 2017	March 11, 2025	March 3, 2026	0572-22
20) Snow & Ice Control Plan	D. Sevigny	February 15, 2014	October 7, 2025	October 13, 2026	1034-22
21) Pavement Management Plan	D. Sevigny	May 26, 2020	March 11, 2025	May 12, 2026	0440-22
22) Division of Water Quality Stormwater Projects Update	D. Sevigny	February 20, 2018	November 18, 2025	September 15, 2026	0922-22
23) Municipal Separate Storm Sewer System (MS4) Update	D. Sevigny	February 20, 2018	August 12, 2025	October 13, 2026	1122-22
24) Consent Decree and Remedial Measures Plan Update	D. Sevigny	January 22, 2019	December 3, 2024	May 12, 2026	0222-22
25) Waste Contamination Reduction Update	D. Sevigny	November 14, 2023	November 18, 2025	November 17, 2026	1200-24
Updated 02.24.2026					