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MAR 28 2025

PUBLIC SERVICE
COMMISSION

March 28, 2025

Linda Bridwell, P.E.
Executive Director
Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

RE: Case # 2025-00050

Dear Ms. Bridwell:

The Northern Kentucky Water District hereby submits the enclosed response to Commission Staff's Request for Information. If you have any further questions or need additional information, please feel free to contact me.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to be "T Edge".

Tom Edge, Esq. (KBA #95534)
General Counsel
Director of Compliance, Communications and Regulatory Affairs
Phone - 859-578-5457
Email : tedge@nkywater.org

enclosure

cc : Ron's Food Mart Covington, 322 Greenup Street, Covington, Kentucky 41011

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

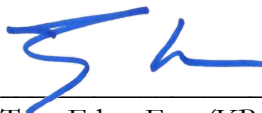
In the Matter of:

RON'S FOOD MART COVINGTON)	
)	CASE NO. 2025-00050
COMPLAINANT)	
)	
V.)	
)	
NORTHERN KENTUCKY WATER DISTRICT)	
)	
DEFENDANT)	

RESPONSE TO COMMISSION STAFF'S REQUEST FOR INFORMATION

Comes now the Northern Kentucky Water District ("NKWD") and submits its responses to the Commission Staff's Request for Information dated March 21, 2025.

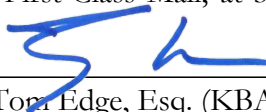
RESPECTFULLY SUBMITTED:



Tom Edge, Esq. (KBA #95534)
General Counsel
Cassandra Zoda, Esq. (KBA #96871)
Contracts, Claims and Procurement Coordinator
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Erlanger, KY 41018
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czoda@nkywater.org
Counsel for Northern Kentucky Water District

CERTIFICATE OF SERVICE

In accordance with 807 KAR 5:001, Section 8, I certify that this document was submitted electronically to the Public Service Commission on March 28, 2025 and a copy mailed to Ron's Food Mart Covington by U.S. Postal Service, First-Class Mail, at 332 Greenup Street, Covington, Kentucky 41011.



Tom Edge, Esq. (KBA #95534)

NORTHERN KENTUCKY WATER DISTRICT

Response to Commission Staff's First Request for Information

CASE NO. 2025-00007

WITNESS – Kyle Ryan, Engineering Manager – Design & Construction

Q.1. Provide copies of all records for the years 2020 through 2025 concerning installation, removal, replacement, repair, and maintenance of all water lines within a one block radius to Ron's Food Mart Covington, 332 Greenup Street, Covington, Kentucky 41011, to include date and cause of any line breaks, length of leak or rupture, date of repair, complaints arising therefrom, and any property damage alleged to have arisen as a result of the work.

A.1. NKWD submits the following exhibits as requested:

Exhibit A	Pipe Detail Reports, Pipe Numbers 161, 71, 172, 74
Exhibit B	Valve Detail Reports
Exhibit C	Water Main Work Order 07-01644
Exhibit D	Water Valve Work Order 19-00332
Exhibit E	Water Main Work Order 20-09433
Exhibit F	Water Main Work Order 20-08653
Exhibit G	Water Main Work Order 24-02408
Exhibit H	Water Main Work Order 24-08974

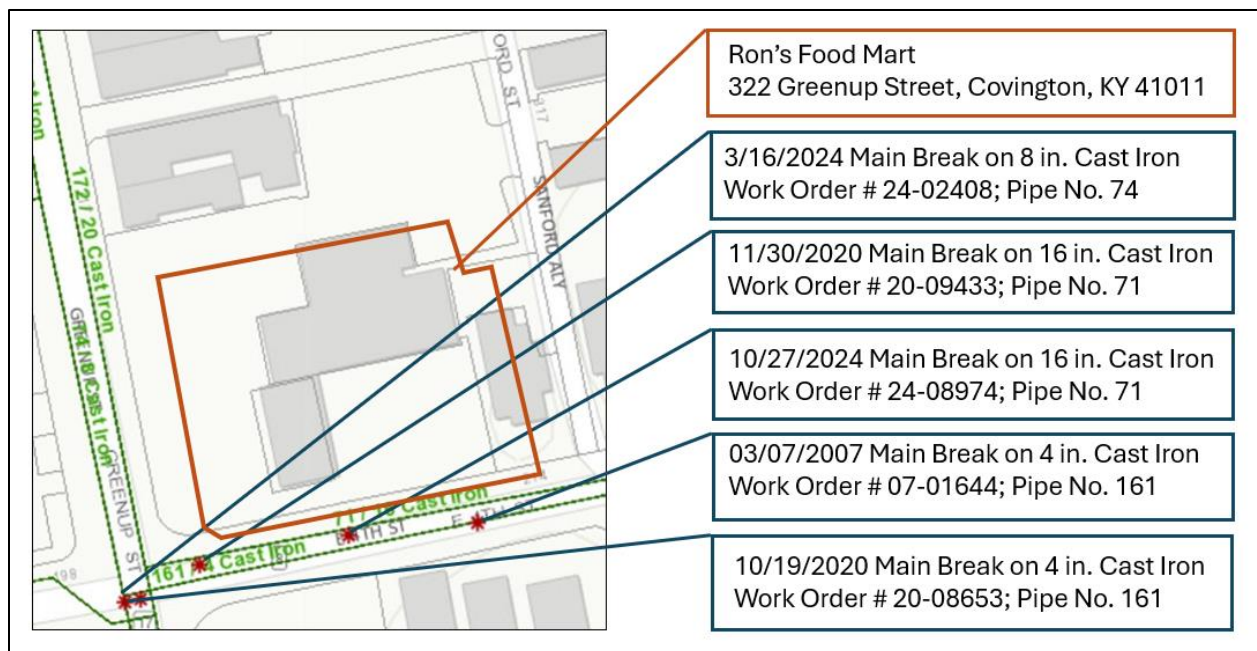
For context, NKWD states that it has 1,330 miles of water main in its area of sizes varying from 2 inches to 60-inch large transmission lines. NKWD routinely flushes lines, test hydrants and turns valves in accordance with Kentucky Administrative Regulation and the deviation granted by the Public Service Commission in Case Number 2016-00427.

Water mains are installed by connecting 18-to-20-foot length pipes together. As tracking each individual pipe is impractical, NKWD groups them into segments of various lengths based on a variety of geographical and physical factors including installation date. Those segments are assigned "Pipe Numbers" for ease of tracking and management in our work order database and water main replacement program.

NKWD maintains a water main replacement program and model wherein all mains are evaluated for replacement and updated at least annually based on information as it is updated into NKWD databases. Using several factors including age, size, material, number of breaks & leaks, soil corrosivity, discolored water complaints, blowoff utilization, available flow, road class, service to critical customers, and if there are planned roadway improvements, the model scores each main and assigns it a priority level for replacement (high, medium, low). Using the model prioritization results, projects are developed and selected by the NKWD engineering department using their professional judgment in consideration of the totality of the circumstances including budget and project viability to be placed in NKWD's five-year capital budget for design and construction.

In the block surrounding Complainant's property, commonly located at 332 Greenup Street in downtown Covington, Kentucky, NKWD has four different water mains within the right-of-way that abuts this property as indicated in the map below. These lines include 16-inch cast iron transmission main and 4-inch cast iron water main running east to west in front of the premises along East 4th Street and a 20-inch cast iron transmission main and 8-inch water main running north to south adjacent to the premises along Greenup Street.

For the convenience of the Commission in reviewing the aforementioned records, NKWD has mapped the mains and labeled the location of each break that has occurred since 1997:



Please note the marked locations on the map are as indicated by the field crew that responded. In the map above, there is approximately 74 feet between where the 2020 water main break occurred and the 2024 water main break. Accordingly, these breaks while segmented together as the same "Pipe Number" occurred on two different pieces of pipe.

Pipe Number 71, which is the segment of pipe where both the 2020 water main break and the 2024 water main breaks occurred, was listed prior to the 2024 water main break as a medium priority for replacement in our water main replacement program model. At the next update to the water main replacement program model after the 2024 water main break, Pipe Number 71 had elevated to high priority water main for replacement. With that designation, it has a better chance of being included in NKWD's five-year capital budget for replacement in the next few years assuming other water main breaks, leaks, discolored water complaints, or planned roadway improvements do not result in a substantial number of other water main's score exceeding this particular water main's score.

NKWD would state that in most instances, there is no specific reason for water main breaks but generally it is the result of multiple factors primarily involving specific material and environmental conditions. As to the two main breaks Complainant outlines in his Complaint (the 2020 and 2024 water main breaks on Pipe No. 71), NKWD is not aware of any other complaints about those respective main breaks or damage to any other property. Additional information regarding each water main break and the related work is included in the aforementioned Exhibits.



EXHIBIT A

Pipe Detail Report

3/24/2025

2:01 PM

Pipe Rec #: 84

From End Type: Node

From End: 1070

Pipe Number: 161

To End Type: Node

To End: 1093

of Services:

Status: Domestic (Unconfirmed)

Address:

Diameter: 4.00

Wrap: No, Unwrapped

Material: Cast Iron

Corrosion Control:

Length (ft): 250.52

Surface:

Manufacturer:

Location:

Pressure Class:

Maint Zone:

C Value:

Owner: N. KY Water District

C Value Source:

Managed By:

Lining: Unlined

System: COVINGTON

Fixed Asset ID:

Pressure Zone: Gravity System FTTP

Plant ID Entering:

Plant ID Leaving:

General Location: 209 E 4TH COVINGTON, KY 41011

Project Number:

Elevation (ft):

Benefit District #:

Alt Elevation (ft):

Map Number: C-016-1

Date Installed: 1/1/1905

Alt Map Number:

GIS Sub Type :

Depth:

Construction

Replacement Value:

Consequence of Failure:

Replacement Date:

Probability of Failure:

Present Value:

Mitigation: 1.00

Remaining Life:

Risk: 0.00

Replacement Cost:

Mainbreaks

<u>Dated Reported:</u>	<u>Break No:</u>	<u>Exterior Condition:</u>	<u>Soil Condition:</u>	<u>Break Type:</u>
3/2/2007	07/01043	Fair	No, Unwrapped	Longitudinal
11/3/2020	20/04980	Fair	No, Unwrapped	Longitudinal

Route ID:

Last Flushed Date:

Default WO Cat:

No WO/PM/Req: ☐

Work Orders

<u>Work Order:</u>	<u>Main Task:</u>	<u>Problem:</u>	<u>Status:</u>	<u>Status Date:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>Compl Date:</u>
20-08654	RESTORATION - MISCELLANEOUS	Main Break 20/04980	Complete	1/19/2021	11/3/2020	1/8/2021	
20-08653	MAIN BREAK	Main Break 20/04980	Complete	11/3/2020	10/17/2020	10/19/2020	
07-01645	RESTORATION - MISCELLANEOUS	Main Break 07/01043	Complete	4/2/2007	3/9/2007	3/29/2007	
07-01644	MAIN BREAK	Main Break 07/01043	Complete	3/7/2007	3/2/2007	3/2/2007	

Requests

<u>Status Date:</u>	<u>Status:</u>	<u>Request #:</u>	<u>Problem:</u>	<u>Cause:</u>	<u>Name 1:</u>	<u>Business:</u>
11/3/2020	WO Completed	20/04980	Main Break		EDDIE	

Pipe Detail Report

3/24/2025

2:01 PM

Joint Type:		# Services:	4.00
Soil Type:		User 8:	0.00
Age Confidence:	Plus or minus 5 yrs	User 9:	
County:	KENTON	Clean-Line Date:	
Size Confidence:		Abandon Date:	
User 6:		GPS Date:	
Tracing Wire:	<input type="checkbox"/>	Critical Pipe:	<input type="checkbox"/>
Raw Water:			<input type="checkbox"/>
WO Comment:	/Covington/C-001-C-100 pdf/C-016.pdf		

Pipe Detail Report

3/24/2025

2:01 PM

Pipe Rec #: 45

Pipe Number: 71 ✓

of Services: 0

Address:

From End Type: Node

To End Type: Node

Status: Domestic (Unconfirmed)

From End: 1090

To End: 1049

Diameter: 16.00
Material: Cast Iron
Length (ft): 266.57
Manufacturer:
Pressure Class:
C Value:
C Value Source:
Lining: Unlined
Fixed Asset ID:
Plant ID Entering:
Plant ID Leaving:

Wrap: No, Unwrapped
Corrosion Control:
Surface:
Location:
Maint Zone:
Owner: N. KY Water District
Managed By:
System: COVINGTON
Pressure Zone: Gravity System FTTP

General Location: 202 E 4TH COVINGTON, KY 41011

Project Number:

Benefit District #:

Map Number: C-016-1

Alt Map Number:

Depth:

Elevation (ft):

Alt Elevation (ft):

Date Installed: 1/1/1880

GIS Sub Type :

Construction

Replacement Value:

Replacement Date:

Present Value:

Remaining Life:

Consequence of Failure:

Probability of Failure:

Mitigation: 1.00

Risk: 0.00

Replacement Cost:

Mainbreaks				
<u>Dated Reported:</u>	<u>Break No:</u>	<u>Exterior Condition:</u>	<u>Soil Condition:</u>	<u>Break Type:</u>
12/8/2020	20/05704	Good	No, Unwrapped	Blowout
11/5/2024	24/05761	Poor	No, Unwrapped	Blowout

Route ID:

Last Flushed Date:

Default WO Cat:

No WO/PM/Req: ☐

Work Orders							
<u>Work Order:</u>	<u>Main Task:</u>	<u>Problem:</u>	<u>Status:</u>	<u>Status Date:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>Compl Date:</u>
H-20448	MAIN BREAK		Complete	12/31/2000	12/30/2000	12/31/2000	
20-09433	MAIN BREAK	Main Break 20/05704	Complete	12/8/2020	11/30/2020	12/1/2020	
20-09434	RESTORATION - MISCELLANEOUS	Main Break 20/05704	Complete	2/3/2021	12/1/2020	1/27/2021	
24-08974	MAIN BREAK	Main Break 24/05761	Complete	11/5/2024	10/27/2024	10/27/2024	
24-08975	RESTORATION - MISCELLANEOUS	Main Break 24/05761	Complete	2/24/2025	11/5/2024	1/3/2025	

Requests

<u>Status Date:</u>	<u>Status:</u>	<u>Request #:</u>	<u>Problem:</u>	<u>Cause:</u>	<u>Name 1:</u>	<u>Business:</u>
12/8/2020	WO Completed	20/05704	Main Break		DAVID	

Pipe Detail Report

3/24/2025

2:01 PM

Joint Type:

Services: 3.00

Soil Type:

User 8: 0.00

Age Confidence: Plus or minus 5 yrs

User 9:

County: KENTON

Clean-Line Date:

Size Confidence:

Abandon Date:

User 6:

GPS Date:

Tracing Wire: ☐

Critical Pipe: ☐

Raw Water: ☐

WO Comment: /Covington/C-001-C-100 pdf/C-016.pdf

Pipe Detail Report

3/24/2025

2:01 PM

Pipe Rec #: 95

From End Type: Node

From End: 1090

Pipe Number: 172

To End Type: Node

To End: 12902

of Services:

Status: Domestic (Unconfirmed)

Address:

Diameter: 20.00

Material: Cast Iron

Length (ft): 436.03

Manufacturer:

Pressure Class:

C Value:

C Value Source:

Lining: Unlined

Fixed Asset ID:

Plant ID Entering:

Plant ID Leaving:

Wrap: No, Unwrapped

Corrosion Control:

Surface:

Location:

Maint Zone:

Owner: N. KY Water District

Managed By:

System: COVINGTON

Pressure Zone: Gravity System FTTP

General Location: 302 GREENUP COVINGTON, KY 41011

Project Number:

Elevation (ft):

Benefit District #:

Alt Elevation (ft):

Map Number: C-363

Date Installed: 1/1/1875

Alt Map Number:

GIS Sub Type :

Depth:

Construction

Replacement Value:

Consequence of Failure:

Replacement Date:

Probability of Failure:

Present Value:

Mitigation: 1.00

Remaining Life:

Risk:

Replacement Cost:

Route ID:

Last Flushed Date:

Default WO Cat:

No WO/PM/Req: ☐

Joint Type:

Services: 9.00

Soil Type:

User 8: 0.00

Age Confidence: Plus or minus 5 yrs

User 9:

County: KENTON

Clean-Line Date:

Size Confidence:

Abandon Date:

User 6:

GPS Date:

Tracing Wire: ☐

Critical Pipe: ☐

Raw Water: ☐

WO Comment: /Covington/C-301-C-400 pdf/C-363.pdf

Pipe Detail Report

3/24/2025

2:01 PM

Pipe Rec #: 48

From End Type: Node

From End: 1093

Pipe Number: 74 ✓

To End Type: Node

To End: 1032

of Services:

Status: Domestic (Unconfirmed)

Address:

Diameter: 8.00

Wrap: No, Unwrapped

Material: Cast Iron

Corrosion Control:

Length (ft): 198.07

Surface:

Manufacturer:

Location:

Pressure Class:

Maint Zone:

C Value:

Owner: N. KY Water District

C Value Source:

Managed By:

Lining: Unlined

System: COVINGTON

Fixed Asset ID:

Pressure Zone: Gravity System FTTP

Plant ID Entering:

Plant ID Leaving:

General Location: 325 GREENUP COVINGTON, KY 41011

Project Number:

Elevation (ft):

Benefit District #:

Alt Elevation (ft):

Map Number: C-363

Date Installed: 1/1/1885

Alt Map Number:

GIS Sub Type :

Depth:

Construction

Replacement Value:

Consequence of Failure:

Replacement Date:

Probability of Failure:

Present Value:

Mitigation: 1.00

Remaining Life:

Risk:

Replacement Cost:

Mainbreaks

<u>Dated Reported:</u>	<u>Break No:</u>	<u>Exterior Condition:</u>	<u>Soil Condition:</u>	<u>Break Type:</u>
3/29/2024	24/01452	Fair	No, Unwrapped	Joint

Route ID:

Last Flushed Date:

Default WO Cat:

No WO/PM/Req: ☐

Work Orders

<u>Work Order:</u>	<u>Main Task:</u>	<u>Problem:</u>	<u>Status:</u>	<u>Status Date:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>Compl Date:</u>
H-21715	MISC MAIN LEAKS (JOINTS ETC)	24/01452	Complete	4/20/2001	4/20/2001	4/20/2001	
24-02410	RESTORATION -	Main Break	Complete	5/8/2024	3/26/2024	4/5/2024	
24-02408	MISCELLANEOUS MAIN BREAK	24/01452 Main Break	Complete	3/26/2024	3/16/2024	3/16/2024	

Joint Type:

Services: 1.00

Soil Type:

User 8: 0.00

Age Confidence: Plus or minus 5 yrs

User 9:

County: KENTON

Clean-Line Date:

Size Confidence:

Abandon Date:

User 6:

GPS Date:

Tracing Wire: ☐

Critical Pipe: ☐

Raw Water: ☐

WO Comment: /Covington/C-301-C-400 pdf/C-363.pdf



EXHIBIT B

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number:	C00657	Operating Status:	
Address:	325 GREENUP ST	Sys Valve Rec #:	29,021
Type	Gate	Size:	8.00
Classification:	Main Line	End Type:	
Access:	Valve Box	Tapping:	
System:	COVINGTON	Operator Type:	Open
Manufacturer:		Direction To Open:	Right
Model Number:		Turns to Open:	25.00
Serial Number:	C00657	Oper Nut Size(in):	
Pipe Number:	74	Oper Depth (ft):	3.00
Project Number:		Installation Date:	
Owned By:		Fixed Asset ID:	
Managed by:		Isolation Valve:	<input type="checkbox"/>
		Active:	<input type="checkbox"/>
		Clockwise To Close:	<input type="checkbox"/>
		Currently Open:	<input type="checkbox"/>
		Hydrant Valve:	<input type="checkbox"/>
		Normally Open:	<input type="checkbox"/>
		Operable:	<input type="checkbox"/>

Location

General Location:

In Easement:	False	Elevation (ft):		X Coordinate:	1567191.91744894
Map Number:	C-363	Alt Elevation (ft):		Y Coordinate:	578411.37935577
Alt Map Number:		GPS Date:		GPS Located:	False
Pressure Zone:		GPS Source:			
Facility:		GIS Sub Type:			

Construction

Replacement Value:		Consequence of Failure:	
Replacement Date:		Probability of Failure:	
Present Value:		Mitigation:	1.00
Remaining Life:		Risk:	
		Replacement Cost:	

Inspections

Last Inspection:	General Condition:	Last Exercised Date:
Inspection Frequency:	Next Inspection:	Turns to Exercise:
Route ID:	Last Exercised Date:	
Default WO Cat:	No WO/PM/Req:	<input type="checkbox"/>

Work Orders:							
Work Order:	Main Task:	Problem:	Status:	Status Date:	Start Date:	End Date:	Compl Date:
19-07447	VALVE OPERATED	Main Break 19105516	Complete	8/6/2019	8/1/2019	8/1/2019	8/1/2019
20-04083	VALVE INSPECTION	Valve Inspection Progra	Complete	8/20/2020			
20-08655	VALVE OPERATED	Main Break 20104980	Complete	11/3/2020	10/18/2020	10/18/2020	10/18/2020
21-00703	VALVE OPERATED	Main Break 21100409	Complete	1/22/2021	1/16/2021	1/16/2021	1/16/2021
22-04322	VALVE OPERATED	Main Break 22102636	Complete	6/14/2022	5/25/2022	5/25/2022	5/25/2022
24-02409	VALVE OPERATED	Main Break 24101452	Complete	3/26/2024	3/15/2024	3/15/2024	3/15/2024
24-02515	VALVE OPERATED	Install 1-1/2" Water Ser	Complete	3/28/2024	3/13/2024	3/13/2024	3/13/2024
24-03656	VALVE INSPECTION	Valve Inspection Progra	Complete	5/13/2024			

User 1:		H-Component:	
Set-In:	Blacktop	Cast Date:	
Symbol:		User 9:	
Work Done:		First Located:	
County:	KENTON	Work Completed:	
Cross Street:	PARK PL	GPS Date:	
User 13:	<input type="checkbox"/>	Bypass?:	<input type="checkbox"/>
WO Comment:		GIS Disc:	<input type="checkbox"/>

Valve Number:	C00657	Operating Status:		
User 16:		User 26:	User 36:	<input type="checkbox"/>
User 17:		User 27:	User 37:	<input type="checkbox"/>
User 18:		User 28:	User 38:	<input type="checkbox"/>
User 19:		User 29:	User 39:	<input type="checkbox"/>
User 20:		User 30:	User 40:	<input type="checkbox"/>
User 21:		User 31:		
User 22:		User 32:		
User 23:		User 33:		
User 24:		User 34:		
User 25:		User 35:		

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number:	C00361	Operating Status:	
Address:	0 4TH ST	Sys Valve Rec #:	253
Type	Gate	Size:	4.00
Classification:	Main Line	End Type:	
Access:	Valve Box	Tapping:	
System:	COVINGTON	Operator Type:	Open
Manufacturer:		Direction To Open:	Right
Model Number:		Turns to Open:	13.00
Serial Number:	C00361	Oper Nut Size(in):	
Pipe Number:	161	Oper Depth (ft):	0.00
Project Number:		Installation Date:	
Owned By:		Fixed Asset ID:	
Managed by:		Isolation Valve:	<input checked="" type="checkbox"/>
		Active:	<input type="checkbox"/>
		Clockwise To Close:	<input type="checkbox"/>
		Currently Open:	<input type="checkbox"/>
		Hydrant Valve:	<input type="checkbox"/>
		Normally Open:	<input type="checkbox"/>
		Operable:	<input type="checkbox"/>

Location

General Location:

In Easement:	False	Elevation (ft):		X Coordinate:	1567269.65351394
Map Number:	C-016-1	Alt Elevation (ft):		Y Coordinate:	578252.15034352
Alt Map Number:		GPS Date:		GPS Located:	False
Pressure Zone:	Gravity System FTTP	GPS Source:			
Facility:	N. Ky. Water District	GIS Sub Type:			

Construction

Replacement Value:		Consequence of Failure:	
Replacement Date:		Probability of Failure:	
Present Value:		Mitigation:	1.00
Remaining Life:		Risk:	0.00
		Replacement Cost:	

Inspections

Last Inspection:	General Condition:	Last Exercised Date:
Inspection Frequency:	Next Inspection:	Turns to Exercise:
Route ID:	Last Exercised Date:	
Default WO Cat:	No WO/PM/Req:	<input type="checkbox"/>

Work Orders:	Work Order:	Main Task:	Problem:	Status:	Status Date:	Start Date:	End Date:	Compl Date:
	H-12194	VALVE TURN PART OF WORK ORDER		Complete	1/15/1999	1/15/1999	1/15/1999	
	20-08655	VALVE OPERATED	Main Break 20/04980	Complete	11/3/2020	10/18/2020	10/18/2020	10/18/2020
	22-04322	VALVE OPERATED	Main Break 22/02636	Complete	6/14/2022	5/25/2022	5/25/2022	5/25/2022
	24-02409	VALVE OPERATED	Main Break 24/01452	Complete	3/26/2024	3/15/2024	3/15/2024	3/15/2024
	24-02515	VALVE OPERATED	Install 1-1/2" Water Ser	Complete	3/28/2024	3/13/2024	3/13/2024	3/13/2024
	24-03656	VALVE INSPECTION	Valve Inspection Progra	Complete	5/13/2024			

User 1:		H-Component:	228509.00
Set-In:	Blacktop	Cast Date:	
Symbol:	Committed Valve	User 9:	
Work Done:	1	First Located:	
County:	KENTON	Work Completed:	
Cross Street:		GPS Date:	
User 13:	<input type="checkbox"/>	Bypass?:	<input type="checkbox"/>
WO Comment:		GIS Disc:	<input type="checkbox"/>

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number: C00361

Operating Status:

User 16:	User 26:	User 36:	<input type="checkbox"/>
User 17:	User 27:	User 37:	<input type="checkbox"/>
User 18:	User 28:	User 38:	<input type="checkbox"/>
User 19:	User 29:	User 39:	<input type="checkbox"/>
User 20:	User 30:	User 40:	<input type="checkbox"/>
User 21:	User 31:		
User 22:	User 32:		
User 23:	User 33:		
User 24:	User 34:		
User 25:	User 35:		

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number:	C09975	Operating Status:	
Address:	4TH ST	Sys Valve Rec #:	35,633
Type	Gate	Size:	8.00
Classification:	Future Tie-In	End Type:	
Access:	Valve Box	Tapping:	
System:	COVINGTON	Operator Type:	Open
Manufacturer:	AFC	Direction To Open:	Right
Model Number:		Turns to Open:	24.00
Serial Number:	C09975	Oper Nut Size(in):	
Pipe Number:		Oper Depth (ft):	7.50
Project Number:		Installation Date:	1/10/2019
Owned By:		Fixed Asset ID:	
Managed by:		Isolation Valve:	<input type="checkbox"/>
		Active:	<input type="checkbox"/>
		Clockwise To Close:	<input type="checkbox"/>
		Currently Open:	<input type="checkbox"/>
		Hydrant Valve:	<input type="checkbox"/>
		Normally Open:	<input type="checkbox"/>
		Operable:	<input type="checkbox"/>

Location

General Location:			
In Easement:	False	Elevation (ft):	X Coordinate: 1567239.84550269
Map Number:	C-016-1	Alt Elevation (ft):	Y Coordinate: 578233.09887244
Alt Map Number:		GPS Date:	GPS Located: False
Pressure Zone:	Gravity System FTTP	GPS Source:	
Facility:		GIS Sub Type:	

Construction

Replacement Value:	Consequence of Failure:
Replacement Date:	Probability of Failure:
Present Value:	Mitigation:
Remaining Life:	Risk: 0.00
	Replacement Cost:

Inspections

Last Inspection:	General Condition:	Last Exercised Date:
Inspection Frequency:	Next Inspection:	Turns to Exercise:
Route ID:	Last Exercised Date:	
Default WO Cat:	No WO/PM/Req: <input type="checkbox"/>	

Work Orders:							
Work Order:	Main Task:	Problem:	Status:	Status Date:	Start Date:	End Date:	Compl Date:
19-00477	INSTALL NEW VALVE	Install new valve	Complete	1/18/2019	1/10/2019	1/10/2019	
		19/00332					

User 1:		H-Component:	
Set-In:	Blacktop	Cast Date:	
Symbol:		User 9:	
Work Done:	CHAD H	First Located:	
County:	KENTON	Work Completed:	
Cross Street:	GREENUP	GPS Date:	
User 13:	<input type="checkbox"/>	Bypass?:	<input type="checkbox"/>
WO Comment:		GIS Disc:	<input type="checkbox"/>

System Valve Detail Report

3/24/2025
2:12 PM

Valve Number:	C09975	Operating Status:	
User 16:		User 26:	User 36: <input type="checkbox"/>
User 17:		User 27:	User 37: <input type="checkbox"/>
User 18:		User 28:	User 38: <input type="checkbox"/>
User 19:		User 29:	User 39: <input type="checkbox"/>
User 20:		User 30:	User 40: <input type="checkbox"/>
User 21:		User 31:	
User 22:		User 32:	
User 23:		User 33:	
User 24:		User 34:	
User 25:		User 35:	

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number:	C00362	Operating Status:	
Address:	332 GREENUP ST	Sys Valve Rec #:	263
Type	Gate	Size:	6.00
Classification:	Future Tie-In	End Type:	
Access:	Valve Box	Tapping:	
System:	COVINGTON	Operator Type:	Do Not Operate
Manufacturer:		Direction To Open:	Right
Model Number:		Turns to Open:	0.00
Serial Number:	C00362	Oper Nut Size(in):	
Pipe Number:	69	Oper Depth (ft):	0.00
Project Number:		Installation Date:	
Owned By:		Fixed Asset ID:	
Managed by:		Isolation Valve:	<input type="checkbox"/>
		Active:	<input type="checkbox"/>
		Clockwise To Close:	<input type="checkbox"/>
		Currently Open:	<input type="checkbox"/>
		Hydrant Valve:	<input type="checkbox"/>
		Normally Open:	<input type="checkbox"/>
		Operable:	<input type="checkbox"/>

Location

General Location:			
In Easement:	False	Elevation (ft):	X Coordinate: 1567241.07876794
Map Number:	C-363	Alt Elevation (ft):	Y Coordinate: 578240.70679686
Alt Map Number:		GPS Date:	GPS Located: False
Pressure Zone:	Gravity System FTTP	GPS Source:	
Facility:	N. Ky. Water District	GIS Sub Type:	

Construction

Replacement Value:		Consequence of Failure:	
Replacement Date:		Probability of Failure:	
Present Value:		Mitigation:	1.00
Remaining Life:		Risk:	0.00
		Replacement Cost:	

Inspections

Last Inspection:	General Condition:	Last Exercised Date:
Inspection Frequency:	Next Inspection:	Turns to Exercise:
Route ID:	Last Exercised Date:	
Default WO Cat:	No WO/PM/Req: <input type="checkbox"/>	

Work Orders:							
Work Order:	Main Task:	Problem:	Status:	Status Date:	Start Date:	End Date:	Compl Date:
19-07447	VALVE OPERATED	Main Break	Complete	8/6/2019	8/1/2019	8/1/2019	8/1/2019

User 1:		H-Component:	228508.00
Set-In:	Blacktop	Cast Date:	
Symbol:	Committed Valve	User 9:	
Work Done:	1	First Located:	
County:	KENTON	Work Completed:	
Cross Street:	4th ST	GPS Date:	
User 13:	<input type="checkbox"/>	Bypass?:	<input type="checkbox"/>
WO Comment:		GIS Disc:	<input type="checkbox"/>

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number: C00362

Operating Status:

User 16:	User 26:	User 36:	<input type="checkbox"/>
User 17:	User 27:	User 37:	<input type="checkbox"/>
User 18:	User 28:	User 38:	<input type="checkbox"/>
User 19:	User 29:	User 39:	<input type="checkbox"/>
User 20:	User 30:	User 40:	<input type="checkbox"/>
User 21:	User 31:		
User 22:	User 32:		
User 23:	User 33:		
User 24:	User 34:		
User 25:	User 35:		

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number:	C00360	Operating Status:	
Address:	E 4TH ST	Sys Valve Rec #:	254
Type:	Butterfly	Size:	16.00
Classification:	Main Line	End Type:	
Access:	Valve Box	Tapping:	
System:	COVINGTON	Operator Type:	Open
Manufacturer:		Direction To Open:	Right
Model Number:		Turns to Open:	36.00
Serial Number:	C00360	Oper Nut Size(in):	
Pipe Number:	71	Oper Depth (ft):	3.00
Project Number:		Installation Date:	
Owned By:		Fixed Asset ID:	
Managed by:		Isolation Valve:	<input checked="" type="checkbox"/>
		Active:	<input type="checkbox"/>
		Clockwise To Close:	<input type="checkbox"/>
		Currently Open:	<input type="checkbox"/>
		Hydrant Valve:	<input type="checkbox"/>
		Normally Open:	<input type="checkbox"/>
		Operable:	<input type="checkbox"/>

Location

General Location:

In Easement:	False	Elevation (ft):	X Coordinate:	1567272.31525403
Map Number:	C-016-1	Alt Elevation (ft):	Y Coordinate:	578263.31370702
Alt Map Number:		GPS Date:	GPS Located:	False
Pressure Zone:	Gravity System FTTP	GPS Source:		
Facility:	N. Ky. Water District	GIS Sub Type:		

Construction

Replacement Value:	Consequence of Failure:	
Replacement Date:	Probability of Failure:	
Present Value:	Mitigation:	1.00
Remaining Life:	Risk:	0.00
	Replacement Cost:	

Inspections

Last Inspection:	3/8/2016	General Condition:		Last Exercised Date:
Inspection Frequency:		Next Inspection:		Turns to Exercise:

Inspections:				
Inspection Date:	Inspected By:	Overall Condition:	Operating Condition:	Location Condition:
4/6/2010	WM	Good		
4/26/2012	WM	Good		
4/3/2014	WM	Good		
3/8/2016	JM	Good		

Route ID:

Last Exercised Date:

Default WO Cat:

No WO/PM/Req: ☐

Work Orders:	Main Task:	Problem:	Status:	Status Date:	Start Date:	End Date:	Compl Date:
18-01921	VALVE OPERATED	Main Break 18/00159	Complete	2/28/2018	1/6/2018	1/6/2018	1/6/2018
18-11111	VALVE OPERATED	Replace valve 18/07996	Complete	11/8/2018	10/30/2018	10/30/2018	10/30/2018
19-00515	VALVE OPERATED	MISCELLANEOUS-MAI	Complete	1/18/2019	1/9/2019	1/9/2019	1/9/2019
19-03746	VALVE INSPECTION	Valve Inspection Progra	Complete	4/25/2019			
20-09435	VALVE OPERATED	Main Break	Complete	12/8/2020	11/30/2020	11/30/2020	11/30/2020
21-03138	VALVE INSPECTION	Valve Inspection Progra	Complete	4/28/2021			
23-00764	VALVE INSPECTION	Valve Inspection Progra	Complete	2/6/2023			
24-08976	VALVE OPERATED	Main Break 24/05701	Complete	11/5/2024	10/27/2024	10/27/2024	10/27/2024
25-01394	VALVE INSPECTION	Valve Inspection Progra	New Work Order	2/26/2025			

System Valve Detail Report

3/24/2025

2:12 PM

Valve Number:	C00360	Operating Status:	
User 1:		H-Component:	228510.00
Set-In:	Blacktop	Cast Date:	
Symbol:	Committed Valve	User 9:	
Work Done:	1	First Located:	
County:	KENTON	Work Completed:	
Cross Street:	GREENUP	GPS Date:	
User 13:	<input type="checkbox"/>	Bypass?:	<input type="checkbox"/>
		GIS Disc:	<input type="checkbox"/>
WO Comment:			
User 16:		User 26:	User 36: <input type="checkbox"/>
User 17:		User 27:	User 37: <input type="checkbox"/>
User 18:		User 28:	User 38: <input type="checkbox"/>
User 19:		User 29:	User 39: <input type="checkbox"/>
User 20:		User 30:	User 40: <input type="checkbox"/>
User 21:		User 31:	
User 22:		User 32:	
User 23:		User 33:	
User 24:		User 34:	
User 25:		User 35:	



EXHIBIT C

Associated Work Order No. 07-01644**Water Main Work Order**Warehouse Departure Time: N/A**Work Request Number** 07/01043**Status** New Request**Recorded By** TMH**Category** 1700

Water Mains

Recorded Date 03/02/2007 8:12AM**Activity** 200

Main Break

Initiated By tim messmer**Address** 121 E 4TH ST**County** KENT**Cross Street****Zip****City** COVINGTON**Directions:****ENTERED****Project #**620-6002-031**Map Reference**G-5**Pipe #**161**Pipe Diameter**

Inches

Joint Type**Pipe Depth** (top of pipe)

Feet

Inches

Pressure Zone**Frost Depth****Locator Wire**

Yes

No

Soil Type**Comments****Valve Operation Information**

Valve #	Action	Open	Closed

PWSID#0590220**WATER MAIN SHUTDOWN INFORMATION**

Please only fill in this section if valves were operated and a water main was shutdown in the process of completing the work for this workorder.

SHUTDOWN ONLY ☐**WATER MAIN FAILURE** ☒**Date of Shutdown/Failure** 3/2/07 **Time of Shutdown** N/A AM **Duration of Shutdown** N/A Hours**Size of Main** 4" Inches **Type of Pipe:** DI(1), CI(2), PVC(3), Transite(4), Steel(5), Concrete(6) 1**Pipe Joint** Slip(1), MJ(2), Unknown(3), Lead(4) 4 **Cover:** 4' **Soil Type** Clay(1), Silt(2), Sand(3), Gravel(4), Clay/rock(5), Clay/sand(6) 1**Interior Condition:** Has Corrosion (5) 5 **Exterior Condition:** Electrolysis(5), Corrosion(6), Electrolysis/Corrosion(7) 7**Approx. Inside Dia. with Corrosion:** 1 1/2 Inches**Amount of Water Lost:** 10,000 Gallons**Customers Notified:** Yes ☒ No ☒ If "no" explain Repaired under Pressure**Number of Customers Affected:** 0 **Reason for Shutdown:** N/A Code**Reason for Shutdown:** (Explained) N/A**Number of Valves Involved in Shutdown:** N/A **Shutdown Quality:** Good (1) Fair (2) Poor (3) ✓**Weather Conditions:** ☒ Clear ☐ Rain ☐ Snow**SAMPLE NUMBER:** N/A **INITIALS:** N/A **SAMPLE ADDRESS:** N/A**CHLORINE READING:** N/A **SAMPLE DATE:** N/A **SAMPLE TIME:** N/A AM PM**MAIN FAILURE INFORMATION****Nature of Break:** No Break (0) Circumferential (1) Longitudinal (2) Both (3) ✓
Blow-Out (4) Joint Failure (5) Split Corp (6) Sleeve (7)**Apparent cause of Break:** Water Hammer (surge) (1) Defective pipe (2) Corrosion (3) Improper Bedding (4) ✓
Excessive Pressure (5) Deterioration (6) Contractor (7) Temperature Change (8) ✓
Settlement (9) Miscellaneous (10)



EXHIBIT D

Work Request Number 19/00332Status New RequestRecorded By afletcherCategory 1600

Valves

Recorded Date 01/16/2019 3:38PMActivity 206

Install new valve

Initiated By CHAD HOPKINSAddress E 4TH ST
Cross Street GREENUP ST
City COVINGTONCounty KENT
Zip _____

Directions: _____

Project # 620-6002-031
Valve # New valve.
Valve Type API Gate 8"
Manufacturer AFC
Set-In B/T
Bypass? NO
Operator Depth 7.5' FeetMap Reference # C-363
Valve Size 8
Valve Status Open ☒ Closed
Direction to Open Right ☒ Left
Number of Turns 25Maintenance Type: ☐ 8 - Charge to Mapping Report

Valve Operation Information			
Valve #	Action	Open	Closed
GBA			
SAME as #			
19/00332			

PWSID# 0590220

WATER MAIN SHUTDOWN INFORMATION

EPA# 70559

Please only fill in this section if valves were operated and a water main was shutdown in the process of completing the work for this workorder

Date of Shutdown 1/10/19 Time of Shutdown 9:30 AM PM Duration of Shutdown 7.5 HoursSize of Main 20 Inches Type of Pipe: DI(1), CI(2), PVC(3), Transite(4), Steel(5), Concrete(6) 2Pipe Joint: Slip(1), MJ(2), Unknown(3), Lead(4) 3 Cover: 8' Soil Type: Clay(1), Silt(2), Sand(3), Gravel(4), Clay/rock(5) 1,3Interior Condition: Has Corrosion (5) 5 Exterior Condition: Electrolysis(5), Corrosion(6) Electrolysis/Corrosion(7) 7Approx. Inside Dia. with Corrosion: 18 InchesAmount of Water Lost: 268,345 GallonsCustomers Notified: ☒ Yes ☐ No If "no" explain: _____Number of Customers Affected: 100 Reason for Shutdown: 206 Code

Reason for Shutdown: (Explained) _____

Number of Valves Involved in Shutdown: 13 Shutdown Quality: 1 Good (1) Fair (2) Poor (3)Weather Conditions: ☒ Clear ☐ Rain ☐ SnowSAMPLE NUMBER: M31 INITIALS: DSB SAMPLE ADDRESS: 5th & Greenup.
CHLORINE READING: .81 SAMPLE DATE: 1/10/19 SAMPLE TIME: 5:20 AM ☒ PMSAMPLE NUMBER: _____ INITIALS: _____ SAMPLE ADDRESS: _____
CHLORINE READING: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ AM ☐ PM

EMAILED

JAN 18

ON THIS DATE

Work Request Number 19/00332**Status** New Request**Recorded By** afletcher**Category** 1600 Valves**Recorded Date** 01/16/2019 3:38PM**Activity** 206 Install new valve**Address** E 4TH ST**City** COVINGTON**Initiated By** CHAD HOPKINS**Crew Information:**

CREW SIZE

8

AVG HOURS TO DO JOB

10.5

Restoration Information:NEEDS MILLING AND PAVING? ☐ YES

BLACKTOP SIZE? _____

PLATE? _____

CONCRETE SIZE? _____

PLATE? _____

TOPSOIL SIZE? _____

PLATE? _____

SPECIAL RESTORATION _____

PLATE? _____

☐ R ☐ NR☐ R ☐ NR☐ R ☐ NR☐ R ☐ NR☐ (0) HIGH TRAFFIC☐ (1) GRASS OR DIRT☐ (2) BLACKTOP STREET☐ (3) BLACKTOP & CONCRETE STREET☐ (4) CONCRETE STREET☐ (5) STREETCAR TRACKS☐ (6) RED BRICK☐ (7) CONCRETE SIDEWALK☐ (8) CONCRETE DRIVEWAY☐ (9) GRAVEL☐ (10) FENCE/WALL**Comments:** _____**Waste Disposal Information****Employee****Equipment (Truck #)****Cu. yds****Type of Material**

Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood
<input checked="" type="checkbox"/>						

Description**Date****Time**

60583

332

6

Richies

1/10/19 10:00

AM PM

AM PM

AM PM

AM PM

Labor**Equipment****Material**

Employee Name	Regular Hours	Stay Late OT	Unexc. Call-In OT	Scheduled OT	Hours Worked Between	Description	Hours	Code	Quantity
Derek B 60540	8	2.0	.5		to	238	10.5	615	1
Kevin K 60521	8	2	.5		to	303	10.5	587	1
Jared Martin 606	8	2	.5		to	266	10.5	599	1
TS 60583	8	2	.5		to	310	10.5	603	1
David G 60534	8	2	.5		to	302	10.5		
Eric R 60526	8	2	.5		to	331	10.5		
Tyler 60608	8	2	.5		to	N3	10.5		
Bob 60604	8	2	.5		to				

Call-Out Information**Responded From**

HOME

FACILITY

Employee Called

AM PM

☐ Customer Service☐ Answering Service☐ Other**Employee Arrived On Job Site**

AM PM

Completed By**Date****Time****Sign-off**



EXHIBIT E

Work Request Number 20/05704Status New RequestRecorded By ksmithCategory 1700

Water Mains

Recorded Date 12/04/2020 8:04AMActivity 200

Main Break

Initiated By DAVID GOSNEYAddress ~~GREENUP ST~~ E. 4th St.County KENTCross Street ~~E 4TH ST~~ Greenup St.

Zip _____

City COVINGTON

Directions: _____

Project # 620-6002-031Map Reference C-016Pipe # 21Tracing Wire: ☐

Comments _____

Valve Operation Information			
Valve #	Action	Open	Closed
✓ C00360	Right	36	36
✓ C00358	Right	20	20
✓ C09374	Right	27	27
✓ C00353	Right	37	37

PWSID#0590220

WATER MAIN SHUTDOWN INFORMATION

Please only fill in this section if valves were operated and a water main was shutdown in the process of completing the work for this workorder.

SHUTDOWN ONLY ☐WATER MAIN FAILURE ☒Date of Shutdown/Failure 11-30-20 Time of Shutdown 3:45 AM _____ PM _____ Duration of Shutdown 6.25 HoursSize of Main: (Inches) 16Type of Pipe: DI(1), CI(2), PVC(3), Transite(4), Steel(5), Concrete 2Pipe Joint: Slip(1), MJ(2), Unknown(3), Lead(4) 3Interior Lining: Unlined(0), Cement(1), Epoxy(2) 0Exterior Wrap: Wrapped(1), Unwrapped(2) 2Exterior Condition: Good(1), Fair(2), Poor(3) 1Number of Valves Involved in shutdown: 4Reason for Shutdown: (WO Code) 200Reason for Shutdown: (Explanation) Main BreakShutdown Quality: Good(1), Fair(2), Poor(3) 1Number of Customers Affected: 0Customers Notified: ☐ Yes ☒ NoIf "no" explain Emergency

Nature of Break:

Circumferential(1), Longitudinal(2), Both(3), Blow-Out (4), Joint Failure(5), Split Corp(6), Sleeve(7) 4Water Lost: 300,000 Gal.

Clean/Flush Loss:

Gal.

Cover: 5'Weather Conditions: ☒ Clear ☐ Rain ☐ SnowSAMPLE NUMBER: _____ INITIALS: _____ SAMPLE ADDRESS: No Sample Point

CHLORINE READING: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ AM _____ PM

SAMPLE NUMBER: _____ INITIALS: _____ SAMPLE ADDRESS: _____

CHLORINE READING: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ AM _____ PM

Work Request Number 20/05704**Status** New Request**Recorded By** ksmith**Category** 1700 Water Mains**Recorded Date** 12/04/2020 8:04AM**Activity** 200 Main Break**Address** GREENUP ST**City** COVINGTON**Initiated By** DAVID GOSNEY**Crew Information:**

CREW SIZE

8

AVG HOURS TO DO JOB

7.25

Restoration Information:NEEDS MILLING AND PAVING? ☐ YES

BLACKTOP SIZE?

8x15

PLATE?

3-6x12

CONCRETE SIZE?

PLATE?

TOPSOIL SIZE?

PLATE?

SPECIAL RESTORATION?

PLATE?

☒ R ☐ NR☐ R ☐ NR☐ R ☐ NR☐ R ☐ NR☐ (0) HIGH TRAFFIC☐ (1) GRASS OR DIRT☒ (2) BLACKTOP STREET☐ (3) BLACKTOP & CONCRETE STREET☐ (4) CONCRETE STREET☐ (5) STREETCAR TRACKS☐ (6) RED BRICK☐ (7) CONCRETE SIDEWALK☐ (8) CONCRETE DRIVEWAY☐ (9) GRAVEL☐ (10) FENCE/WALL**Comments:**

OPT3

Waste Disposal Information**Type of Material**

Employee	Equipment (Truck #)	Cu. yds	Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood	Description	Date	Time	
Robert-60609	287	6	x			x	x			Asph	12-1-20	2:30 AM	PM
Kevin-60521	332	4	x			x	x			Asph	12-1-20	8:30 AM	PM
												AM	PM
												AM	PM

Labor**Equipment****Material**

Employee Name	Regular Hours	Stay Late OT	Call-In OT	Scheduled OT	Hours Worked Between	Description	Hours	Code	Quantity
David-60534	3		8.5		to	306	91.5	206	2
Robert-60609	3		8		to	313	16	212	4ft
Austin-60651	3		8		to	287	10		
Andrew-60662	3		5.5		to	N-3	10		
Dillon-60568	4				to	DT-15	10		
Bill-60653	4				to	332	8		
Kevin-60521	4				to	236	8		
Chad-60479	4				to				

Call-Out Information

Responded From

HOME

FACILITY

☐ Customer Service☒ Answering Service☐ Other

Employee Called

10:30

AM

PM

Employee Arrived On Job Site

11:30

AM

PM

Completed By

David

Date

12-1-20

Time**Sign-off**

Jason Miller

Blacktop Restoration Work Order

Restoration WO#
20-09434

Initiating Request # 20/05704
Initiating WO# 20-09433
Initiating WSC# Not a Water Service Contract

Address: E 4TH ST

City: COVINGTON

Cross Street: GREENUP ST

Foreman: DAVID GOSNEY

Work done: Main Break

Contractor: HALLS PAVING

Special Restoration

Special Notes: 8x15, RE-DO

Given to Contractor: 1/25/2021

Date Completed: 1/27/2021

Related Site Restoration: No special restoration notes could be found.
No brick paver restoration needed or no notes could be found
No concrete restoration needed or no notes could be found
No topsoil restoration needed or no notes could be found

Additional Notes:

$11 \times 15 = 165$
 $3 \times 4 = 12$
 $177 \times 7.50 = 1327.50$



Waste Disposal Information

Type of Material

Employee	Equipment (Truck #)	Cu. yds	Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood	Description	Date	Time
												AM PM
												AM PM

Employee #	Rg. Hrs.	Ot. Hrs.	Equipment	Rg. Hrs.	Material	Yds.
40650			50		10001	
20700						
60523						
60524						
60526						

FAXED
1/25 @ 3:55



EXHIBIT F

20-08653

Work Request Number 20/04980

Status New Request

Recorded By afletcher

Category 1700

Water Mains

Recorded Date 10/19/2020 12:46PM

Activity 200

Main Break

Initiated By EDDIE SCHAWA

Address E 4TH ST
 Cross Street GREENUP ST
 City COVINGTON
 Directions:

County KENT
 Zip

Project # 670-6003-031

Map Reference C-016

Pipe # 161

Tracing Wire: ☐

Comments

Valve Operation Information

Valve #	Action	Open	Closed
✓ C00361	R	12	12
✓ C00657	R	12	12
✓ C00652	R	24	24

PWSID#0590220

WATER MAIN SHUTDOWN INFORMATION

EPA#84901

Please only fill in this section if valves were operated and a water main was shutdown in the process of completing the work for this workorder.

SHUTDOWN ONLY ☐WATER MAIN FAILURE ☒

Date of Shutdown/Failure 10-18-2020 Time of Shutdown AM 12 PM Duration of Shutdown 2 Hours

Size of Main: (Inches) 4

Reason for Shutdown: (WO Code) 200

Type of Pipe: DI(1), CI(2), PVC(3), Transite(4), Steel(5), Concrete 2

Reason for Shutdown: (Explanation) Mainbreak

Pipe Joint: Slip(1), MJ(2), Unknown(3), Lead(4) 3

Shutdown Quality: Good(1), Fair(2), Poor(3) 1

Interior Lining: Unlined(0), Cement(1), Epoxy(2) 0

Exterior Wrap: Wrapped(1), Unwrapped(2) 2

Number of Customers Affected: 8

Exterior Condition: Good(1), Fair(2), Poor(3) 2

Customers Notified: Yes No

Number of Valves Involved in shutdown: 3

If "no" explain

Nature of Break:

Circumferential(1), Longitudinal(2), Both(3), Blow-Out (4),
 Joint Failure(5), Split Corp(6), Sleeve(7) 3

Water Lost: 145,000 Gal.

Clean/Flush Loss: 20,000 Gal.

Cover: 5'

Weather Conditions: ☐ Clear ☒ Rain ☐ Snow

SAMPLE NUMBER: 579 INITIALS: PL SAMPLE ADDRESS: 420 Greenup St Cov
 CHLORINE READING: .64 SAMPLE DATE: 10-19-20 SAMPLE TIME: 2 AM
 SAMPLE NUMBER: INITIALS: SAMPLE ADDRESS:
 CHLORINE READING: SAMPLE DATE: SAMPLE TIME: AM PM

EMAILED

NOV 04

ON THIS DATE

Work Request Number 20/04980**Status** New Request**Recorded By** afletcher**Category** 1700 Water Mains**Recorded Date** 10/19/2020 12:46PM**Activity** 200 Main Break**Address** E 4TH ST**City** COVINGTON**Initiated By** EDDIE SCHAW**Crew Information:**

CREW SIZE

6

AVG HOURS TO DO JOB

15

Restoration Information:NEEDS MILLING AND PAVING? ☐ YES

BLACKTOP SIZE?

4x32

PLATE?

4-(6x12)

CONCRETE SIZE?

PLATE?

TOPSOIL SIZE?

PLATE?

SPECIAL RESTORATION?

PLATE?

☒ R☐ R☐ NR☐ R☐ NR☐ R☐ NR☐ (0) HIGH TRAFFIC☐ (1) GRASS OR DIRT☒ (2) BLACKTOP STREET☐ (3) BLACKTOP & CONCRETE STREET☐ (4) CONCRETE STREET☐ (5) STREETCAR TRACKS☐ (6) RED BRICK☐ (7) CONCRETE SIDEWALK☐ (8) CONCRETE DRIVEWAY☐ (9) GRAVEL☐ (10) FENCE/WALL**Comments:**

OPT #3

**Waste Disposal Information****Type of Material****Employee****Equipment (Truck #)****Cu. yds**

Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood

Description**Date****Time**

Mike A

300

6

New Agues

10/17/2020

3:00 AM

PM

Mike A

300

5

New " "

10/17/2020

10:00 AM

PM

Mike A

300

6

New " "

10/18/2020

4:00 AM

PM

Labor**Equipment****Material**

Employee Name	Regular Hours	Stay Late OT	Call-In OT	Scheduled OT	Hours Worked Between
Eddie S 4122J			25		to
Mike A 60597			23		to
Austin			23		to
Clint			8		to
Jordan			8		to
Jeremy			8		to
					to

Description	Hours
300	25
270	23
240	
880n-2	
DT18	
420	8
310	8

Code	Quantity
462	2
480	3'

Call-Out Information**Responded From**

HOME

FACILITY

Employee Called

AM

PM

☐ **Customer Service**☐ **Answering Service**☐ **Other****Employee Arrived On Job Site**

AM

PM

Completed By

Clint Riley

Date

10-19-20

Time**Sign-off**

Jason Miller

Blacktop Restoration Work Order

Restoration WO#
20-08654

Initiating Request # 20/04980
Initiating WO# 20-08653
Initiating WSC# Not a Water Service Contract

Address: E 4TH ST City: COVINGTON
Cross Street: GREENUP ST Foreman: CLINT RILEY
Work done: Main Break
Contractor: HALLS PAVING

Special Restoration

Special Notes: **4x13, PLATES=(4) 6x12**

Given to Contractor: 11/3/2020

Date Completed: 11/8/2021

Related Site Restoration: No special restoration notes could be found.
No brick paver restoration needed or no notes could be found
No concrete restoration needed or no notes could be found
No topsoil restoration needed or no notes could be found

Additional Notes:

5x7=35
4x12=48
7x21=147
230x7.50=1725.00



Waste Disposal Information

Type of Material

Employee	Equipment (Truck #)	Cu. yds	Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood	Description	Date	Time
												AM PM
												AM PM

Employee #	Rg. Hrs.	Ot. Hrs.	Equipment	Rg. Hrs.	Material	Yds.
40650			50		10001	
20700						
60523						
60524						
60526						

FAXED
11/60336



EXHIBIT G

Blacktop Restoration Work Order

Restoration WO#
24-08975

Initiating Request # 24/05761

Initiating WO# 24-08974

Initiating WSC# Not a Water Service Contract

Address: E 4TH ST

City: COVINGTON

Cross Street: GREENUP ST

Foreman: LAYNE SEIBERT

Work done: Main Break

Contractor: INDEPENDENCE PAVING, LLC



Special Restoration

Special Notes: **20x10 Plate=(4) 12x6**

Given to Contractor: 11/5/2024

Date Completed: 1/3/2025

Related Site Restoration: No special restoration notes could be found.
No brick paver restoration needed or no notes could be found
No concrete restoration needed or no notes could be found
No topsoil restoration needed or no notes could be found

Additional Notes:

3,096 SF X 9.50

Waste Disposal Information

Type of Material

Employee	Equipment (Truck #)	Cu. yds	Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood	Description	Date	Time
												AM PM
												AM PM

Employee #	Rg. Hrs.	Ot. Hrs.	Equipment	Rg. Hrs.	Material	Yds.
40650			50		10001	
20700						
60523						
60524						
60526						

Associated Work Order No. 24 - 02408

Water Main Work Order

Warehouse Departure Time: _____

Work Request Number 24/01452
Recorded By tedgerton
Recorded Date 03/18/2024 9:32AM

Status New Request
Category 1700 Water Mains
Activity 200 Main Break

Initiated By JACK CUNNINGHAM

EPA# 120501

Address E 4TH ST
Cross Street GREENUP ST
City Covington
Directions: Cut tee out. Fixed

County KENT
Zip

MAP



Project # 620-6002-031
Pipe # 74
Comments

Map Reference C-363

Tracing Wire: ☐

#24-02409

Valve Operation Information			
Valve #	Action	Open	Closed
C00657	R	25	25
C00652	R	24	24
C00361	R	13	13

PWSID#0590220

WATER MAIN SHUTDOWN INFORMATION

Please only fill in this section if valves were operated and a water main was shutdown in the process of completing the work for this workorder.

SHUTDOWN ONLY ☐

WATER MAIN FAILURE ☒

Date of Shutdown/Failure 3-15-24 **Time of Shutdown** 7:00 AM **PM** **Duration of Shutdown** 6 Hours

Size of Main: (Inches) 8x8x4
Type of Pipe: DI(1), CI(2), PVC(3), Transite(4), Steel(5), Concrete 2
Pipe Joint: Slip(1), MJ(2), Unknown(3), Lead(4) 4
Interior Lining: Unlined(0), Cement(1), Epoxy(2) 0
Exterior Wrap: Wrapped(1), Unwrapped(2) 2
Exterior Condition: Good(1), Fair(2), Poor(3) 2
Number of Valves Involved in shutdown: 3

Reason for Shutdown: (WO Code) 200
Reason for Shutdown: (Explanation) main Break
Shutdown Quality: Good(1), Fair(2), Poor(3) 2
Number of Customers Affected: 10
Customers Notified: ☒ Yes ☐ No
If "no" explain emergency

Nature of Break:

Circumferential(1), Longitudinal(2), Both(3), Blow-Out (4),
Joint Failure(5), Split Corp(6), Sleeve(7) 5

Water Lost: 700,000 Gal. **Clean/Flush Loss:** 150,000 Gal.

Cover: 4 **Weather Conditions:** ☒ Clear ☐ Rain ☐ Snow

SAMPLE NUMBER: K97 **INITIALS:** SC **SAMPLE ADDRESS:** 419 Greenup St
CHLORINE READING: 184 **SAMPLE DATE:** 3-16-24 **SAMPLE TIME:** 1:45 **AM** **PM**
SAMPLE NUMBER: _____ **INITIALS:** _____ **SAMPLE ADDRESS:** _____
CHLORINE READING: _____ **SAMPLE DATE:** _____ **SAMPLE TIME:** _____ **AM** **PM**

EMAILED

APR 2

ON THIS DATE

3129-MFB

Work Request Number 24/01452**Status** New Request**Recorded By** tedgerton**Category** 1700 Water Mains**Recorded Date** 03/18/2024 9:32AM**Activity** 200 Main Break**Address** E 4TH ST**City** Covington**Initiated By** JACK CUNNINGHAM**Crew Information:**

CREW SIZE

6

AVG HOURS TO DO JOB

5.8**Restoration Information:**

NEEDS MILLING AND PAVING?

☒ YES

BLACKTOP SIZE?

7x6

PLATE?

2 6x8's☒ R☐ NR

CONCRETE SIZE?

PLATE?

☐ R☐ NR

TOPSOIL SIZE?

PLATE?

☐ R☐ NR

SPECIAL RESTORATION?

PLATE?

☐ R☐ NR☐ (0) HIGH TRAFFIC☒ (1) GRASS OR DIRT☒ (2) BLACKTOP STREET☐ (3) BLACKTOP & CONCRETE STREET☐ (4) CONCRETE STREET☐ (5) STREETCAR TRACKS☐ (6) RED BRICK☐ (7) CONCRETE SIDEWALK☐ (8) CONCRETE DRIVEWAY☐ (9) GRAVEL☐ (10) FENCE/WALL**Comments:****Waste Disposal Information****Employee****Equipment (Truck #)****Cu. yds****Type of Material**

Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood
		<input checked="" type="checkbox"/>				

Description**Date****Time**Charlie3383aglm3-16-241:00

AM

PM

AM

PM

AM

PM

AM

PM

Labor**Equipment****Material**

Employee Name	Regular Hours	Stay Late OT	Call-In OT	Scheduled OT	Hours Worked Between	Description	Hours	Code	Quantity
Jack 60667			7.5		7am to 2:30pm	236	8	586	2
Clint 60584			7		8am to 2:30pm	308	8	462	1
Charlie 60674			7		8am to 2:30	338	8	602	5ft
Devon 60697			4.5		3:30am to 8pm	DT-15	8	614	1
Hunter 60690			4.5		3:30pm to 8pm	N-4	8	480	2ft
Ronnie Blevins 60523			4.5		3:30am to 8pm				

Call-Out Information**Responded From**☒ HOME☐ FACILITY**Employee Called**6:30

AM

PM

☐ Customer Service☒ Answering Service☐ Other**Employee Arrived On Job Site**7:00

AM

PM

Completed ByJack Cunningham**Date**3-16-24**Time****Sign-off**CH/ Jason Miller

Blacktop Restoration Work Order

Restoration WO#
24-02410

Initiating Request # 24/01452
Initiating WO# 24-02408
Initiating WSC# Not a Water Service Contract

Address: E 4TH ST

City: COVINGTON

Cross Street: GREENUP ST

Foreman: JACK CUNNINGHAM

Work done: Main Break

Contractor: HALLS PAVING

Special Restoration

Special Notes: **7x6 (Plates 2 6x8)**



Given to Contractor: 3/26/2024

Date Completed: 4/5/24

Related Site Restoration: No special restoration notes could be found.
No brick paver restoration needed or no notes could be found
No concrete restoration needed or no notes could be found
No topsoil restoration needed or no notes could be found

Additional Notes:

$10 \times 6 = 60 \times 8.50 = 510$

Inv # 366497

Waste Disposal Information

Type of Material

Employee	Equipment (Truck #)	Cu. yds	Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick	Wood	Description	Date	Time	AM	PM

Employee #	Rg. Hrs.	Ot. Hrs.	Equipment	Rg. Hrs.	Material	Yds.
40650			50		10001	
20700						
60523						
60524						
60526						

FAXED
4/1 @ 10:06 AM



EXHIBIT H

Associated Work Order No. 24-08974**Water Main Work Order**

Warehouse Departure Time: _____

Work Request Number 24/05761**Status** New Request

MAP

Recorded By tedgerton**Category** 1700

Water Mains

Recorded Date 10/28/2024 8:08AM**Activity** 200

Main Break

Initiated By LAYNE SEIBERT

CPAW 128789

Address E 4TH ST
Cross Street GREENUP ST
City Covington
Directions:**County** KENT
Zip**Project #** 620-6002-031**Map Reference** C-016-1**Pipe #** 71**Tracing Wire:** ☐**Comments** Cut out 4' of
16" Pipe.

Valve Operation Information <u>24-08974</u>			
Valve #	Action	Open	Closed
00360	R	37	
00358	R	23	
00374	R	27	
00353	R	37	

PWSID#0590220**WATER MAIN SHUTDOWN INFORMATION**

Please only fill in this section if valves were operated and a water main was shutdown in the process of completing the work for this workorder.

SHUTDOWN ONLY ☐**WATER MAIN FAILURE** ☒**Date of Shutdown/Failure** 10/27/24 **Time of Shutdown** 6:00 AM ☐ PM **Duration of Shutdown** 12 Hours**Size of Main:** (Inches) 16"**Type of Pipe:** DI(1), CI(2), PVC(3), Transite(4), Steel(5), Concrete 2**Pipe Joint:** Slip(1), MJ(2), Unknown(3), Lead(4) 1**Interior Lining:** Unlined(0), Cement(1), Epoxy(2) 0**Exterior Wrap:** Wrapped(1), Unwrapped(2) 2**Exterior Condition:** Good(1), Fair(2), Poor(3) 3**Number of Valves Involved in shutdown:** 4**Reason for Shutdown:** (WO Code) 200**Reason for Shutdown:** (Explanation) MLB**Shutdown Quality:** Good(1), Fair(2), Poor(3) 2**Number of Customers Affected:** 0**Customers Notified:** ☐ Yes ☐ No

If "no" explain _____

Nature of Break:Circumferential(1), Longitudinal(2), Both(3), Blow-Out (4),
Joint Failure(5), Split Corp(6), Sleeve(7) 4**Water Lost:** 600,000 Gal. **Clean/Flush Loss:** 25,000 Gal.**Cover:** 10'**Weather Conditions:** ☒ Clear ☐ Rain ☐ Snow

SAMPLE NUMBER: <u>P48</u>	INITIALS: <u>LS</u>	SAMPLE ADDRESS: <u>4th & Sanford St</u>
CHLORINE READING: <u>1.17</u>	SAMPLE DATE: <u>10/27/24</u>	SAMPLE TIME: <u>10:50</u> AM <input checked="" type="radio"/> PM
SAMPLE NUMBER: _____	INITIALS: _____	SAMPLE ADDRESS: _____
CHLORINE READING: _____	SAMPLE DATE: _____	SAMPLE TIME: _____ AM <input type="radio"/> PM

EMAILED

JAN 14

ON THIS DATE

Work Request Number 24/05761 **Status** New Request
Recorded By tedgerton **Category** 1700 Water Mains
Recorded Date 10/28/2024 8:08AM **Activity** 200 Main Break
Address E 4TH ST **City** Covington
Initiated By LAYNE SEIBERT

Crew Information: CREW SIZE 8 AVG HOURS TO DO JOB 12

Restoration Information: NEEDS MILLING AND PAVING? ☐ YES

BLACKTOP SIZE? 200 20x10 ☒ R ☐ NR
PLATE? 4 12x6

CONCRETE SIZE? _____ ☐ R ☐ NR
PLATE? _____

TOPSOIL SIZE? _____ ☐ R ☐ NR
PLATE? _____

SPECIAL RESTORATION? _____ ☐ R ☐ NR
PLATE? _____

Comments: _____

☐ (0) HIGH TRAFFIC
☐ (1) GRASS OR DIRT
☒ (2) BLACKTOP STREET
☐ (3) BLACKTOP & CONCRETE STREET
☐ (4) CONCRETE STREET
☐ (5) STREETCAR TRACKS
☐ (6) RED BRICK
☐ (7) CONCRETE SIDEWALK
☐ (8) CONCRETE DRIVEWAY
☐ (9) GRAVEL
☐ (10) FENCE/WALL

Waste Disposal Information			Type of Material						Description	Date	Time	
Employee	Equipment (Truck #)	Cu. yds	Sand	Gravel	Soil-Clay	Asphalt	Concrete	Brick			AM	PM
Bryan-60681	337	6							Area dr	10/27		
Josh-60668	330	6			X	X	X					

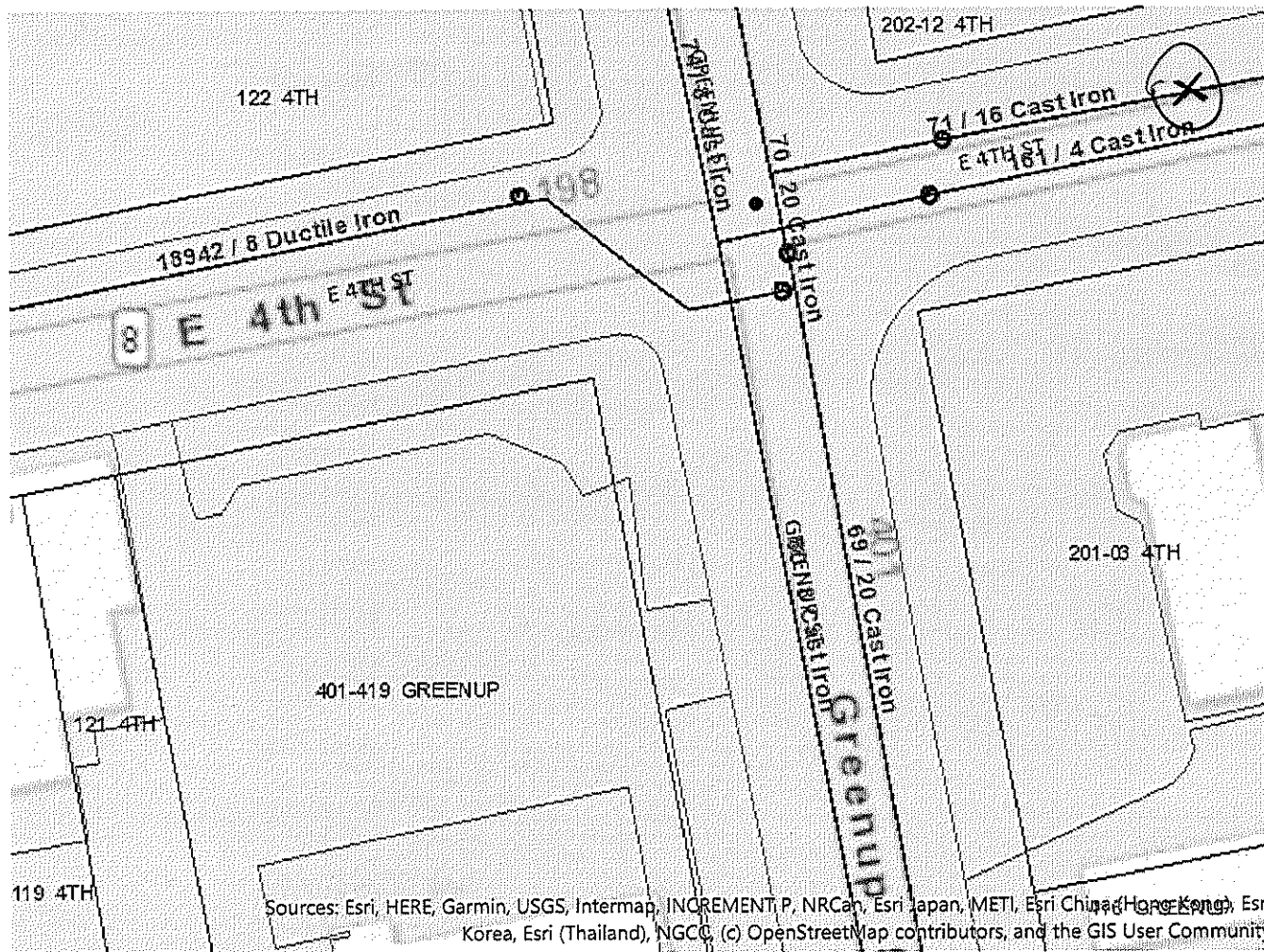
Labor					Equipment		Material		
Employee Name	Surf	5	5	5	Description	Hours	Code	Quantity	
Anthony-60778 - 5					300	18	206	2	
Layne-606					337	20	212	41	
Bryan-606					1306	20			
cadon-607					DT-12	20			
Josh-60668					318	6			
gaye-6075					311	5			
Jan-60663					314	16			
Steve-6076					330	16			

Call-Out Information

Completed By Layne Seibert **Date** 10/27/24 **Time** _____

Sign-off Jason Miller

Employee Called _____ **AM** **PM**
Employee Arrived On Job Site _____ **AM** **PM**



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

NORTHERN KENTUCKY WATER DISTRICT

Response to Commission Staff's First Request for Information

CASE NO. 2025-00007

**WITNESS – Tom Edge, General Counsel and Director of Compliance, Communications and
Regulatory Affairs**

**Q.2. All other information that Northern Kentucky District deems relevant to the matters raised
in Ron's Food Mart Complaint attached as Appendix B.**

A.2. NKWD states as follows:

- NKWD repairs leaks and breaks on its mains as soon as practical once encountered.
- For the 2024 Water Main Break raised in the Complaint, the matter was turned over to NKWD's insurance provider, Traveler's Insurance, in accordance with the terms of NKWD's Insurance Policy with Traveler's Insurance. The matter was assigned Claim #F3T9012. It is my understanding that the Complainant and the assigned claim adjuster for Traveler's Insurance are in contact.
- For the 2020 Water Main Break raised in the Complaint, the matter was turned over to NKWD's insurance provider, Traveler's Insurance, in accordance with the terms of NKWD's Insurance Policy with Traveler's Insurance. In 2020, the matter was assigned Claim #FQL0809.
- NKWD states it replaces water mains in accordance with its Water Main Replacement Program, more particularly outlined in the previous response to the Request for Information Question #1.
- NKWD does not respond to fuel spills. In the event NKWD comes across spilled fuel or other hazardous substance, NKWD contacts local authorities including the respective County Emergency Management Office.

AFFIDAVIT OF TOM EDGE

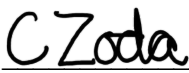
COMMONWEALTH OF KENTUCKY)
)SS
COUNTY OF KENTON)

Comes now affiant, Tom Edge after being first sworn, deposes, and states that he is the General Counsel and Director of Compliance, Communication and Regulatory Affairs for the Northern Kentucky Water District, that he is authorized to submit these Responses on behalf of Northern Kentucky Water District, and that the information contained in the Responses is true and correct to the best of his knowledge and belief, except as to those matters that are based on information provided to him and, as to those, he believes that information to be true and correct.



Tom Edge

This instrument was acknowledged, signed and declared by Tom Edge to be his act and deed the 28th day of March 2025.



Notary Public, Kentucky at Large
Notary ID Number: KYNP57619
My Commission Expires: 08/22/2026

AFFIDAVIT OF KYLE RYAN

COMMONWEALTH OF KENTUCKY)
)SS
COUNTY OF KENTON)

Comes now affiant, Kyle Ryan after being first sworn, deposes, and states that he is the Engineering Manager – Design & Construction for the Northern Kentucky Water District, that he is authorized to submit these Responses on behalf of Northern Kentucky Water District, and that the information contained in the Responses is true and correct to the best of his knowledge and belief, except as to those matters that are based on information provided to him and, as to those, he believes that information to be true and correct.



Kyle Ryan

This instrument was acknowledged, signed and declared by Kyle Ryan to be his act and deed the 28th day of March 2025.



Notary Public, Kentucky at Large
Notary ID Number: KYNP57619
My Commission Expires: 08/22/2026