

WESTERN FLEMING COUNTY WATER DISTRICT

CASE 2022-00305

UNACCOUNTED FOR WATER LOSS REDUCTION PLAN, SURCHARGE AND MONITORING

Question 1

Respondent: Alison Hazelrigg, Vernon Barton

- a. Explain the need for replacement of Western Fleming County Water District's meters.

Meters are reaching the ten-year replacement mark. We are also looking for better accuracy and quicker leak detection.

- b. Provide a breakdown of average age for each type of meter that WFCWD currently has in service.

Residential meters - 9 years for meters that have not been replaced in the past year.
Commercial meters - 3 years

- c. Explain any problems WFCWD is experiencing with its existing meters.

A majority of the current radio read meters will not transmit the reading to the meter reading computer. Thus, requiring the operator to manually read the meters requiring an additional trip once the readings are uploaded to the office computer.

- d. Explain whether any of WFCWD's current meters are under warranty, and whether any warranty claims have been made.

There is no warranty on the current meters and no warranty claims have been made. The new meters have a 10 year warranty on the end point and 15 year warranty on the meter.

- e. Provide the number meters WFCWD plans to replace and timeline under which it plans to implement these replacements.

Before the water loss surcharge WFCWD had begun to replace its older meters. Currently approximately 230 meters need to be replaced and this can be accomplished within the next six months permitted the water loss surcharge is approved for replacing the meters

- f. Provide details regarding the make and model for the proposed replacement cellular water meters and the cost for each meter.

Badger meter \$145.35
Orion Endpoint \$149.21

- g. Provide a copy of estimates WFCWD received for the purchase and installation of proposed replacement cellular water meters.

Installation price of \$25 per meter see attached quote

- h. Explain whether WFCWD plans to use water loss surcharge funds toward the meter replacement project.

If possible, WFCWD will access funds from the surcharge account to offset some of the

cost of the meters and installation.

- i. The proposed water meter replacement project is estimated to cost \$144,477 plus installation. Explain how WFCWD plans to fund the total amount of the project.

WFCWD plans to use the surcharge to fund the purchase and installation of the remaining meters. If not approved to use the surcharge WFCWD will either use funds from the operating account if available or another source of funding.

- j. Confirm whether WFCWD has sought or plans to see a declaratory order finding the project falls within the ordinary course of business or seeks certificate of public convenience and necessity from the Commission for this project. If not confirmed, explain why not.

WFCWD plans to seek a declaratory order, but we have not yet.

Question 2

Respondent: Alison Hazelrigg, Vernon Barton

- a. Provide any details of WFCWD's proposed line replacement project, including the linear feet and diameter of the line to be replaced.

See attached. WFCWD plans to complete this project in the next 2-4 years.

- b. Provide a copy of all estimates received by WFCWD regarding the total estimated cost of \$2,780,000 for the proposed line replacement project..

Please see attached.

- c. Explain whether WFCWD plans to use any water loss surcharge funds towards the proposed line replacement project.

We would request surcharge funds if they were available and needed to help finance the project.

- d. Explain whether WFCWD has sought funding for the line replacement project from the Kentucky Infrastructure Authority, United States Department of Agriculture Rural Development, or any other source.

WFCWD has requested funding from the Kentucky Infrastructure Authority. The project number is WX21069038 and has been approved, but not yet funded.



1421 West 9th Street
Owensboro, KY 42301
Phone 270-926-4646
fax: 270-926-6393
www.vusinc.com

Pricing Summary for

Ewing, KY

May 10th, 2022

Item	Category	Description	Qty	Unit Price	Extended Price	Notes
Replacement Water Meters & Endpoint						
1	Installation	Changeout 5/8"x3/4" through 1" Water Meters	1540	\$75.00	\$115,500.00	
2	Installation	Changeout 2" Water Meters	1	\$307.50	\$307.50	
Grand Total All Meter Costs					\$115,807.50	
Additional Items						
3		Site Visit Charge for Accounts Vanguard Can Not Complete	1	\$15.00		
4		Box Replacement, grass only	1	\$38.50		
5		Lid Replacement	1	\$2.50		
6		Lid Drilling (Cast Iron)	1	\$9.50		
7		Lid Drilling (Plastic)	1	\$2.50		
8		Replace existing valve	1	\$85.00		

Notes

- (1) Price assumes no plumber required
- (2) Price assumes like for like exchange
- (3) Price assumes warehouse or storage provide by others
- (4) Vanguard prices is labor only parts included are gaskets and bolts only
- (5) Price assumes no splicing of wire (ie. Quick connect)
- (6) Price assumes no bond required
- (7) Price assumes prevailing wage not required
- (8) Price assumes Vanguard will provide WOMS and will return field data via excel, csv, text format
- (9) Vanguard will provide door hangers



REMIT TO:

605 Sheridan Road, Suite 100
Noblesville Indiana 46060
Phone: (855) 373-9776

Invoice 22311F

Invoice Date : 07/24/2024
Invoice Due Date : 08/23/2024
Payment Terms : Net 30 Days
FPG Order No : SO26160
Customer Ref : verbal Allison

SOLD TO:

Western Fleming County Water District
P.O. Box 16
Ewing Kentucky 41039

SHIPPED TO:

Western Fleming County Water District
1500 Ewing Road
Ewing Kentucky 41039

Line	Description	Quantity	Unit Price	Amount
1	[BM-25-5/8x3/4-BCI-HR-E-5-TT-G] BM BCI25-5/8"x3/4"LT Recordall Disc Meter, HR-E, 5', TT, Gallon Badger Model 25 5/8" x 3/4" Recordall Nutating Disc Meter Lead-Free Bronze Body, Cast Iron Bottom Plate, Low Temperature Thermoplastic Disc and Chamber Assembly with HR-E Encoder, 5' Cable with Twist Tight Connector, Reading in Gallons, Encoder Output BM! # 100-7090 DS-BAB-PC1P-XXD3-Y2-M1CA-2B1X1-8BE-NN-XX-TF-XX-BOA	494	Each 145.35	\$ 71,802.90
2	XPO Logistics 148157262	1	Each 0.00	\$ 0.00
Total				\$ 71,802.90

**REMIT TO:**

605 Sheridan Road, Suite 100
 Noblesville Indiana 46060
 Phone: (855) 373-9776

Invoice 22123F

Invoice Date : 05/30/2024
Invoice Due Date : 06/29/2024
Payment Terms : Net 30 Days
FPG Order No : SO26159
Customer Ref : verbal Alison

SOLD TO:

Western Fleming County Water District
 P.O. Box 16
 Ewing Kentucky 41039

SHIPPED TO:

Western Fleming County Water District
 1500 Ewing Road
 Ewing Kentucky 41039

Line	Description	Quantity	Unit Price	Amount
1	[BM-EP-LTE-M-8-TT-TL] BM Orion Cellular Endpoint, LTE-M, 8", TT, Thru Lid Badger Meter Orion Cellular Encoder Endpoint LTE-M, 8" Wire with Twist Tight Connector, Thru-the-Lid Install Kit, Top Nut and Locknut with Gussets	500 Each	149.21	\$ 74,605.00

Partial Shipment Invoice. Order not Complete

Total \$ 74,605.00

Product	Quantity	SN/LN
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-1
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-2
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-3
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-4
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-5
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-6
[BM-EP-Cell-8-TT-TL] BM Orion Cellular Endpoint, C, LTE-M, 8", TT, Thru Lid	1.00 Each	40907-2-7



**Water/Wastewater
Transportation
Engineers
Environmental**

**Project:
Date: 10/23/2024
Engineer: JR
Page:**

**Estimated Construction Cost
for
Cowan Road / KY 32 (to Buchanan Road)
Western Fleming Water District**

Item	Quantity	Unit	Unit Cost	Total
6" SDR-21 Water Line	12,700	L.F.	\$30.00	\$381,000
6" DI Water Line	425	L.F.	\$60.00	\$25,500
10" Road Bore	80	L.F.	\$250	\$20,000
10" Railroad/Road Bore	60	L.F.	\$400	\$24,000
6" Gate Valve	5	EA.	\$2,200	\$11,000
Connection of Exist. System	4	EA.	\$4,000	\$16,000
Meter Reconnect (Same Side)	20	EA.	\$1,250	\$25,000
Meter Reconnect (Opp. Side)	14	EA.	\$1,350	\$18,900
Additional Service Tubing	200	L.F.	\$8	\$1,600
Blowoff Hydrant	3	EA.	\$5,000	\$15,000
Crushed Stone	350	L.F.	\$15	\$5,250
Free Bore Under Drives	75	L.F.	\$85	\$6,375
Bit. Replacement	100	L.F.	\$75	\$7,500
Total Estimated Construction Cost				\$557,125
				USE \$560,000

Note: Existing water line is a 4". This estimate upgrades it to a 6" water line.

**Estimated Construction Cost
for
KY 165 (Delaney to US 68)
Western Fleming Water District**

Item	Quantity	Unit	Unit Cost	Total
6" SDR-21 Water Line	13,000	L.F.	\$30.00	\$390,000
10" Road Bore	75	L.F.	\$250	\$18,750
6" Gate Valve	5	EA.	\$2,200	\$11,000
Connection of Exist. System	3	EA.	\$4,000	\$12,000
Meter Reconnect (Same Side)	19	EA.	\$1,250	\$23,750
Meter Reconnect (Opp. Side)	19	EA.	\$1,350	\$25,650
Additional Service Tubing	200	L.F.	\$8	\$1,600
Blowoff Hydrant	4	EA.	\$5,000	\$20,000
Crushed Stone	700	L.F.	\$15	\$10,500
Free Bore Under Drives	150	L.F.	\$85	\$12,750
Total Estimated Construction Cost				\$526,000



**Water/Wastewater
Transportation
Engineers
Environmental**

**Project:
Date:** 10/23/2024
Engineer: JR
Page:

**Estimated Construction Cost
for
Nepton Road Water Line Replacement
Western Fleming Water District**

Item	Quantity	Unit	Unit Cost	Total
4" SDR-21 Water Line	3,300	L.F.	\$20.00	\$66,000
2" SDR-21 Water Line	4,700	L.F.	\$18.00	\$84,600
8" Road Bore	70	L.F.	\$200	\$14,000
8" Railroad/Road Bore	80	L.F.	\$400	\$32,000
4" Gate Valve	4	EA.	\$1,800	\$7,200
2" Gate Valve	4	EA.	\$1,200	\$4,800
Connection of Exist. System	4	EA.	\$4,000	\$16,000
Meter Reconnect (Same Side)	15	EA.	\$1,250	\$18,750
Meter Reconnect (Opp. Side)	9	EA.	\$1,350	\$12,150
Additional Service Tubing	200	L.F.	\$8	\$1,600
Blowoff Hydrant	2	EA.	\$5,000	\$10,000
Blowoff Assembly	2	EA.	\$3,000	\$6,000
Crushed Stone	200	L.F.	\$15	\$3,000
Free Bore Under Drives	20	L.F.	\$85	\$1,700
Creek Crossings	40	L.F.	\$150	\$6,000
Total Estimated Construction Cost				\$283,800
				USE \$284,000

Note: Estimate includes 2,000' of replacement along Baptist Lane and 2,700' of 2" from Lake View Road.

**Estimated Construction Cost
for
Mt. Tabor Road (KY 165 to End of Road
Western Fleming Water District**

Item	Quantity	Unit	Unit Cost	Total
6" SDR-21 Water Line	20,300	L.F.	\$30.00	\$609,000
10" Road Bore	200	L.F.	\$250	\$50,000
6" Gate Valve	7	EA.	\$2,200	\$15,400
Connection of Exist. System	1	EA.	\$4,000	\$4,000
Meter Reconnect (Same Side)	37	EA.	\$1,250	\$46,250
Meter Reconnect (Opp. Side)	24	EA.	\$1,350	\$32,400
Additional Service Tubing	200	L.F.	\$8	\$1,600
Blowoff Hydrant	5	EA.	\$5,000	\$25,000
Crushed Stone	500	L.F.	\$15	\$7,500
Free Bore Under Drives	100	L.F.	\$85	\$8,500
Blacktop Replacement	200	L.F.	\$75	\$15,000
Total Estimated Construction Cost				\$814,650
				USE \$815,000

Note: Recommend making part of the road a 4" Water Line.



Water/Wastewater
Transportation
Engineers
Environmental

Project:
Date: 10/23/2024
Engineer: JR
Page:

**Estimated Project Cost
for
Phase II AC Water Line Replacement
Western Fleming Water District**

Construction Cost		\$2,185,000
BTADD Admin.		\$50,000
Legal & Admin.		\$20,000
Land & Rights		\$10,000
Engineering		\$273,000
	Preliminary Engineering	\$10,000
	Design/Bidding/CA	\$165,000
	Inspection	\$98,000
Interest During Construction (RD Project)		\$20,000
Environmental (If Required)		\$10,000
Contingencies		<u>\$212,000</u>
TOTAL ESTIMATED PROJECT COST		\$2,780,000