

Response to PSC Case No. 2024-00314 – 1<sup>st</sup> Request for Information

1. *Refer to Powell's Valley District's proposed qualified infrastructure improvement plan (QIIP), unnumbered page 3. Describe the RD Water System Improvements Project. Include in the response the description, the stage the district is in in the process, included elements of the project, and types of funding to be utilized.*

The RD project includes a variety of components for the PVWD distribution system as follows:

- Ballard Branch Pump Station Relocation
- New Bowen Pump Station
- Tank Sandblast & Paint
- Tank Replacement
- Water Main Extensions
- Equipment
- Upgrade Service Meters

We have completed uploading all of the application and its exhibits onto the RD Apply website except the Environmental Report. RD instructed us to turn in the items and wait for RD to identify areas to include in the Environmental Report. Everything is turned in and we are waiting on their response with the environmental information. We previously completed 4 applications including their Environmental Reports and uploaded all of the information to the RD Apply site for 4 complete applications. One was an emergency applicaion under their ECWAG program. RD advised us to put the emergency project in another application because their ECWAG program was not performing well. They later advised us to withdrawal the other 3 applications and combined them into a single application. We have done that and are awaiting noitce regarding the Environmental Report requirements. We do not anticipate any problems with the environmental clearances since we received no negative responses in the separate application's environmental studies.

Funding for the new application includes committed grants from the State of Kentucky and the requested RD Loan and Grant.

2. *Refer to Powell's Valley District's proposed QIIP, unnumbered page 4.*  
*a. State the proposed locations for the 30 one-inch bypass meters.*

See the attached list of Proposed Meter and Valve Locations.

*b. State the proposed locations for the three isolation valves.*

See the attached list of Proposed Meter and Valve Locations..

*c. Confirm that the District's current software is compatible for all meter types proposed to be installed by the district. If not confirmed, explain the response.*

The service meters upgrade in the RD project includes new software for automatic drive by reading and in the office for billings and identifying leaks on service lines and on main

lines. The existing software can be used for metered data and the meters will include standard heads such that employees can manually read the metered usage if necessary.

3. *Refer to Powell's Valley District's QIIP, unnumbered page 12. Provide the bid proposal for the listed \$550 Contract Labor, including the company or individual to perform the labor.*

See the attached quote for meter installation services.

4. *Refer to Powell's Valley District's QIIP, unnumbered pages 6-9 and Appendix 1.*

a. *Explain whether the unit price totals on pages 6-9 were calculated using the total from Appendix 1 with or without tax*

Cost estimates were intended to be made using unit prices and lump sums without tax as the District is State Tax exempt.

b. *Reconcile the difference between "install 1" bypass meters" that appears to be calculated using the non-tax total with the "install isolation valves" that appears to be calculated using the total with tax.*

The valves should have been calculated with no tax. The difference is \$96.42 per valve installation. See revised "A Qualified Infrastructure Improvements Plan - Projects and Schedule".

c. *Provide a new Appendix 1 with the correct cost estimates.*

There are no changes to the Appendix. New "A Qualified Infrastructure Improvements Plan - Projects and Schedule" is provided with revised calculations.

5. *Confirm that, if approved, the new truck would solely be used for water loss purposes and provide who would be driving the vehicle in year 1 of the plan. If not confirmed, explain the response.*

The truck will be used solely for water loss detection and repair work. It will be purchased at the end of year 1 and will cost \$41,398 as shown in the dealer quote.

6. *Refer to Powell's Valley District's QIIP, unnumbered pages 4 and 19. Provide an explanation as to how the remaining portion, 25 percent, of the new employee's salary would be paid.*

We would have to pay the balance from our operating and maintenance account.

Z = Zone meter      B.P. = Bypass meter      V = Valve

- Z Black Cr. Valve #1
- 1" B.P. Stokely Rd
- 1" B.P. Black Cr. #2 Pump Station
- 1" B.P. Skinner Br.
- 1" B.P. Adams Ridge
- 1" B.P. Valve past Virden on Hwy 15
- 1" B.P. Howland Ave.
- 1" B.P. Watson Rd
- Z Ships Branch
  
- Z Virden pump station
- Z Past Yellowpine rd
- Z Upper Virden tank to T.V. Gas
- 1" B.P. 9487 Winchester Rd.
- 1" B.P. Lake Neoma Rd
- 1" B.P. Lake Carmie Rd.
- 1" B.P. 985 Jones Rd
- V & 1" B.P. ~~End~~ Jones Rd & Snow Cr.
- V & 1" B.P. Lake Neoma & Virden
- 1" B.P. West Lone Oak & Snow Cr.
- 1" B.P. Virden, Miller Rd Split

1" B.P. Hardwicks Cr. & 2001  
1" B.P. Hardwicks Cr. & Little Hardwicks Cr. split  
1" B.P. Franes br. going down Hardwicks Cr.  
1" B.P. Franes br. going up Hardwicks Cr.  
2 Hardwicks Cr. & Lone Oak  
1" B.P. marcum Rd.  
1" B.P. Lone Oak Rd.  
2 Hardwicks Cr. &

✓ 2 1" B.P. Furnace tank toward pump station  
2 marble yard to Fipton bridge  
1" B.P. Pilot  
1" B.P. Southfork & Halls Hill  
1" B.P. Cow Creek  
2 manning Rd  
2 middle Fork  
1" B.P. Star Gap pump station  
1" B.P. Noda  
1" B.P. Red River Valley  
1" B.P. Robbie bridge  
2 Noda tank toward Natural bridge  
1" B.P. North Fork  
1" B.P. Cone Creek split

**Ledford Backhoe Service**

365 Powell rd

Clay city Ky 40312

6065695306

randyledford92@gmail.com

DATE

01/31/2023

DUE

On Receipt

BALANCE DUE

USD \$0.00

BILL TO

**Powell's valley water district**

DESCRIPTION	RATE	QTY	AMOUNT
As of March 1st labor for 3/4 meter tap installation will go from \$350.00 to \$450.00 and 1" taps will go from \$450.00 to \$550.00	\$0.00	1	\$0.00

**TOTAL** **\$0.00****BALANCE DUE** **USD \$0.00**

## A Qualified Infrastructure Improvements Plan Projects and Schedule

Year	Item	Purpose	Quantity	Unit Price	Cost
Annual Water Loss Surcharge Revenues					\$68,580
Year 1	Install 1" bypass meters	Install 1" bypass meters at strategic locations to isolate the system into zones. Materials include meters, setters, meter boxes, gate valves, a mega lug pack and PVC knock ons.	10	\$1,887	\$18,870
	install isolation valves	In order to install the meters and isolate sections of the mains, gate valves will need to be installed. The isolation gate valves will also help limit the service disruptions when the District is repairing the located leaks by shutting down smaller sections of the mains.	3	\$2,312	\$6,936
	purchase new truck	In order to provide for additional help performing leak detection, the new employee will need a truck for transportation and storage of the leak detection equipment. PVWD proposes purchase of a new Truck.	1	\$41,398	\$41,398
	Total Expenditures Year 1				\$67,204
	Balance				\$1,376

## A Qualified Infrastructure Improvements Plan Projects and Schedule

Year	Item	Purpose	Quantity	Unit Price	Cost
Annual Water Loss Surcharge Revenues					\$68,580
Carry Over Balance					\$1,376
Total Funds with Carryover					\$69,956
Year 2	hire employee (75% water loss)	The work load on existing employees does not allow for the appropriate more intensive time allocated for leak detection and repairs. PVWD proposes to hire a new employee to provide the service. PVWD estimates it will take 75% of the new employee's time dedicated to leak detection. See Appendix 1 for calculation of cost.		Lump Sum	\$40,716
	Install 1" bypass meters	See Year 1 meters purpose	10	\$1,887	\$18,870
	purchase digital leak detector	To locate and eliminate leaks once they are isolated by metering zones, a leak detection sensing system is required. PVWD proposes to utilize the LD-18 Digital Water Leak Detector and SubSurface LC-5000 Digital Dual Leak Correlator	1	\$6,900	\$6,900
	Total Expenditures Year 2				\$66,486
	Balance				\$3,470

## A Qualified Infrastructure Improvements Plan Projects and Schedule

Year	Item	Purpose	Quantity	Unit Price	Cost
Annual Water Loss Surcharge Revenues					\$68,580
Carry Over Balance					\$3,470
Total Funds with Carryover					\$72,050
Year 3	New employee (75% water loss)	The work load on existing employees does not allow for the appropriate more intensive time allocated for leak detection and repairs. PVWD proposes to hire a new employee to provide the service. PVWD estimates it will take 75% of the new employee's time dedicated to leak detection.			\$40,716
	Install 1" bypass meters	See Year 1 meters purpose	10	\$1,887	\$18,870
	install isolation valves	See Year 1 valves purpose	4	\$2,508	\$10,032
	Total Expenditures Year3				\$69,618
	Balance				\$2,432



## A Qualified Infrastructure Improvements Plan Projects and Schedule

Year	Item	Purpose	Quantity	Unit Price	Cost
Annual Water Loss Surcharge Revenues					\$68,580
Carry Over Balance					\$2,432
Total Funds with Carryover					\$71,012
Year 4	New employee (75% water loss)	See year 3 purpose			\$40,716
	Subsurface Dual Leak Correlator	PVWD is proposing to purchase and use a SubSurface LC-5000 Digital Dual Leak Correlator to improve detection, provide for delayed short-term or overnight deployment, enhanced correlations with high-sensitivity sensors with resolution of 8" in high-precision mode.			\$25,500
	Total Expenditures Year 4 Balance				\$66,216 \$4,796

See Appendix 1 for details and costs