

Item 6 – Purchase of Continuous Water Level Measurement Devices

With the advent of the UW Brazos Valley Farm, LLC Simsboro water production permits and the commitment to a District Well Assistance Program, a more robust and timely water level measuring protocol needs to be implemented. This should include not only monthly and quarterly measurements of many nearby Simsboro wells identified since October 2022 but continuous monitoring devices placed in strategic locations in and around the proposed well field providing real-time data.

The District currently has one Eno Scientific Well Watch 670 installed on a Simsboro well in Wheelock which could not be measured with any other techniques. The device has been in place since December 2020 and has performed exceptional well. We currently download the collected data quarterly uploading data to a laptop computer. The sonic measuring device is powered by a solar panel installed onsite.

Four strategic locations have been identified by the General Manager and District hydrologists as candidate sites for new Well Watch 670 devices:

Mears – Intersection of FM 1644/FM 485 on Cula de Brazos property (unpumped)

City of Hearne Well #4 (POW) – FM 485 near the Hearne Airport

Andy Bland – 0.75 miles SE of intersection of FM 1644/New Magnolia Church Road

Josh Wenger – 0.18 miles SE of intersection of Auction Barn Road/SH-6 (unpumped)

The current cost for each Well Watch 670 is \$869.00. The cost of each solar kit is \$529.00. The current Well Watch 670s do not have capability to send data to a cloud platform. Eno Scientific has been developing an improved model with cloud capabilities. The upgraded version will cost approximately \$250 more per device than the current version and should be available sometime during 2023.

The General Manager requests the Board authorize the purchase of:

- Four (4) Well Watch 670 water level measuring devices
- Four (4) Solar kits

It is important we install the devices ahead of the 2023 Simsboro pumping season. This will require the purchase of devices without cloud capability. I have spoken at length with Eno Scientific about purchasing the devices now and upgrading to the new devices when they become available. The agreement is the new devices will be shipped and will replace the older devices for approximately \$250/device. The older devices will be shipped back to Eno Scientific. Once the new devices are installed, cost for having cloud access to the water level data will be \$15/month/device (\$180/device annually) The purchase of the equipment and cloud service would come from the District Well Assistance Fund.

The General Manager requests the authorization of \$7,500 to be made available for purchase of the equipment, shipping, and cloud services for the installation of four (4) Eno Scientific water level measuring devices.

Eno Scientific LLC
 PO Box 1586
 Hillsborough, NC 27278
 www.enoscientific.com



Date	Invoice #
2/3/2023	

Bill To
Brazos Valley GCD Alan Day 112 W. 3rd St Hearne, TX 77859

Ship To
Brazos Valley GCD Alan Day 112 W. 3rd St Hearne, TX 77859

P.O. Number	Terms	Rep	Ship	Via	Order Number

Quantity	Item Code	Description	U/M	Price Each	Amount
4	0670	Well Watch 670	ea	869.00	3,476.00
4	5321	10W Solar Power Kit	ea	529.00	2,116.00
1	Shipping	Shipping Fees		195.20	195.20
		(Smart Hubs When Available) Estimated cost to upgrade \$250.			

				Total	\$5,787.20
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