



LOWER PLATTE SOUTH natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581
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Memorandum

Date: August 10, 2023
To: Board of Directors
From: Mike Murren Projects Coordinator *mm*
Subject: Water Resources Subcommittee Meeting Minutes-August 2023

The Water Resource Subcommittee met on Tuesday August 8, 2023, at NRD office, at 6:30 pm. Subcommittee members present included Larry Ruth, Melissa Baker, Luke Peterson, Gary Hellerich, Susan Seacrest, Don Jacobson, Mark Spangler, and Bob Andersen. Others present were Paul Zillig, Mike Sousek, Dave Potter, Steve Herdzina, and Tyler Benal, Dick Ehrman and Mike Murren with the LPSNRD. Also present were Leo and Chris Benes. There was one agenda item the Subcommittee acted on and three reports were given. A quorum was present for the meeting.

Consideration of proposals for the Antelope Park Well Piping project

(Action)(Attachment) Murren updated the subcommittee on an board action that was taken at June 2012 Board Meeting, which gave approval to accept the proposal from Lincoln Water System to purchase groundwater wells, the underground reservoir, and monitoring wells in the Antelope Park well field. This included two high-capacity wells that are rated to pump 800 gallons per minute and approximately 200 feet deep, 4-million-gallon underground storage reservoir, and 12 monitoring wells. These wells can be pumped to Antelope Creek to supplement flows through Antelope Valley and Union Plaza to improve water quality and address odor and aesthetic concerns. The production wells can be pumped directly into a tributary to Antelope Creek to provide future offsets under the NRDs Integrated Management Plan or to offset instream flows for endangered species in the Lower Platte River. The underground reservoir can hold 12-acre feet of water.

As part of our operation and maintenance of the project, staff needs to “exercise” the wells 1-2 times per year at a minimum. Some discussion took place about how long we pump the wells and what time of the year this exercise is completed. Currently we must set up temporary hoses and pipes to be able to pump water to a storm sewer that drains to Antelope Creek. Staff would like to make some modifications that will make the operation of the wells more efficient and user-friendly. Currently the underground reservoir is not functional. The supply line leading to the reservoir is severed and needs to be replaced. According to our Groundwater rules and Regulations we need to install a water meter. The meter will be installed in the new supply line to the reservoir. Near well 90-2 there is a water line that needs to be cut and capped to stop flow to an abandoned line under a city street. Staff estimated the project to cost around \$32,000 so we used policy G-5.2 “informal

competitive bids “ and reached out to three contractors for proposals. Staff received three proposals from contractors with one proposal that was incomplete. The lowest proposal was from General Excavating for \$39,800. The second proposal was from K2 construction and was \$50,600. Both proposals showed a fall completion date which is acceptable to staff. . It was moved by Andersen, seconded by Baker, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the informal competitive bid of \$39,800 from General Excavating to complete the Antelope Park Well Piping project, which amount exceeds the estimated cost threshold for informal competitive bids under Operating Policy G-5.2.

Reports

Benes/Olson Irrigation Runoff Inspection(Attachment)

Herdzina was present to update the committee on a phone conversation he had with Don Olson about water on his property. A memorandum is attached to explain some of the history and the steps that were taken as well as staff conclusion of findings. Director Hellerich mentioned the idea of charging fees to manage these types of complaints. Discussion took place and it was suggested we have legal counsel attend WRS to inform us of the legality of placing fees on complaints.

Hydrogeologic Framework Study by LRE Water

Ehrman provided an update on the Hydrogeologic Framework Study. LRE is nearing completion of the data analysis and creating the three-dimensional model. The study will be finished this fall and LRE will present the study results to the Water Resource Subcommittee.

Piening Dam Update

Murren reported that Schemer/HDR continues to work on the Design/Permitting phase of the project. Two meetings with COE regulatory staff have occurred over the last month to review the purpose and need language being proposed by HDR. The wetland assessment shows a need to mitigate wetlands either onsite or ask the board for wetland credits from the Blue Heron Marsh Wetland Bank. The goal is to submit a 404 permit in August and receive a decision document later this year.

With no further business the meeting was adjourned at 7:33pm.

Enc.

Cc: Steve Seglin

Corey Wasserburger

Dave Landis

Antelope Park Well Piping Project



Antelope Park Well Project

Well 90-2 North Well

Locate the 12" line east of the 8" "T" and place cap and thrust block.

Total cost of well 90-2 Labor and Materials \$5,050.00

Vault pipe connection

Locate 8" "T" and connect line into the storage vault. Install meter pit with a propellor type meter with totaling capability in the line going to storage vault.

Total cost of materials and Labor \$34,750.00

Total Cost to complete Project \$39,800.00

Estimated completion date 12/15/23



Ken Imig
Contractor
General Excavating

Lower Platte South NRD

Email bid to mmurren@lpsnrd.org

Bids are due by August 2, 2023 at 1:00pm

Antelope Park Well Project

Well 90-2 North Well

Locate the 12" line east of the 8" "T" and place cap and thrust block.

Total cost of well 90-2 Labor and Materials \$ 12,180.00

Vault pipe connection

Locate 8" "T" and connect line into the storage vault. Install meter pit with a propellor type meter with totaling capability in the line going to storage vault.

Total cost of materials and Labor \$ 38,500.00

Total Cost to complete Project \$ 50,600.00

Estimated completion date Fall 2023

KZ Construction

Contractor

Lower Platte South NRD

Email bid to mmurren@lpsnrd.org

Bids are due by August 2, 2023 at 1:00pm

- Meter is 8" Prop which is a direct read model. No Scada included
- Ppe is assumed to be either Cast or PVC.

Mike Murren

From: Eric Bookstrom <eric.bookstrom@gmail.com>
Sent: Tuesday, June 13, 2023 2:21 PM
To: Mike Murren; Derek Bookstrom
Subject: Antelope Creek Water Main Project

Caution: This email originated from OUTSIDE the organization. Do not open suspicious links or attachments. Contact IT for assistance.

Bid
 Antelope Creek Well Project

June 13, 2023

Estimate

Item	Description	Quant./	Unit
1.	Mobilization	1	ls
2.	Cut and Plug Line Going East	1	ea
3.	8-inch Plug mj	1	ea
4.	Insert 8-inch Tee mj w/ block	1	ea
5.	Pipe to Vault 8-inch Water Main	20	lf
6.	8-inch Retainer Glands mj	3	ea
7.	8-inch DP Sleeve mj	2	ea
8.	8-inch DP Retainer Glands mj	4	ea

Start fall 2023. Cost \$20,000.00

Eric Bookstrom, Vice President

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Memorandum

Date: August 3, 2023
To: File
From: Steve Herdzina, Water Resources Compliance Specialist
Subject: Olson/Benes Irrigation Runoff Inspection

The District received a phone call on Thursday July 27, 2023 from Don Olson regarding water on his property located in Saunders County, Sec. 34, T13N, R5E that he suspected could be groundwater from the Benes Service Co. pivot uphill of his property. The NRD filed an irrigation runoff complaint (#002) against Benes Service Co. in 2009 due to irrigation runoff. On more than one occasion after the initial complaint, Benes Service Co. attempted but failed to control and prevent irrigation runoff from leaving their property. A cease-and-desist order was established in 2015 to prevent future runoff events. There have been several investigations as a result of reports by Olson of alleged irrigation runoff since 2015 but none of these investigations have confirmed that water on the Olson property is a result of groundwater irrigation runoff. I proceeded immediately to the field to investigate the situation.

I first checked the water meter on the Benes Service Co. pivot and calculated that they have currently used 3.21 inches of water on their corn field in 2023. I proceeded down to the sediment basin where I noted some standing water on the Benes property uphill of the Olson property. I visited the outlet pipes and found that all of the outlet pipe gate control valves were properly closed. There was a small amount of water dripping out of two of the pipes that has been present during previous investigations. A pool of water was observed within the plunge pool area of the outlet pipes. The standing water was limited to the plunge pool and did not extend down the waterway.

Upon returning to the office, I checked recent rainfall reports and noted that the area had received between 1.5-2 inches of water in the previous 2 weeks. I spoke with Leo Benes of Benes Service Co. who provided their pumping event information and indicated the gates have been closed since late May.

I acknowledged the presence of water impounded in the waterway on the Olson property. Any water that accumulates within the waterway is unable to drain properly due to the aggradation of silt and prior erosion within the waterway. After discussions with Benes Service Co., I determined that their property is still being operated in a way to prevent irrigation runoff. The water leaving the tile outlets is consistent with previous investigations that determined the amount to be de minimis. Additionally, the source of the water dripping from the outlets cannot be attributed exclusively to groundwater, but could be the result of groundwater, precipitation, seepage, or a combination of.

Staff's conclusion is that there is no evidence that the water on the Olson property is the result of groundwater irrigation runoff and Benes Service Co. is complying with the cease-and-desist order.

SH