

**A RESOLUTION APPROVING AND ACCEPTING BID OF  
BROTCKE WELL & PUMP, INC. FOR WELL MAINTENANCE AND EQUIPMENT**

*BE IT ORDAINED BY THE SOUTH SANGAMON WATER COMMISSION, AS FOLLOWS:*

**SECTION 1:** That South Sangamon Water Commission hereby approves and accepts the bid from Brotcke Well & Pump, Inc. associated with well maintenance and equipment, a copy of which is attached hereto as Exhibit #1.

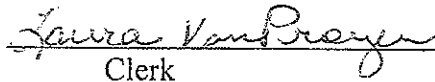
**SECTION 2:** That Chairman and appropriate officers are authorized and directed to execute the Agreement on behalf of the Commission, and the proper officers of the Commission are directed to carry out the proposal by its terms.

**SECTION 3:** This Resolution is effective immediately.

PASSED this 16th day of October, 2023.

  
\_\_\_\_\_  
CHAIRMAN

ATTEST:

  
\_\_\_\_\_  
Clerk

A YES: Roth, Johnson

NAYS: None

PASSED: 10/16/2023

APPROVED: 10/16/2023

ABSENT: Morris



October 9, 2023

Stephen Bivin  
South Sangamon Water Commission  
9199 Buckhart Road  
Rochester, IL 62563

Re: Proposal Number 2023-01

Dear Stephen,

Brotcke Well & Pump is pleased to submit a price to perform the chemical treatments on the wells for South Sangamon Water Commission. We will complete the work in accordance with the specifications.

Procedure and pricing are attached.

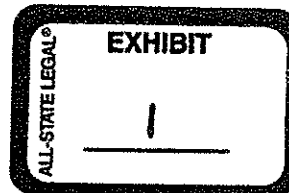
If you have any questions please feel free to contact me.

Sincerely,  
BROTCKE WELL & PUMP INC.

A handwritten signature in black ink, appearing to read 'Dana E. Heck', written over a horizontal line.

Dana E. Heck, R.G.

C:\Users\Dana\My Drive\BWP Files\Job Files\Illinois\South Sangamon\SouthSangamonWellTreatments - 2023.docx



## SCOPE OF SERVICES

### Request for Proposal Cleaning of South Sangamon Water Commission Wells

The South Sangamon Water Commission (SSWC) is requesting the services of a well service company to clean up to five (5) alluvial wells for the 2023 calendar year and up to five (5) additional alluvial wells for the 2024 calendar year. The scope of work includes mobilization, demobilization, all necessary equipment and chemicals, site restoration and cleanup, labor, and coordination with the SSWC operations personnel.

Please provide a proposal to clean up to five (5) alluvial wells SSWC per year. The Wells for 2023 cleaning and the wells for the 2024 cleaning shall be identified by the General Manager based on the worst five performing wells for that cleaning cycle, at the General Manager's discretion. The Well Field is located north of the SSWC Water Treatment Plant on Buckhart Road east of Rochester, IL.

The proposal shall be a lump sum per well proposal based on the following cleaning procedure.

#### South Sangamon Well Treatment Procedure:

- Perform initial pump test to determine Specific Capacity of the well.
- Pull the pump setting and install a pump and packer assembly. This step has proven critical in the South Sangamon well field.
- Acid Treatment.
  - Acid injection utilizing high velocity injection method. Inject 330 gallons of acid and 15 gallons of acid enhancer out into the well formation. Monitor the PH of the injection water to ensure a constant level of high acidity. If the PH begins to rise, additional acid and enhancer will be injected. During this entire process, the acid mixture will be surged in and out of the well to break up and remove iron forming bacteria and iron. The injection tank must hold 3000 gallons and can pump up to 3000 gallons per minute with an injection pressure of 40 psi. Once the PH of the acid stabilizes indicating that the acid is no longer performing a function the acid treatment will be concluded. Neutralize the acid and pump off.
- Post Acid Treatment Pump Test to determine effectiveness of the acid treatment
- Sodium Hypochlorite Treatment
  - Sodium Hypochlorite treatment utilizing high velocity injection method. During this process inject 55 gallons of sodium hypochlorite and a chlorine enhancer out into the formation. Monitor the ppm count of sodium hypochlorite in the

injection water to ensure a constant level of 200 ppm. If the ppm begins to fall, additional sodium hypochlorite and enhancer will be injected. During this entire process, the sodium hypochlorite mixture will be surged in and out of the well to oxidize and remove iron while also disinfecting the well. Once the ppm of the sodium hypochlorite stabilizes indicating that the sodium hypochlorite is no longer performing a function the sodium hypochlorite treatment will be concluded. After the treatments are performed, neutralize and pump off.

- Post Sodium Hypochlorite Treatment pump test to determine effectiveness of Sodium Hypochlorite treatment
- Remove packer and install permanent pump setting.
- Provide post cleaning video inspection of each well.
- Perform all necessary testing, sampling, and lab analysis to obtain permit to return well into active service.
- Report performance to South Sangamon include pre-cleaning specific capacity and post-cleaning specific capacity.
- The Contractor may propose an alternative cleaning method to the above for the Water Commission's consideration. The Contractor shall document the differences in their proposed cleaning program from the above and why the suggested alternative method is advantageous to the outcome of maximum cleaning and capacity restoration.

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Lump sum price to clean one well in 2023 \$18,842.00

X 5 Wells for 2023 =

Total price to clean five wells in 2023 \$94,210.00

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Lump sum price to clean one well in 2024 \$19,488.00

X 5 Wells for 2024 =

Total price to clean five wells in 2024 \$97,440.00

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The South Sangamon Water Commission is also requesting an alternate quote to replace the submersible transducer per well. The intent would be to install the replacement transducer at the conclusion of the cleaning for each well if the current transducer is non-functioning. Level transmitter shall be Series SBLT manufactured by the Mercoïd division of Dwyer Instruments.

Price to include transducer, installation, PVC casing and electrical wiring.

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Lump sum price to install one well water level transducer \$2,512.00

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The South Sangamon Water Commission is also requesting an alternate quote to replace the flow meter per well. The intent would be to install the replacement flow meter at the conclusion of the cleaning for each well if the current flow meter is non-functioning. Flow meter shall be Micrometer Mag Meter.

Price to include flow meter, installation, adapters and electrical wiring.

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Lump sum price to install one flow meter \$12,056.00

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Submittal Contact: Stephen Bivin  
General Manager  
South Sangamon Water Commission  
9199 Buckhart Road  
Rochester IL 62563

Direct all questions to Stephen Bivin at the SSWC Water Plant.

**RESOLUTION CERTIFICATE**

STATE OF ILLINOIS                    )  
  ) SS  
COUNTY OF SANGAMON            )

I, the undersigned, do hereby certify that I am the duly qualified and acting Clerk of the South Sangamon Water Commission.

I do further certify that the resolution attached hereto is a full, true, and exact copy of Resolution No. 23-07 adopted by the Commission on the 16th day of October, 2023, said Resolution being entitled:

**A RESOLUTION APPROVING AND ACCEPTING BID OF  
BROTCKE WELL & PUMP, INC. FOR WELL MAINTENANCE AND EQUIPMENT**

I do further certify that prior to the making of this certificate, the said Resolution was spread at length upon the permanent records of said Commission, where it now appears and remains.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of said Commission this 16<sup>th</sup> day of October, 2023.

  
Clerk

