

**WSF # 5321**  
**Water Quality Assessment**  
**2023 Annual Report**

- **Project progress.**
  - A total of 16 surface water and 18 groundwater samples, and 23 isotope samples were obtained and analyzed for arsenic concentrations from the following locations: Surface water - Platte River at Leshara (USGS 06796500) and Platte River at Ashland (USGS 06801000); groundwater – numerous wells located in and around the City of Lincoln wellfield.
  - One WSF claim was submitted and paid for a total of \$18,000.
- **Project related activities planned for the coming year.**
  - Ongoing USGS data collection for surface water samples looking at arsenic concentrations at paired sites. Surface water samples for arsenic concentrations in the Platte River will continue to be collected and conclude in July 2023. This data collection effort will occur at the two Platte River sites mentioned previously and will also be paired with data results from the ongoing USGS National Water Quality Assessment sampling effort that is occurring at three other locations in the lower Platte River.
  - USGS data assessment of collected arsenic and isotope data throughout the lower Platte River. Data assessment and modeling will begin on the arsenic concentration data collected March 2022 through July 2023 and on the isotope data collected in the summer of 2022. The data from different sites will be compared to each other and to older arsenic samples available.
  - USGS report production. Data analysis and report production will be ongoing in 2023 with an estimated report publication date in the summer of 2024.

- **Forecasted or projected (estimated) cash flow for remainder of the project.**

WSF 5321 - Understanding Arsenic Trends in the Lower Platte River and the Surface Water Contribution to the City of Lincoln Water System Groundwater Wells Estimated Cash Flow  (Cash flows are approximate)	
2023	2024
\$140,000	\$147,000
Notes:  1. Project cashflow includes total expenses from both project sponsors (USGS and City of Lincoln matching funds) and WSF	

- **Reassessment of the likelihood that benefits projected in the application will be realized and, for the final report, a description of benefits realized or reasonably expected to be realized as compared to those stated in their application.**

There have been no changes made or forecasted as to reducing benefits anticipated and documented in the original application during this report period.

**Steve Owen**

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