

Kansas Water Office Update

House Water Committee

January 13, 2026



Tuttle Creek Lake Water Injection Dredging Demonstration

- **Authorization:** Flood Control Act of 1938
- **Funding:** Total Project Cost \$9.1M
 - Federal: Consolidated Appropriations Act FY22 (\$1.3M); FY23 (\$2.8M) Operations and Maintenance – Water Supply (WS); and \$3M reprogrammed from Tuttle Creek operations project
 - State: State of Kansas - Kansas Water Office contributed an additional \$2M directly to USACE for the project.
- **Project Managers:** Laura Totten (USACE); Josh Olson (KWO)
- **Technical Lead:** Michael Mansfield (USACE)

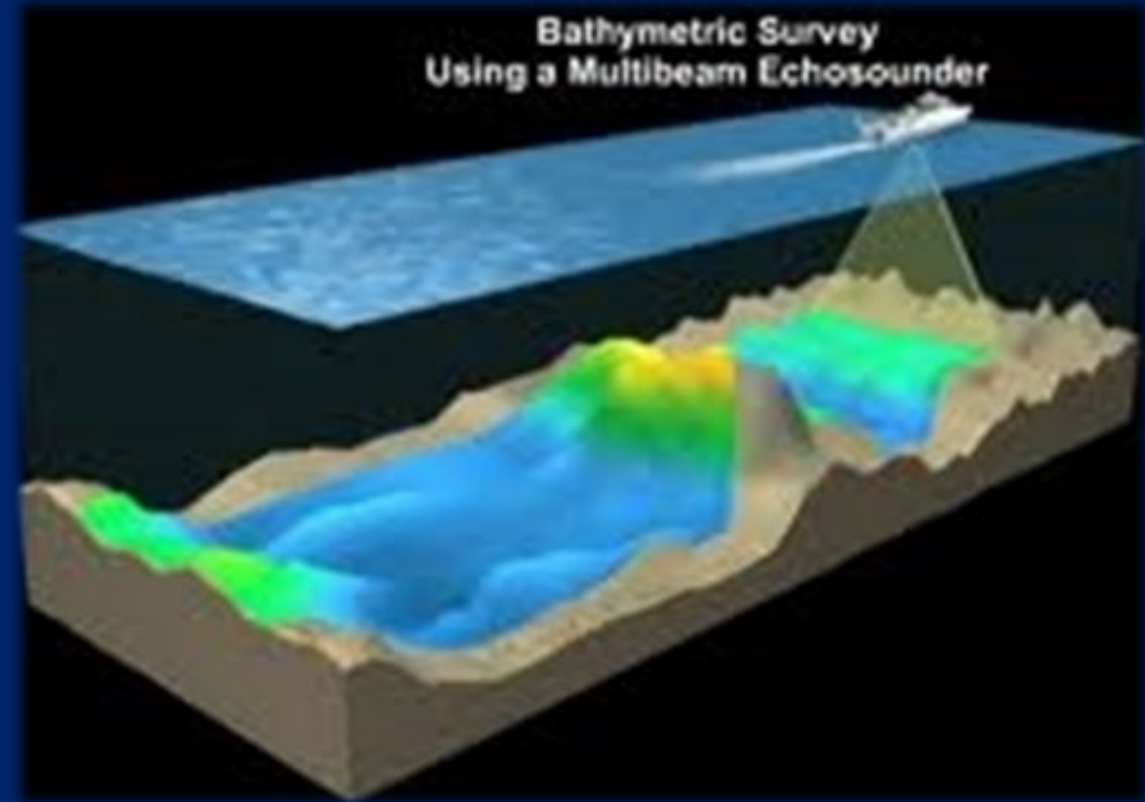
Demonstration Objectives

Test of the technology– not a typical dredging project

- Goal: Answer questions
- Not: Dredge to a certain elevation or volume

Tuttle Creek Lake Primary Questions

- How much sediment can WID move?
- WID production rate (CY/hr)
- How much will it cost per cubic yard?
- What are the downstream effects? (WQ/ecological/geomorphology)
- Fully successful if we answer these questions.



Extensive multibeam bathymetric data and downstream sediment and water quality monitoring

WID Demonstration Schedule

- **WID Demonstration Fall 2025 – September 17 – September 27**
 - Dredging operation for 10 total days and demobilization.
(200 hours of active dredging)
- **WID Demonstration Spring 2026 – March – April***
 - Dredging operation for 10 total days and demobilization.
(200 hours of active dredging – assumes 20 hours of dredging per day)
- **WID Demonstration Summer 2026 – July – August***
 - Dredging operation for 10 total days and demobilization.
(200 hours of active dredging – assumes 20 hours of dredging per day)

*Subject to change



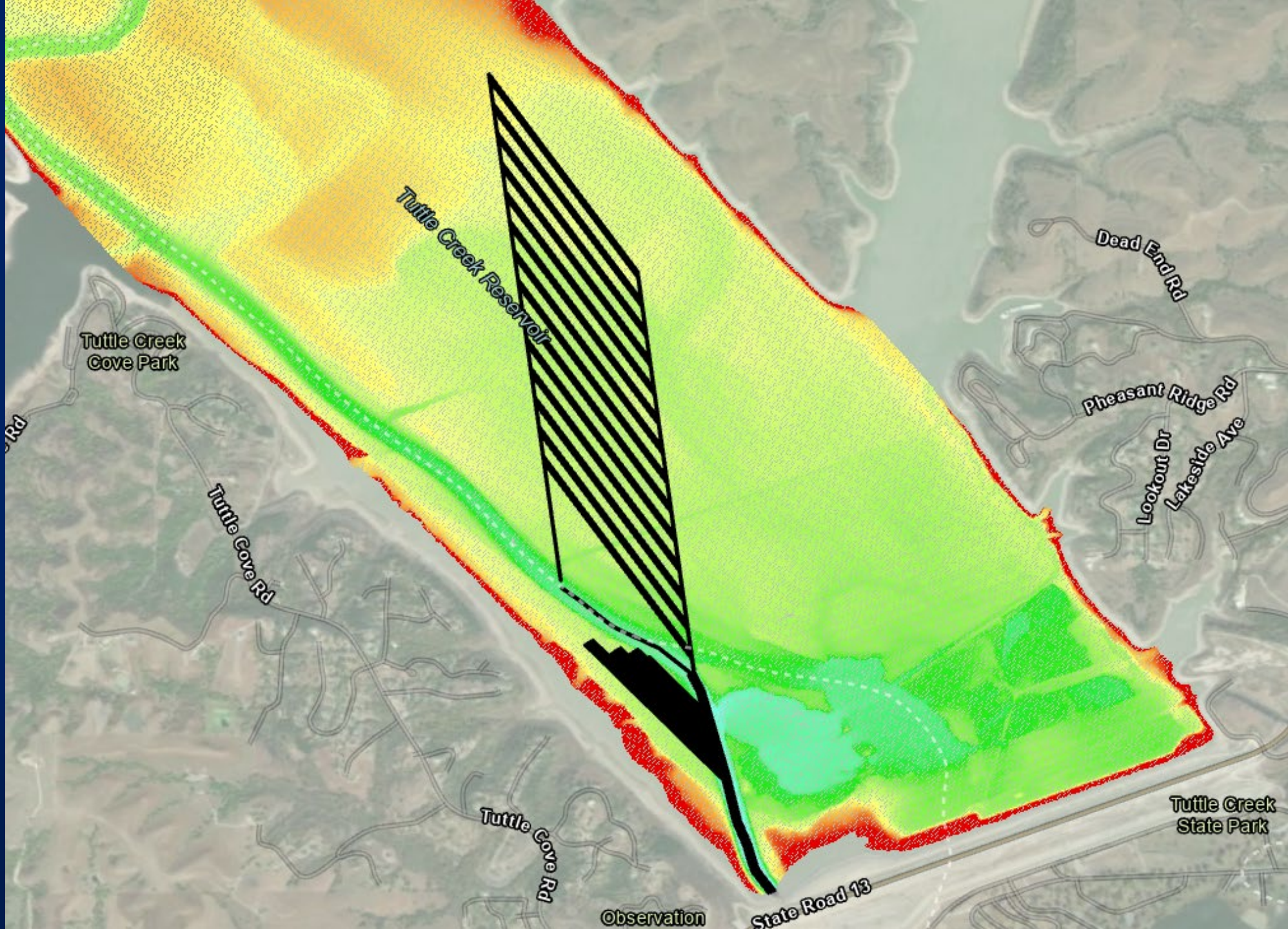
Dredging began around 11:45 AM on
Wednesday, September 17th.



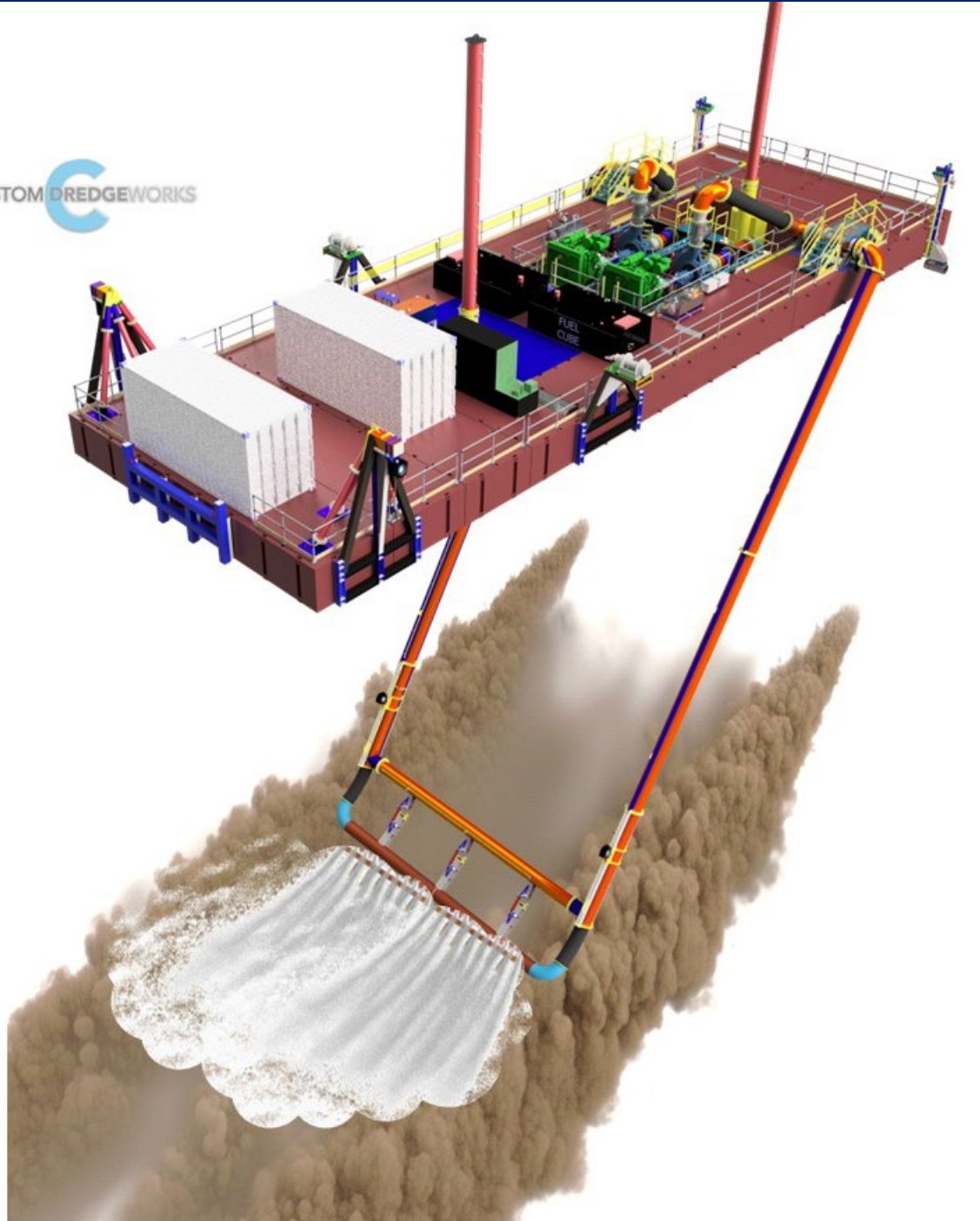
Dredging operations continued during the night.

6





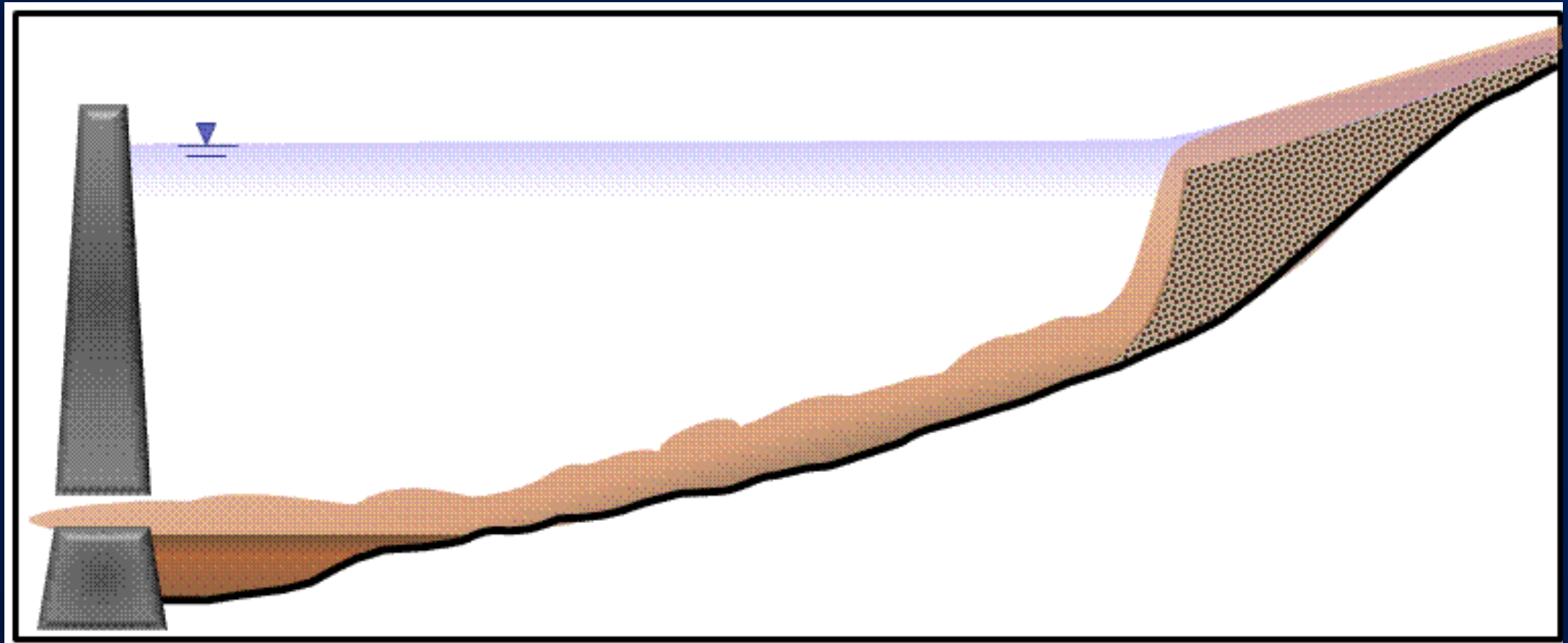
CUSTOM DREDGEWORKS



US Army Corps of Engineers.



Density Current

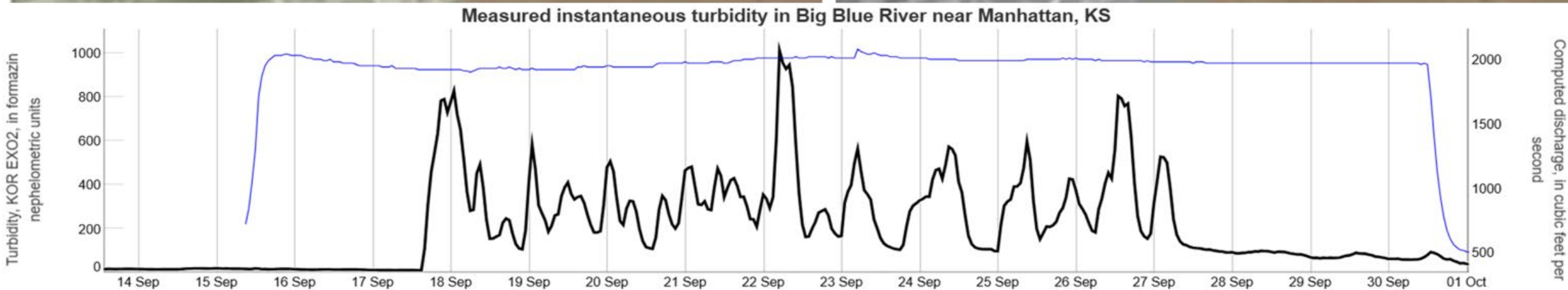


No extra sediment

A few minutes later

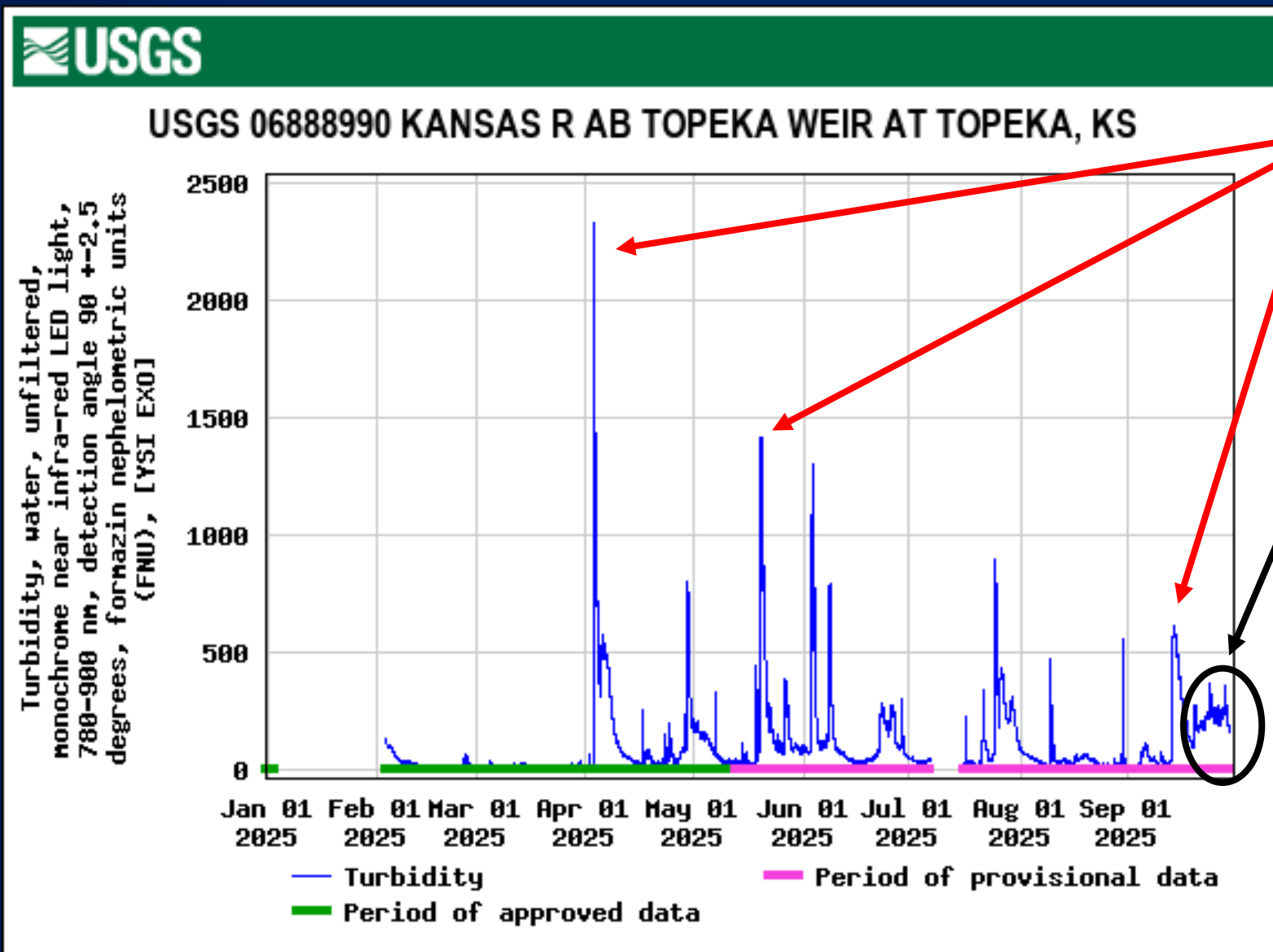
Note the color change

Slide Credit: John Shelley



Discharge (blue line) and turbidity (black line) in the channel downstream of Tuttle Creek Lake September 2025, showing a very significant release of sediment during the Water Injection Dredging Demonstration Project.

Turbidity at Topeka – 1/1/2025 to Arrival of WID Sediment



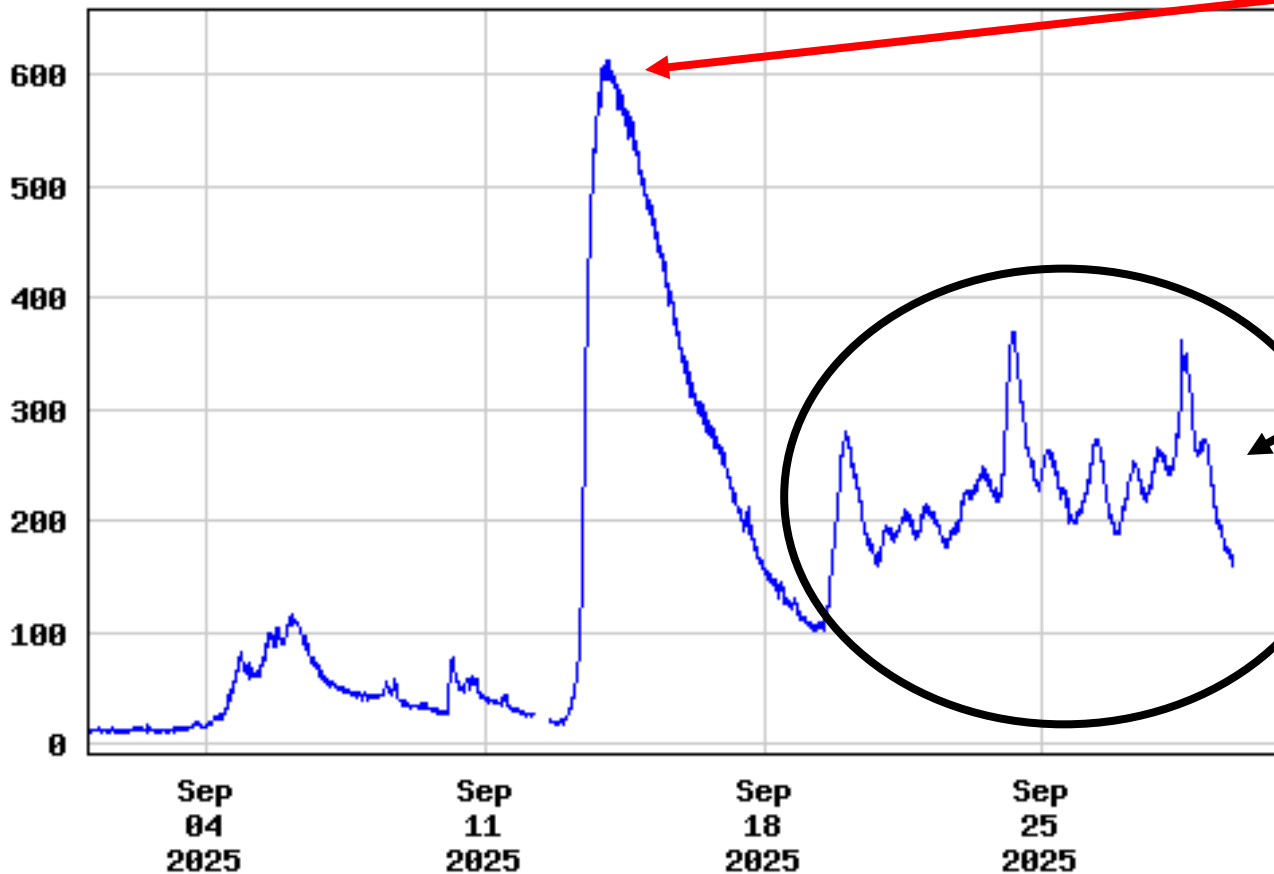
- Note prior turbidity spikes for year from natural runoff events
- Water Injection Dredging (WID) sediment arrival at Topeka

Turbidity at Topeka – 9/1/2025 to Arrival of WID Sediment



USGS 06888990 KANSAS R AB TOPEKA WEIR AT TOPEKA, KS

Turbidity, water, unfiltered, monochrome near infra-red LED light, 780-900 nm, detection angle 90 +/-2.5 degrees, formazin nephelometric units (FNU), [YSI EX0]



----- Provisional Data Subject to Revision -----

- Turbidity increase from Smoky Hill River high flow event.
- Water Injection Dredging (WID) sediment arrival at Topeka



Next Steps

- Fall/Winter 2025/2026: Data Analysis, Stakeholder Outreach
- January 26, 11:00 AM – WID Update Webinar with Fall 2025 Results
- Spring 2026: WID Demo #2
- Summer 2026: WID Demo #3
- Late 2026-2027: Final Report

HB 2302 Grant Program

**Technical
Assistance
Fund Grants**

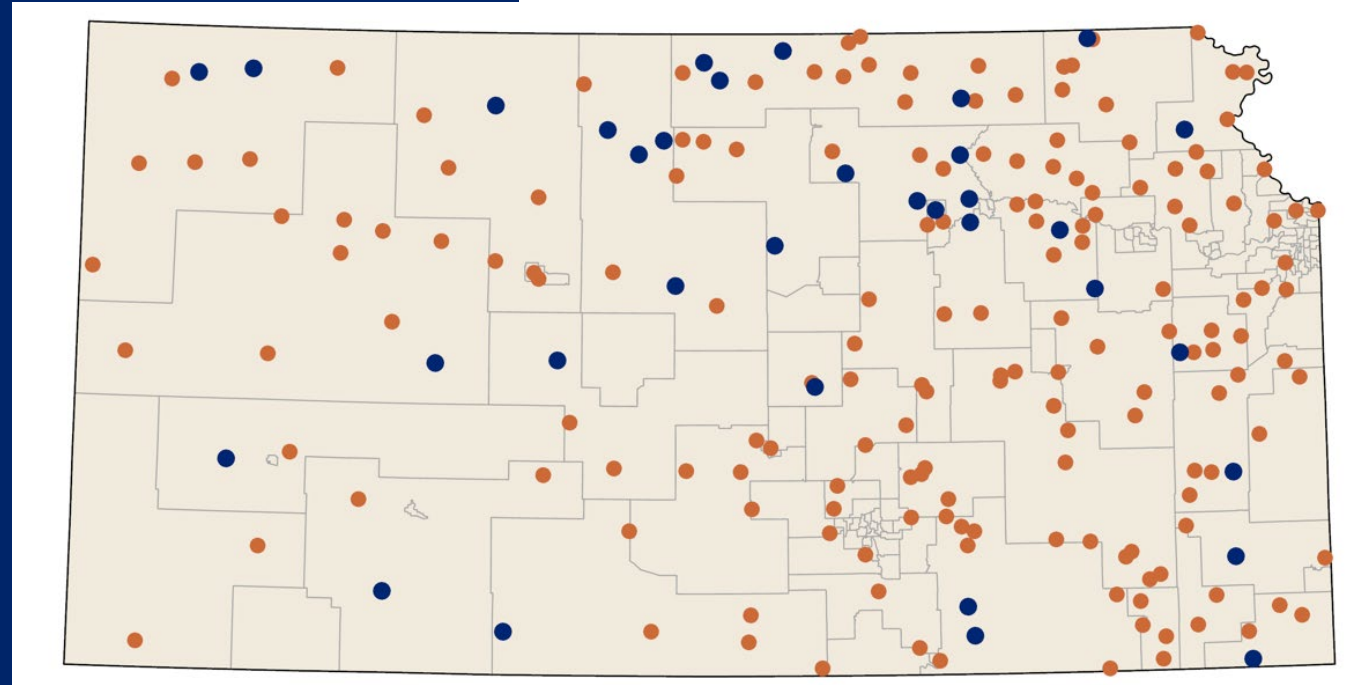


**Water
Projects
Fund Grants**



FY 2024

309 applications submitted.
\$380 million in total requests.
\$18 million available to award.

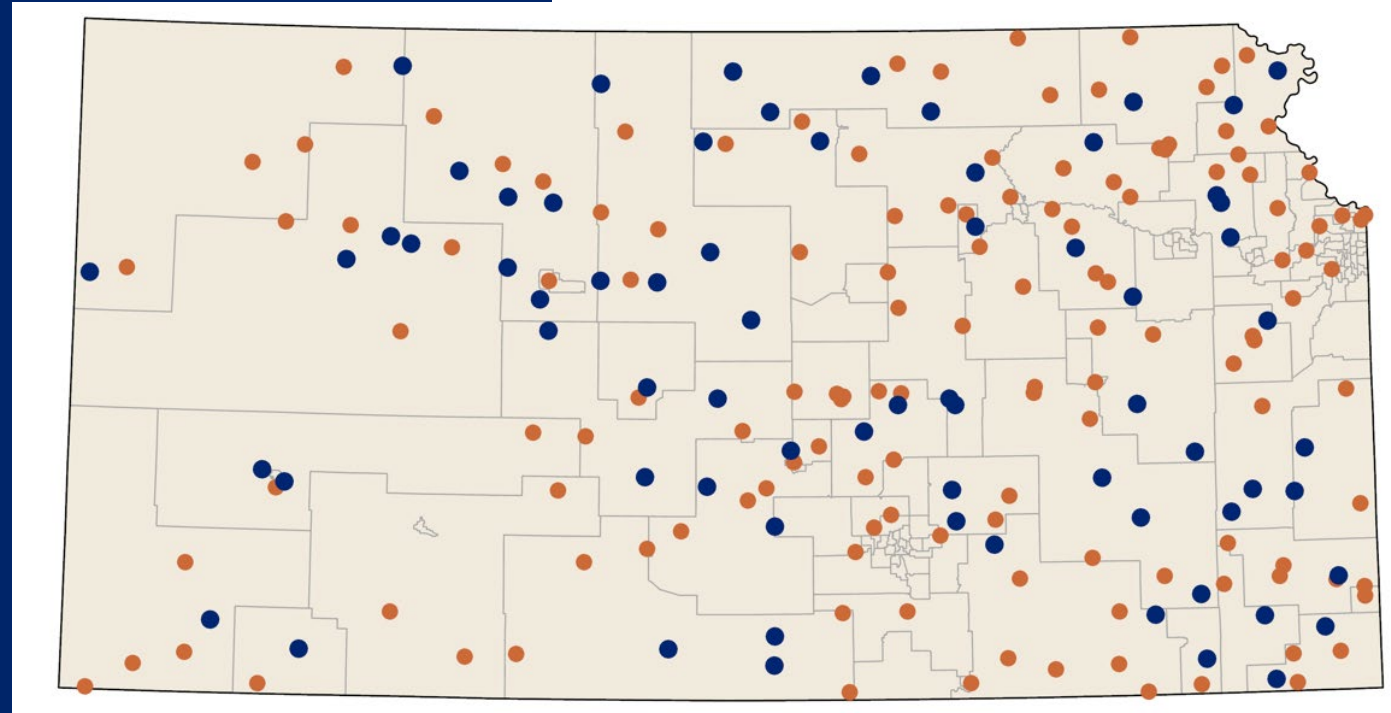


34 grants awarded, totaling \$18 million.

- 19 Technical Assistance Grants
- 15 Water Projects Grants

FY 2025

269 applications submitted.
\$233 million in total requests.
\$27 million available to award.



70 grants awarded, totaling \$26.2 million.

- 39 Technical Assistance Grants
- 31 Water Projects Grants

FY 2026

Application Period: July - September

281 applications submitted.*

\$272 million in total requests.*

\$18 million available to award.

The screenshot shows the Kansas Water Office website. The top navigation bar includes links for Calendar, Become a Partner, Climate & Drought, and State Water Plan Fund. A search bar is located on the right. The main navigation menu includes About Us, News & Events, Water Plan, Reservoirs, Projects, and Climate. The sidebar on the left lists various categories, with 'HB 2302 Grant Programs' highlighted. The main content area features the title 'HB 2302 Grant Programs' and a detailed text description of the program's history and purpose. Below the text, there are links for 'FY 2025 awards have been announced' and 'The grant management portal can be found here'. A list of links includes 'Informational Brochure', 'FY 2025 Grant Guidelines', 'HB 2302 Grant FAQ: Updated 8/23/24', 'FY 2025 Application Questions', 'Budget Submission Example', and 'Affidavit Examples'. At the bottom, there is a dashboard for 'HB 2302 Grant Programs (FY 2025)' showing a total awarded amount of 26.3M, a total amount requested of 11%, and a map of the United States with numbered locations. A table below the dashboard shows the following data:

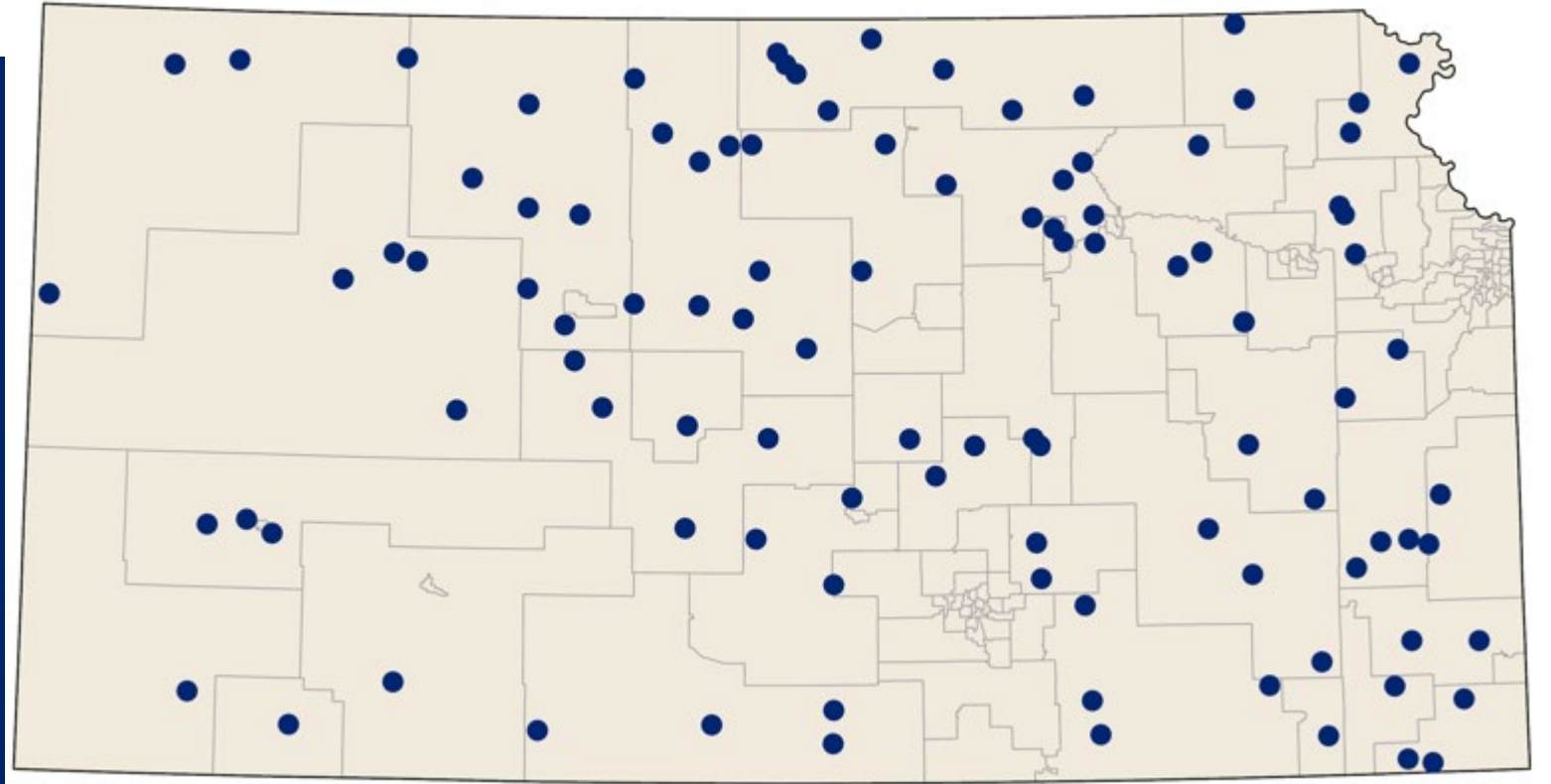
Organization	Type	Funded	Funded Amount
Allen	Municipality	No	0



Awards So Far

104 Communities

\$45 million



Examples of Awarded Projects

Montgomery County RWD No. 9 (TA)

- Preliminary engineering report to improve drinking water distribution system.
- Replace water lines as well as restore interconnection to a secondary water source, City of Elk City, for use during times of drought.
- District faces frequent water main breaks resulting in water loss and potential contamination.

Examples of Awarded Projects

Cuba (WVP)

- Rehabilitate existing water tower including exterior and interior renovations and install frost proof vent and overflow pipe.
- Current paint test are testing positive with high lead levels. Interior rust creates additional contaminants.
- Applicant noted demographic information such as poverty rates and disadvantaged community percentages as compared to the state of Kansas.

Success Stories

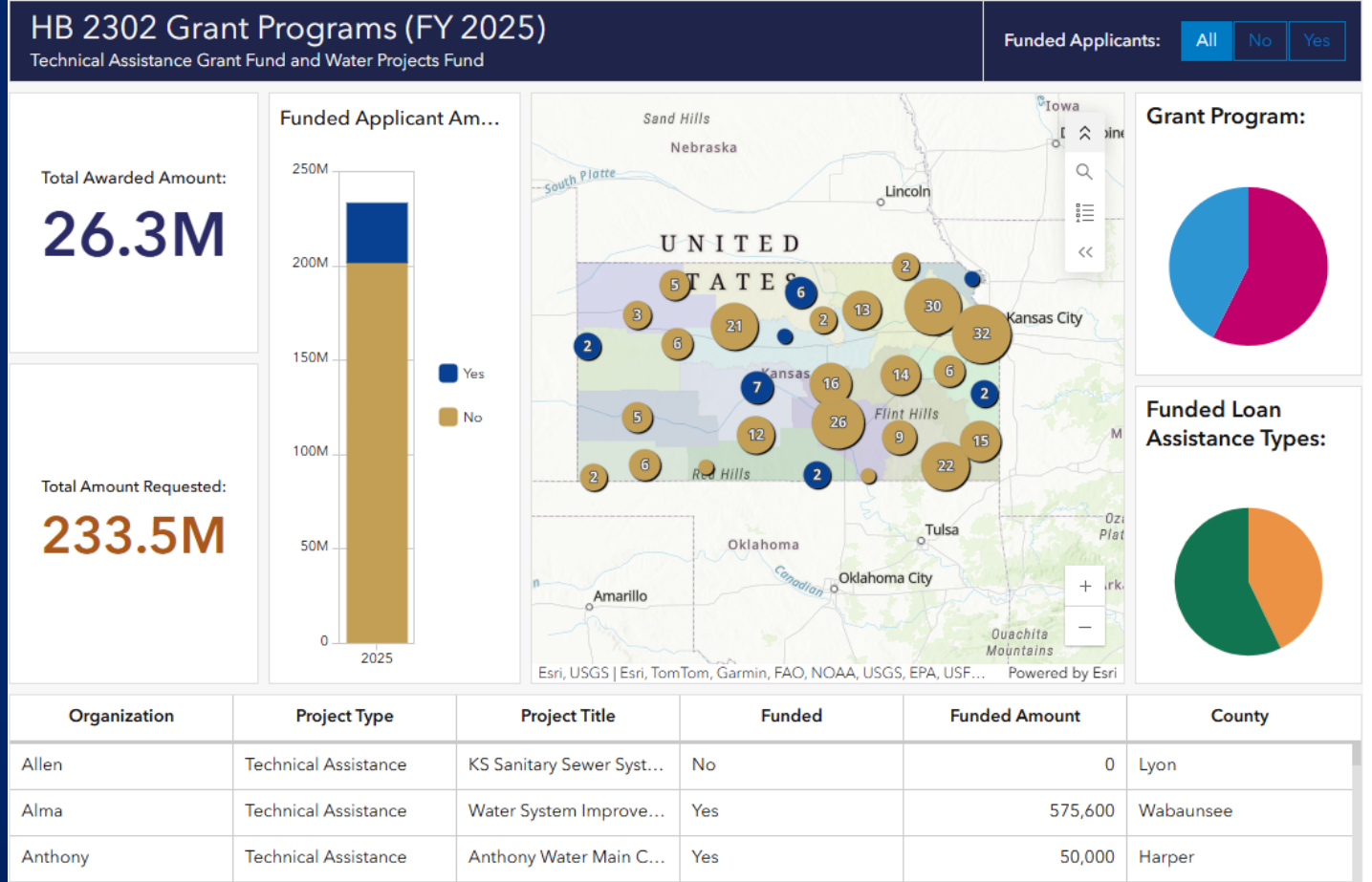
City of Protection



In 2024, the City of Protection received a Technical Assistance Grant through the Kansas Water Office to fund the engineering reports necessary to address aging water infrastructure located below the town's main street.



Explore our interactive map



Thank You

Connie Owen
Director
Connie.owen@ks.gov