

KC Water FY20 CIP

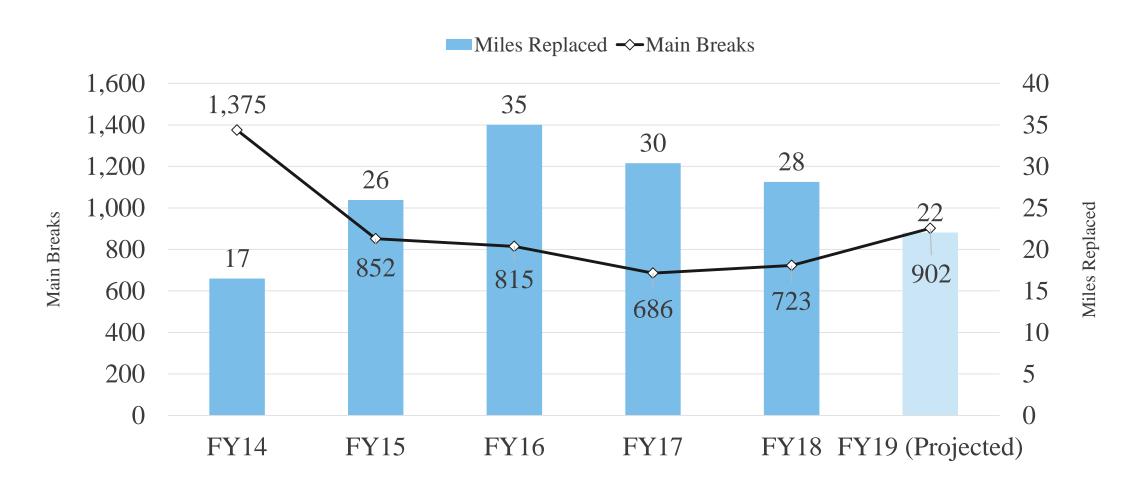
Matt Bond Chief Engineering Officer



WATER PROJECTS



Water Main Replacement Program

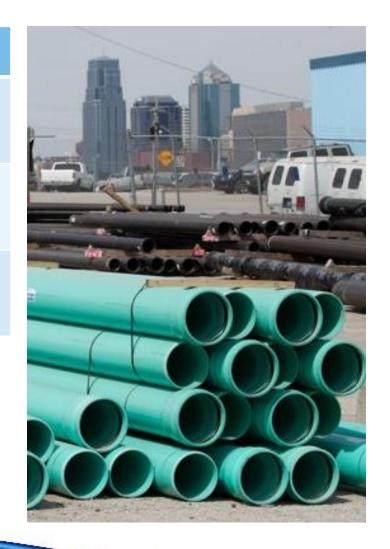




Water Main Replacement Design

Project	Project Manager	Value
SLBE-Water Main Replacements (5 Projects)	TBD	\$1,500,000
Water Main Replacements (8 Projects)	TBD	\$3,500,000
Water Main Replacement Design/Build	TBD	\$4,000,000

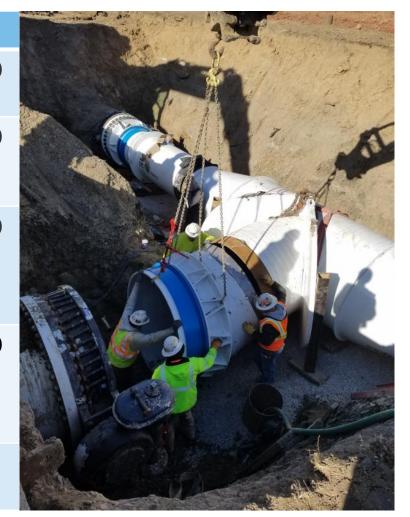
- Slightly fewer, larger projects
- Using design/build
- RFQ/Ps expected in Summer 2019





Transmission and Water Main Construction

Transmission Main Projects	Project Manager	Value
75th Street Transmission Main - Phase 1 (Main Street to Summit Street)	Terry Thomas	\$6,500,000
36"-Waukomis T. M. (Englewood to NW 62 nd St) Project is separate and ahead of road project	Jerry Stevens	\$2,250,000
36"- N. Green Hills Rd. Phase 1 (Platte Brooke Dr. to 78th) Project in conjunction with Public Works Road Project	Melanie Jollett	\$2,250,000
36" & 12"- N. Brighton (58th St to Pleasant Valley Road) Project in conjunction with Public Works Road Project	Kelly Finn	\$3,750,000
30" & 16"-Maplewoods Parkway (96th to 108th St)	Kelly Finn	2,000,000



12 Projected Water Main Replacement Projects--\$23 M



Existing 18th St. Service Center Site

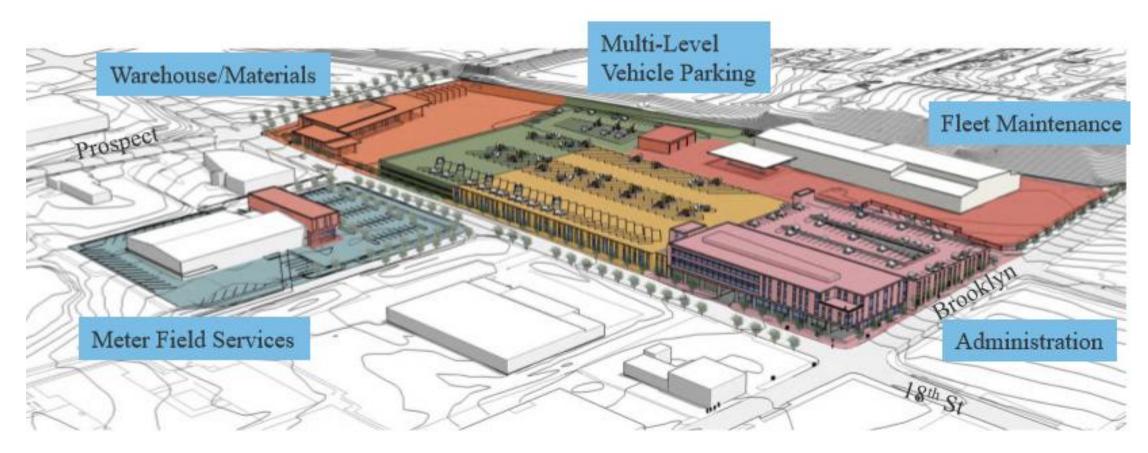
Primary Concerns at Site:

- Safety
- Antiquated work environment
- Substandard and crowded facilities
- Negative image of complex
- 21 Acres needed—>17 Acres Available





Modified Service Center Per Facility Plan



Design/Program Management Services RFQ/P Spring or Summer 2019



WASTEWATER PROJECTS



Wastewater SCADA Phase 1 Construction

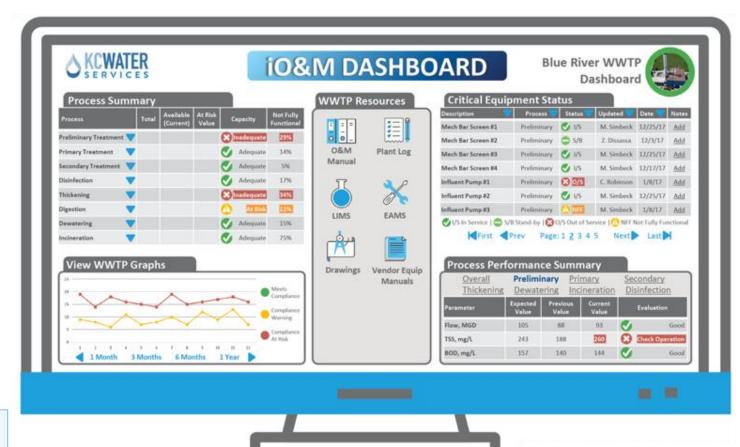
Major Goals

- User-friendly visual interface
- Focused on O&M needs
- Easily expandable
- Programming standards
- Security

Integrate Real Time Data

- Status alarms
- Equipment failure
- Run status
- Instrument readouts







Blue River WWTP Biosolids Processing

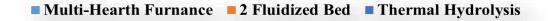
Advanced Digestion (Thermal Hydrolysis)

- Eliminates incineration, emissions
- Maximizes use of existing digesters

Recovers resources:

- 100% Class A Biosolids-suitable for marketing
- Energy recovery
- Phosphorus recovery





Implemented by design/build (Summer RFQ/P)

Approved for Innovative financing

- State Revolving Fund (SRF) Loan
- EPA WIFIA program

Driving Innovations (i.e. BIM Model)





STORMWATER PROJECTS



FY2020 PIAC PROJECTS

Phase	No. of Projects	Value
Construction	3	\$1.6 M
Bid/Construction	14	\$3.3 M
Design, Bid, & Construction	4	\$0.7 M
Design/Bid	4	\$1.3 M

SLBE On Call Services RFQ/P
Expected Early 2020



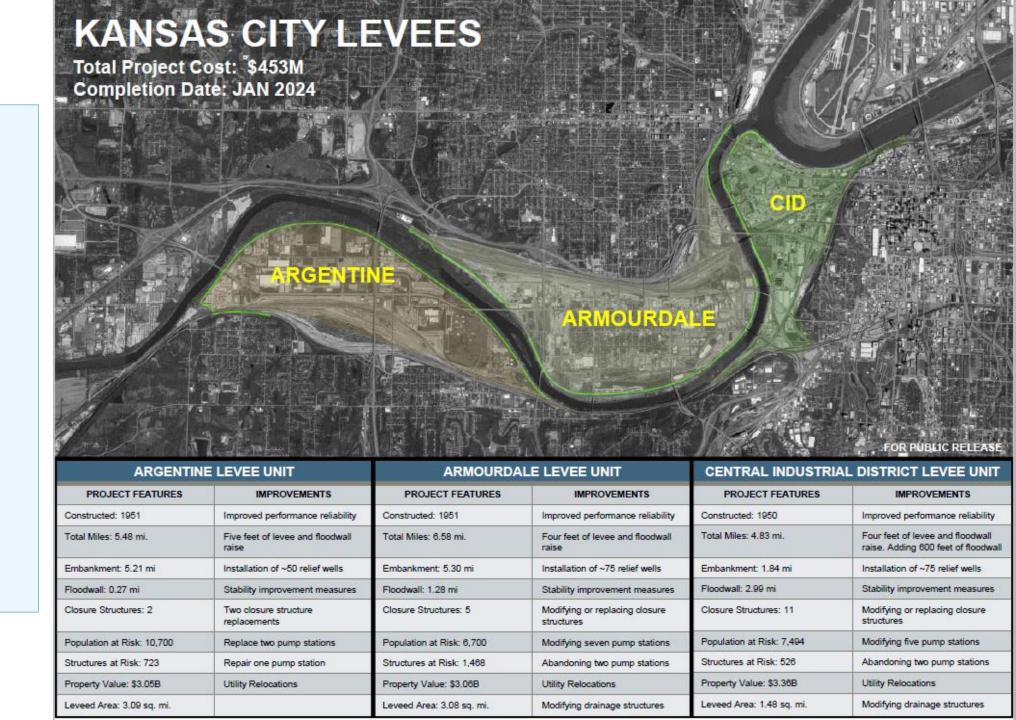




With USACOE, UGWYCO, and Kaw Valley Drainage Dist.

Fully federally funded at ~\$453M

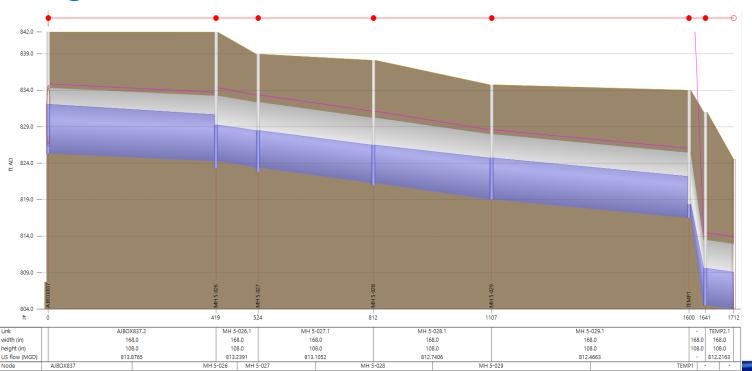
Expect design/build

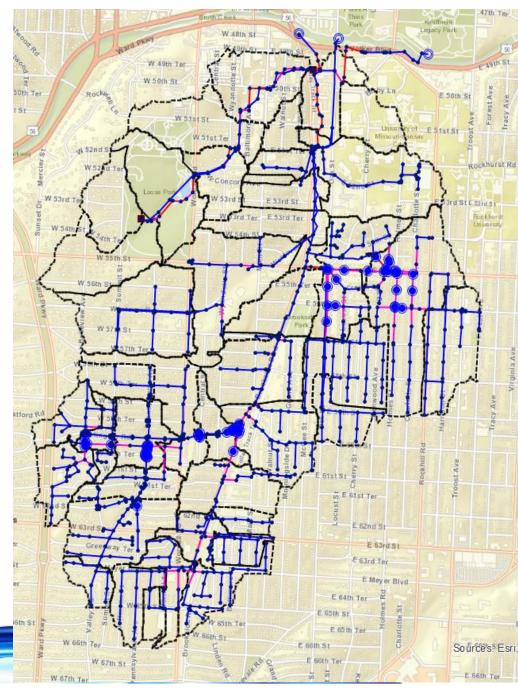


Brookside Stormwater Improvements

Full hydraulic evaluation to maximize system improvements

Integrate with South Streetcar Extension







Brookside Stormwater Improvements

- Primary Goal: reduce flooding
- Balance cost and stormwater performance
- Improve water quality of our local waters
- Utilize Green Stormwater Infrastructure

Initial Interceptor Construction planned from Brush Creek to 56th Terrace

