Monthly Progress Report April 2018



















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Program Overview

Program Overview

Summary

The City of Enid, Oklahoma (City) has historically enjoyed an adequate supply of water resources to support consumers in Enid and its wholesale customers. However, the City's annual water demand has begun to exceed the annual yield of the existing groundwater supply, which has resulted in depletion of the aquifer system. To address this supply gap, the City initiated a Water Master Plan (by others) that recommended developing a new surface water supply from Kaw Lake to supplement the existing groundwater supply.

Key Components

Intake and Intermediate Booster Pump Stations

The intake and intermediate booster pump station will provide the means to pump water from Kaw Lake to Enid. This will include an intake structure on Kaw Lake and an intake pumping station. An intermediate pump station will be located about two-thirds of the way to Enid along the pipeline and will provide additional pressure necessary to convey the design flow to the treatment plant site.

Pipeline

The pipeline will convey the raw water from the proposed Kaw Lake intake structure to the proposed water treatment plant along a 70-mile direct corridor.

Terminal Storage Reservoirs

Terminal storage is employed to provide a constant supply of raw water to the new water treatment plant, and it can also be utilized to minimize costs associated with conveyance of raw water. As such, the main components of the terminal storage assessed for the current project were emergency storage and equalization storage. For this program, the City desires to separate the volume dedicated for equalization storage from the volume for emergency storage. Therefore, the terminal storage is divided into two components:

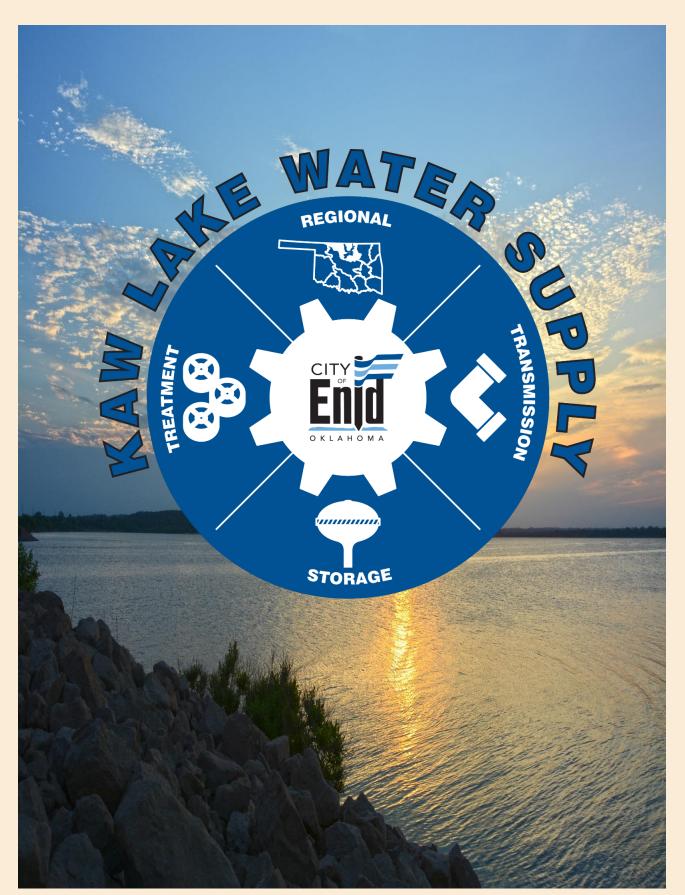
- Equalization (TSR EQ) storage used on a routine basis to meet peak demands
- Emergency (TSR EM) storage used only when raw water conveyance is not in service

Water Treatment Plant

A new surface water treatment plant will be needed to meet the water quality objectives necessary to provide safe drinking water as well as to meet the aesthetic desires such as taste and odor. These objectives can be met by a combination of conventional treatment to produce safe drinking with the addition of polishing to reduce objectionable tastes and odors.

Distribution

Distribution system improvements are necessary to blend the existing groundwater with the treated surface water and to connect the blended water into the existing City of Enid water distribution network.

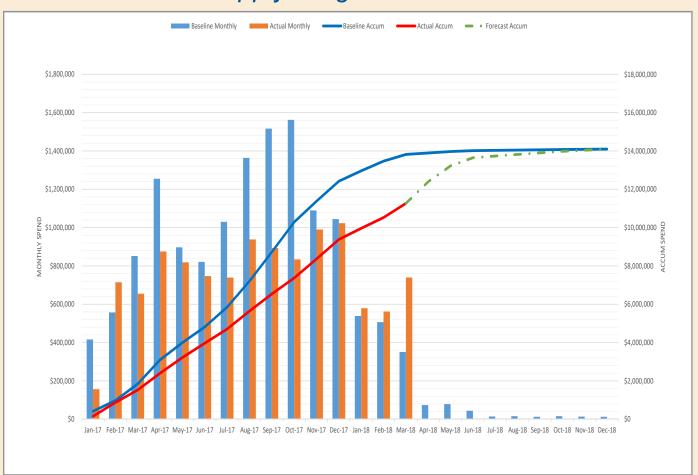




Program Overview

Program Finance - Phase 2

Kaw Lake Water Supply Program CashFlow

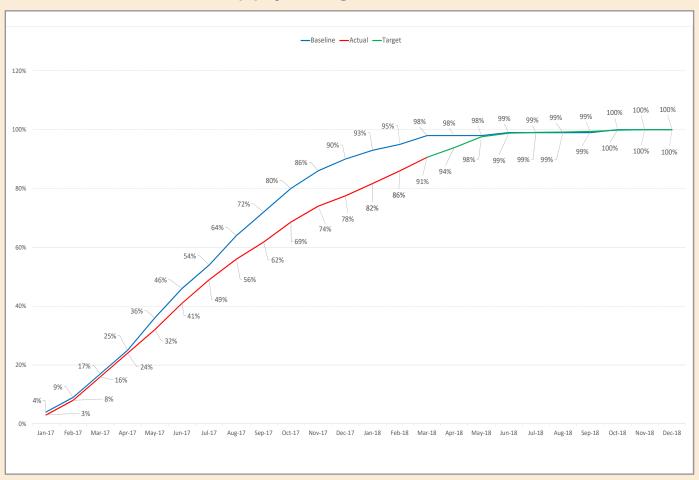


Summary

As of April 2, the accumulate spent is 80% and the planned spend is 98%. A portion of the reduced spending is a result of higher than expected project execution efficiency. Additionally, tasks such as the Design Consultant Standards Manual and the Program Strategy Manual have been deferred to late spring 2018, resulting in a shift of the projected cash flow.

Program Schedule - Phase 2

Kaw Lake Water Supply Program - March 2018



Summary

As of April 2, the schedule has an overall progress of 91% with a planned progress of 98%. The shift in the target progress shown above is a product of the implemented recovery plan. The recovery plan allowed for additional resources to be utilized for the completion of the 30% design and updated cost estimate to maintain their original submittal date while deferring less critical activities, such as the Design Consultant Standards Manual and Program Strategy Manual, to late spring 2018.



Program Administration

Scope of Services

Garver is providing project administration and controls initiation through Phase 2, including reporting on the various aspects of the program management, scheduling and budget status updates, coordination of regulatory and funding agencies, as well as stakeholders and public meetings. Primary deliverables include a Design Consultants Standards Manual and updating the Program Strategy Manual. In addition, the Garver Technical Review Committee is providing review and oversight of the deliverables produced by the Infrastructure Teams.



Project Update

The program phasing planning and value engineering continued as the teams provided insight into the effects of phasing decisions and supported the City's impact analysis. Discussion and analysis of the phasing options with the City resulted in decisions on preferred phasing selections. Subsequently, the teams worked to prepare the Phasing Plan in accordance with the City's decisions. Final deliverables for the preliminary engineering of Phase 2 were updated to address the City's comments and to create the formal baseline for the program. Technical Review Committees evaluated the deliverables and final edits in response to state of the practice reviews are being integrated. With decisions pending on the phasing options, the Design Consultant Standards Manual development was initiated. Teams are working to prepare the design criteria, contract documents, standard details, and specifications necessary for future final design in Phase 3. The Program Strategy Manual development continues in light of the likely contract packaging and projected program budget. With vision to the future, the team also proposed support options to identify funding mechanisms that may be available to the City for the implementation of this program. Risk management, schedule and cost management, and program oversight continued to finalize upcoming major deliverables for the 30% design.

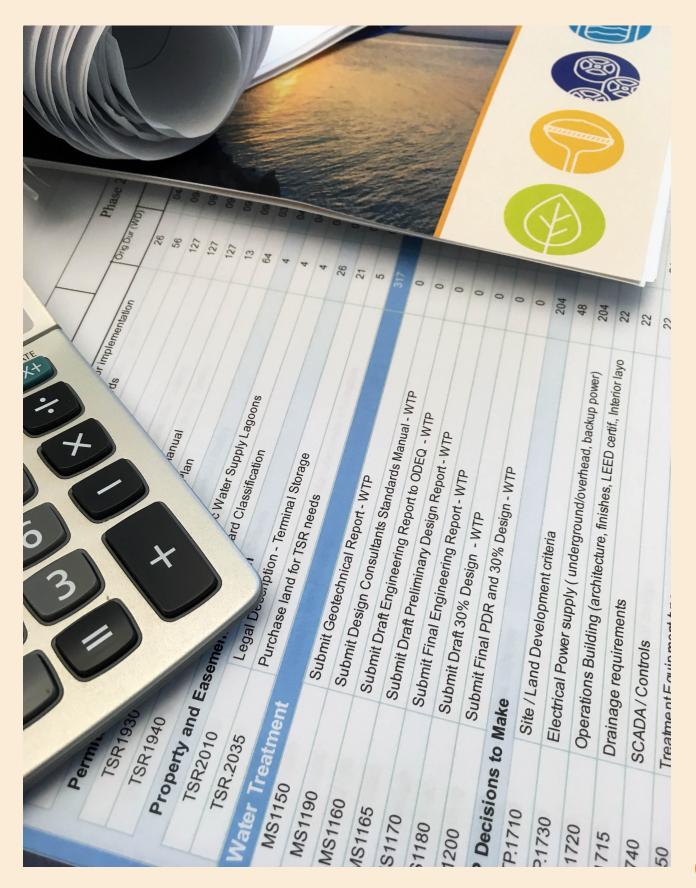


Completed

- Technical Review Committees for Phasing Recommendation and Preliminary Design Reports
- Interface identification is complete for phased plans
- Schedule and cost updates of the Master Project Schedule



- Finalize Phasing Plan to define current and future system configurations that meet City needs within the budget
- Deliver final Preliminary Design Reports for Intake, Pipeline, Terminal Storage, Water Treatment Plant, and Distribution
- · Deliver Phasing Plan
- Deliver final 30% design and cost estimate
- On-going development of Program Strategy Manual for Phase 3
- On-going development of Design Consultant Standards Manual



Intake and Pump Stations

Scope of Services

The scope of services includes surveying, geotechnical investigations, preliminary (30% complete) design, investigation of property acquisition and development of design consultant standards for a new raw water intake and pumping station located on Kaw Lake at Intake Site No. 2 and an intermediate booster pump station as identified in Phase 1 of the project.

The intake is expected to include a shaft and microtunnel with vertical turbine pumps in a parallel configuration with a design capacity to meet the targets identified during Phase 1 of the Program. The intermediate booster pump station is expected to consist of parallel horizontal split case pumps housed in an at-grade structure. The intermediate booster pump station is also expected to include approximately 5 million gallons of stored raw water within two ground storage tanks.



Project Update

The team finalized value engineering and phasing plan concepts for the Intake and Intermediate Booster Pump Station. Items and quantities were tabulated to generate approximate cost savings and/or deferred cost. Additionally, the 30% design drawings and Preliminary Design Report were updated to reflect the comments received from the City.



Completed

- Finished development of phasing and value engineering options
- Generated worksheets detailing various concepts with approximate costs for the Intake and Intermediate Booster Pump Station
- Finalized updates to Transient Analysis (Surge) Model and Technical Memo
- Tabulated design, construction, and operations risks for the Intake and Intermediate Booster Pump Station

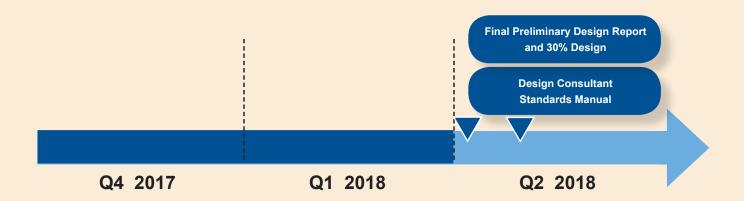


- Submit final Preliminary Design Report, including 30% opinion of probable construction, operations and maintenance costs
- Submit final Transient Analysis (Surge) Technical Memo
- Submit a final 30% design drawings
- Continue to prepare Design Consultant Standards Manual and Technical Specifications





Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake Wa	er Supply Program - Current Schedule	53	04-May-18
Intake (INT,IBPS,GST)		53	04-May-18
MS1050	Submit Final PDR and 30% Design - Intake, Intermediate BPS and GS Tank	0	02-Apr-18*
MS1040	Submit Design Consultants Standards Manual for Internal Review - Intake, IBPS, 0	0	30-Apr-18*
Intake (INT,IBPS,GST) 30%	6 Design	12	02-Apr-18
Intake (INT,IBPS,GST) Fina	36	30-Apr-18	
Intake (INT,IBPS,GST) Pro	perty and Easement Acquisition Documents	53	04-May-18



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			•	▼ In	take (II	NT,IBF	S,GST) Prop	erty ar	d Ease	ment	Acquisi	tion Do	cume	nts		



Pipeline

Scope of Services

The scope of services includes surveying, geotechnical, alignment analysis, preliminary (30% complete) design, investigation of future property acquisition and development of design consultant standards for a new raw water pipeline from Kaw Lake at Intake Site No. 2 to a new water treatment plant as identified in Phase 1 of the project. The pipeline will consist of approximately 70 miles of pipe along the direct corridor with a design capacity to meet the targets identified during Phase 1 of the Program. This task generally consists of providing final pipeline alignment selection within the Direct Corridor and preparation of aerial background plans.



Project Update

The team is preparing updates to the mapbook and parcel tracking information to provide information to City staff on a weekly basis. The team is continuously updating the web mapping site to allow the City and team members to see the updated alignment, as well as adding the ability to track parcel access. The Pipeline Team is heavily involved in coordinating with other project teams on proposed layouts, connections, and various other design criteria, as well as coordinating and reviewing geotechnical field investigations. Revisions to the draft Preliminary Design Report have been made based upon City review and Technical Review Committee review comments. The supplemental geotechnical analysis is wrapping up with a draft Technical Memorandum submitted to the Technical Review Committee for review. Some analysis results are sill outstanding and will be incorporated into the final Technical Memorandum. Property surveys for Garfield County, and portions of Noble County, have been received and design updates are being made to the 30% design. Final deliverables are on schedule to be submitted in early April.

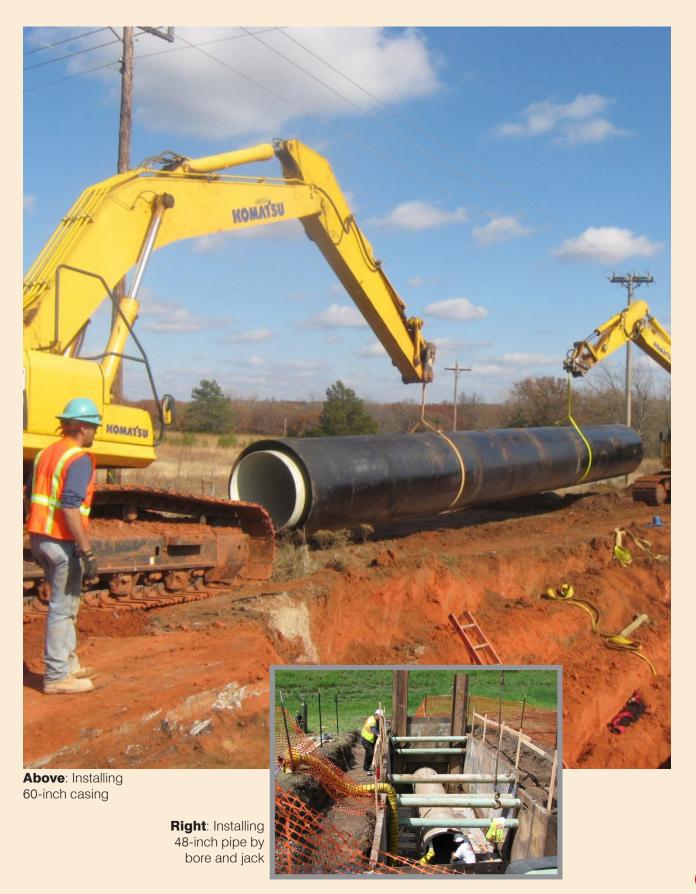


Completed

- Ongoing updates to the web mapping tool and map book for the entire pipeline alignment
- Finalized the phasing plan options
- Reviewed and addressed City comments pertaining to the draft Preliminary Design Report and 30% design drawings
- Completed the final Preliminary Design Report and 30% design drawings
- Submitted draft Geotechnical Technical Memorandum for Finite Element Analysis for in situ backfill material for Technical Review Committee review



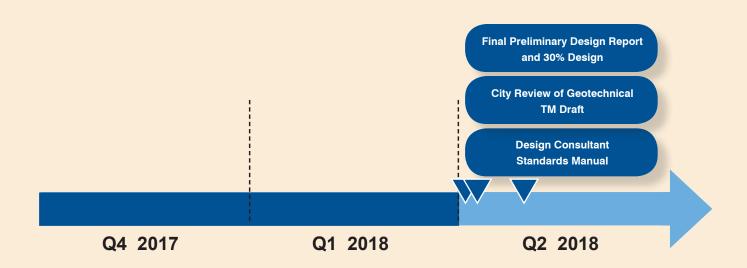
- Submit final Preliminary Design Report
- Submit final 30% design drawings and 30% opinion of probable construction cost based upon comments received
- Submit draft Geotechnical Technical Memorandum for Finite Element Analysis for in situ backfill material for City review
- Continue geotechnical laboratory testing of available and most recent samples collected along alignment
- Prepare final Geotechnical Technical Memorandum for Finite Element Analysis for in situ backfill material for Technical Review Committee review
- Refine and revise final 30% design drawings as boundary survey is received
- Prepare Design Consultant Standards Manual and Standard Details and Specifications

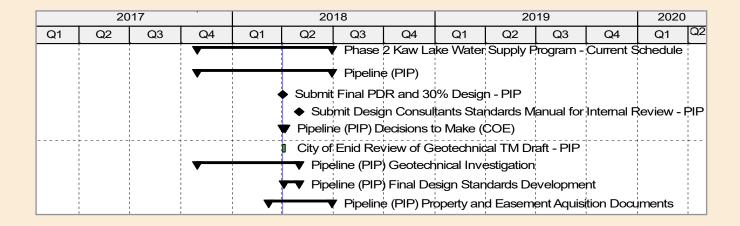






Activity ID	Activity Name	Orig Dur (WD)	Finish		
Phase 2 Kaw Lake Wate	er Supply Program - Current Schedule	168	28-Jun-18		
Pipeline (PIP)		168	28-Jun-18		
MS1090	Submit Final PDR and 30% Design - PIP	0	02-Apr-18*		
MS1085	Submit Design Consultants Standards Manual for Internal Review - PIP	0	30-Apr-18*		
Pipeline (PIP) Decisions to	Make (COE)	10	06-Apr-18		
PMx.COED.TRCD.GT.00	City of Enid Review of Geotechnical TM Draft - PIP	10	06-Apr-18		
Pipeline (PIP) Geotechnica	Pipeline (PIP) Geotechnical Investigation				
Pipeline (PIP) Final Design	20	30-Apr-18			
Pipeline (PIP) Property and	Easement Aquisition Documents	80	28-Jun-18		





Terminal Storage

Scope of Services

The scope of services includes surveying, geotechnical, preliminary (30% complete) design and development of design consultant standards for a new raw water terminal storage in two separate locations: one for emergency storage and one for equalization storage as identified in Phase 1 of the project.



Project Update

The Terminal Storage Reservoirs Preliminary Design Report and 30% design drawings have incorporated all City and Technical Review Committee review comments and are complete. Development of phasing and value engineering options are finished. Design standards, criteria, and standards details are in the process of being developed for incorporation into the Design Consultant Standards Manual.



Completed

- Completed the final 30% design drawings
- Completed the final Preliminary Design Report for the Terminal Storage Reservoirs
- Finished development of phasing and value engineering options
- Generated worksheets detailing various concepts with approximate costs for Terminal Storage Reservoirs



- Complete phasing plan for the Terminal Storage Reservoirs
- Prepare Standard Specifications
- · Prepare Standard Details
- Prepare Design Consultant Standards Manual
- Submit final Preliminary Design Report, including 30% opinion of probable construction, operations and maintenance costs



Rendering of equalization terminal storage reservoir at water treatment

plant

Right: Example terminal storage reservoir under construction





Activity ID	Activity Name	Orig Dur (WD)	Finish				
Phase 2 Kaw Lake Wat	Phase 2 Kaw Lake Water Supply Program - Current Schedule						
Terminal Storage Rese	rvoirs (TSR)	20	30-Apr-18				
MS1140	Submit Final PDR and 30% Design - TSR	0	02-Apr-18*				
MS1120	Submit Design Consultants Standards Manual for Internal Review - TSR	0	30-Apr-18*				
TSR Final Design Standard	ls Development	20	30-Apr-18				



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Water Treatment Plant

Scope of Services

The scope of services includes surveying, geotechnical, preliminary (30% complete) design, investigation of property acquisition, and development of design consultant standards for a new Enid water treatment plant located adjacent to the City's current water treatment plant No. 2.

The planned capital improvements include construction of a new conventional water treatment plant with ozone and granular activated carbon facilities to meet capacity and treatment goals identified during Phase 1 of the Program.



Project Update

The team has addressed all comments from the City staff and internal Technical Review Committee and is preparing to submit the final Preliminary Design Report and 30% design drawings. Cost analysis of phasing and other cost-saving alternatives have been refined for further consideration by the City prior to incorporation into the final phasing plan. Treatability results have been compiled and included in the Preliminary Design Report deliverable and are being incorporated into the Engineering Report. The City's comments on the Engineering Report are being addressed and preparation of the submittal to the Oklahoma Department of Environmental Quality has begun. The team has begun developing specifications and standard details for incorporation into the Design Consultant Standards Manual.

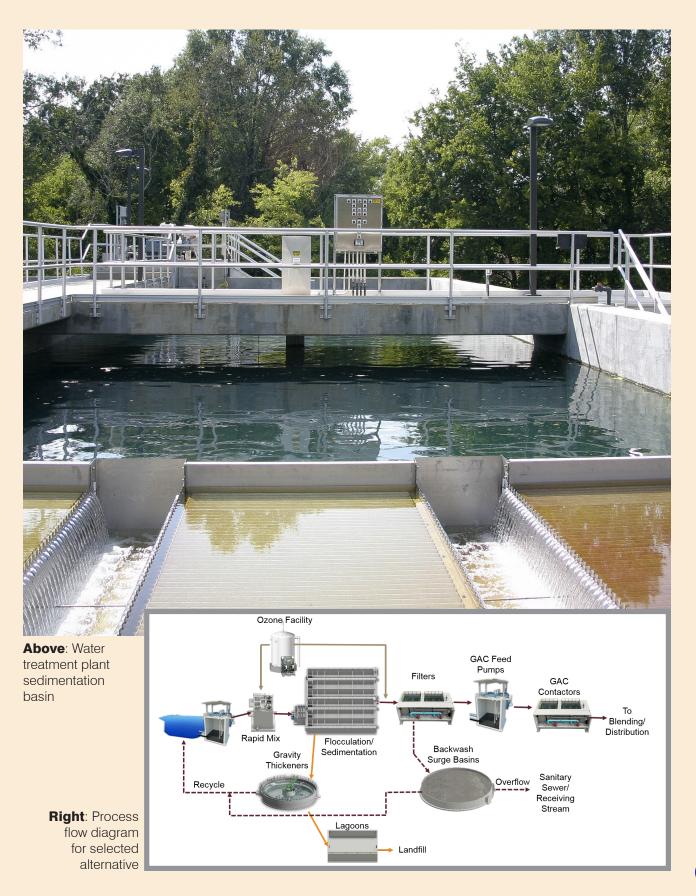


Completed

- Completed the final Preliminary Design Report
- Completed the final 30% design drawings
- Recommended phasing plan options for the Water Treatment Plant
- Generated worksheets detailing various concepts with approximate costs for the Water Treatment Plant
- Granular Activated Carbon Treatability Testing

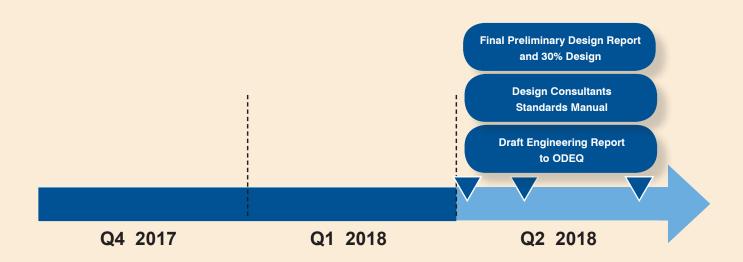


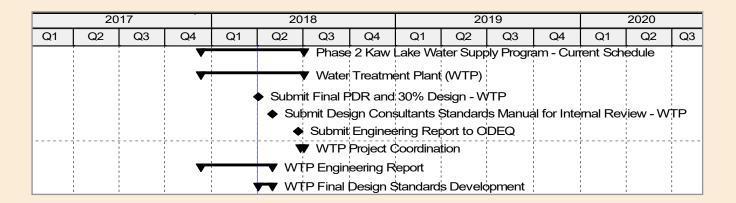
- Address City review comments and complete phasing plan for the Water Treatment Plant
- Revise the Engineering Report for the Oklahoma Department of Environmental Quality based on the preferred Phasing Plan
- Prepare Design Consultant Standards Manual
- Submit final Preliminary Design Report, including 30% opinion of probable construction, operations and maintenance costs





Activity ID	Activity Name	Orig Dur (WD)	Finish			
Phase 2 Kaw Lak	e Water Supply Program - Current Schedule	178	02-Jul-18			
Water Treatment I	Plant (WTP)	178	02-Jul-18			
MS1200	Submit Final PDR and 30% Design - WTP	0	02-Apr-18*			
MS1190	Submit Design Consultants Standards Manual for Internal Review - WTP	0	30-Apr-18*			
MS1160	Submit Engineering Report to ODEQ	0	22-Jun-18			
WTP Project Coordi	WTP Project Coordination					
WTP Engineering Ro	eport	22	02-May-18			
WTP Final Design S	tandards Development	20	30-Apr-18			







Distribution

Scope of Services

Generally, the scope of services includes surveying, geotechnical, preliminary (30% complete) design, investigation of property acquisition, and development of design consultant standards for new distribution infrastructure (pumping, storage, and piping) as identified in Phase 1 of the project.

The pumping improvements will include the construction of a new high service pump station adjacent to the water treatment plant capable of conveying flow to both pressure planes and the decommissioning of the existing high service pump stations. The storage improvements will consist of adding a new 8 million gallon ground storage tank adjacent to the new high service pump station. The piping improvements will include the piping necessary to blend the groundwater supply with the treated surface water prior to the high service pump station, as well as the piping necessary to convey water to the east pressure plane.



Project Update

The preliminary design work for the transmission main, high-service pump station, blended storage tank, and site civil was completed, incorporating City review comments. The report for geotechnical investigations along the transmission main was completed, and processing of property survey information along the transmission main corridor continues. The phased implementation of the distribution integration improvements, the final review and finalization of the Preliminary Design Report were completed.

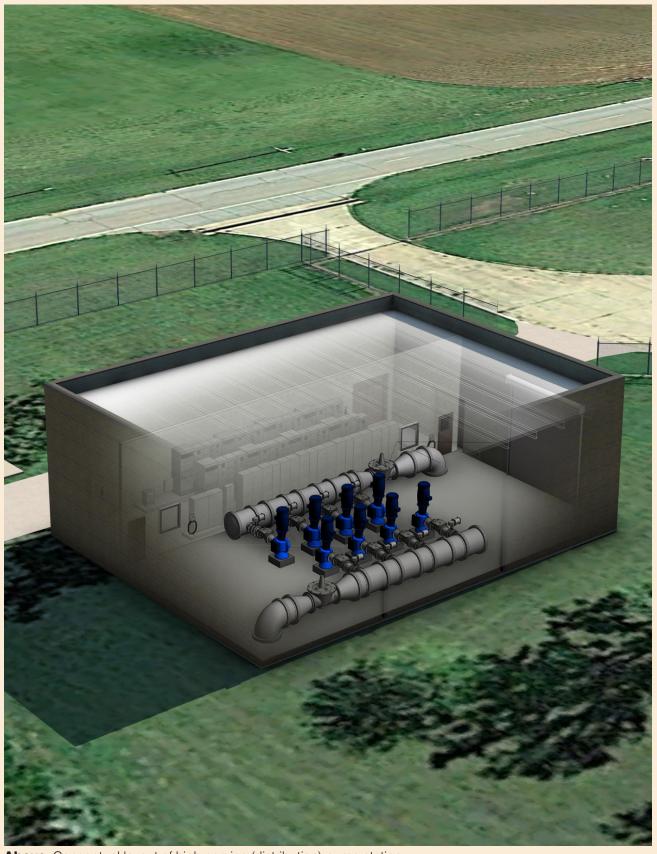


Completed

- Completed final 30% design drawings and 30% opinion of probable construction cost
- Completed internal review of Preliminary Design Report
- Completed final Preliminary Design Report
- Completed Distribution Interface Phasing options
- Generated worksheets detailing various concepts with approximate costs for the Distribution Interface



- Complete property surveys along transmission main corridor
- Prepare documentation for potential easement and property acquisition along the transmission main, including legal descriptions of the temporary and permanent easement acquisition for each affected property along the transmission main
- Finalize Distribution Interface Phasing Plan
- Prepare Design Consultant Standards Manual
- Submit final Preliminary Design Report, including 30% opinion of probable construction, operations and maintenance costs

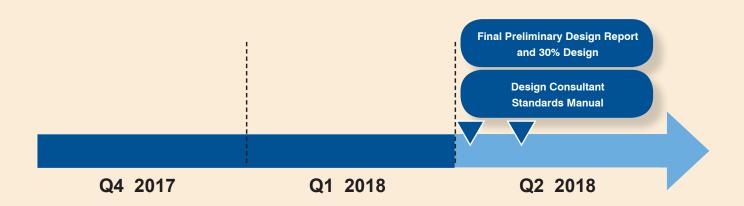


Above: Conceptual layout of high-service (distribution) pump station





Activity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw La	ke Water Supply Program - Current Schedule	289	30-Apr-18
Distribution Sys	tem (DIS)	289	30-Apr-18
MS1250	Submit Final PDR and 30% Design - DIS	0	02-Apr-18*
MS1240	Submit Design Consultants Standards Manual for Internal Review - DIS	0	30-Apr-18*
DIS Project Coordi	nation	20	16-Apr-18
DIS Final Design S	20	30-Apr-18	
DIS Property and E	asement Acquisition Documents	72	16-Apr-18



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Environmental

Scope of Services

This scope of work includes activities to support document preparation as required of the National Environmental Policy Act (NEPA) (42 U.S.C. 4321 et seq.) in accordance with the procedures set forth in Council on Environmental Quality Regulations Implementing the Procedural Provision of NEPA (40 CFR 1500-1508) and in the U.S. Army Corps of Engineers (USACE) Procedures for Implementing NEPA (33 CFR 230). The U.S. Army Corps of Engineers, Tulsa District, will serve as the lead federal agency for the project.

It is anticipated that the NEPA Class of Action for this Program will be an Environmental Assessment and will analyze the impacts of a No Build and one Build Alternative (Proposed Action) for each of the project's infrastructure components [intake, pipeline, terminal storage reservoir (emergency and equalization), treatment plant, and distribution system].



Project Update

Biological and cultural field studies are complete for the intake, water treatment plant, and distribution. Biological and cultural field studies for the pipeline are approximately 93% complete, including tribal properties. Remaining properties to be surveyed include twelve parcels where access has been denied. The U.S. Army Corps of Engineers and Oklahoma State Archeologist have approved methods for the archeological deep testing (trenching). The properties where trenching is proposed have been identified and letters and maps prepared to request access.

Discussions with the U.S. Army Corps of Engineers have clarified that the environmental studies and NEPA document must cover all property affected by the program. Therefore, access must be gained to all properties and studies completed before specialist reports and the Environmental Assessment can be completed.

Work on the biological, hazardous materials, and cultural resources reports is ongoing. Shape files of aquatic resources to be updated based on additional field work.



Completed

- Completed Intake, Water Treatment Plant, and Distribution Biological and Cultural Resource Studies
- Completed approximately 93% of the biological and cultural field work along the pipeline, including the tribal parcels
- Completed biological and cultural field work at Emergency Terminal Storage Reservoir site and Intermediate Booster Pump Station site – no findings
- Completed approximately 90% of Wetland and Threatened and Endangered Species Reports
- Completed approximately 95% of the Hazardous Materials Report



- Meet with the City staff to develop a plan to request rights of entry on denied parcels
- Approach property owners where rights of entry are still needed for environmental surveys and for archeological trenching
- Complete cultural resources and biological studies for private property where access has been denied, anticipated completion pending right-of-entry
- Notify all owners where archeological trenching is needed and conduct trenching, once approval is received
- Complete Biological, Hazardous Materials, and Cultural Resources Reports
- Preparation of the Draft Environmental Assessment



Above: Kaw Lake shoreline





vity ID	Activity Name	Orig Dur (WD)	Finish
Phase 2 Kaw Lake V	Vater Supply Program - Current Schedule	594	30-Aug-19
Environmental (ENV	<u>'</u>	594	30-Aug-19
ENV Specialist Studies		423	31-Dec-18
ENV.1950D	Hazardous Materials Memo	47	15-Jun-18
ENV.1950B	Threatened & Endangered Species Report	60	15-Jun-18
ENV.1950A	Wetland and Stream Delineation Report	60	15-Jun-18
ENV.1950B.1.1	Technical Review Committee Review of Threatened & Endangered Species Re	10	29-Jun-18
ENV.1950A.1.1	Technical Review Committee Review of Wetland and Stream Delineation Repo	10	29-Jun-18
ENV.1950D.1.1	Technical Review Committee Review of Hazardous Materials Memo	10	29-Jun-18
ENV.1950D.1	City of Enid Review of Hazardous Materials Memo	10	16-Jul-18
ENV.1950B.1	City of Enid Review of Threatened & Endangered Species Report	10	16-Jul-18
ENV.1950A.1	City of Enid Review of Wetland and Stream Delineation	10	16-Jul-18
ENV.1950B.2	Revisions of Threatened & Endangered Species Report	5	23-Jul-18
ENV.1950A.2	Revisions of Wetland & Stream Delineation Report	5	23-Jul-18
ENV.1950D.2	Revisions of Hazadous Materials Memo	5	23-Jul-18
ENV.1950C	Cultural Resources Report	17	14-Aug-18
ENV.1950C.1.1	Technical Review Committee Review of Cultural Resources Report	10	28-Aug-18
ENV.1950C.1	City of Enid Review of Cultural Resources Report	10	12-Sep-18
ENV.1950C.2	Revisions of Cultural Resources Report	5	19-Sep-18
ENV.1100B	USACE Review of Threatened & Endangered Species Report	42	20-Sep-18
ENV.1100A	USACE Review of Wetland & Stream Delineation Report	42	20-Sep-18
ENV.1100B.1	USFWS Review of Threatened & Endangered Species Report	30	01-Nov-18
ENV.1100C	USACE Review of Cultural Resources Report	40	14-Nov-18
ENV.1100C.1	SHPO Review of Cultural Resources Report	30	31-Dec-18
ENV for PIP		311	20-Jul-18
ENV Environmental As	sessment	229	27-Mar-19
ENV.1120	Prepare Draft EA - Introduction and Background	10	15-May-18
ENV.1123	Prepare Draft EA - Existing Conditions	5	22-May-18
ENV.1121	Prepare Draft EA - Environmental Impacts	22	22-Jun-18
ENV.1122	Prepare Draft EA - Public Involvement summary	22	22-Jun-18
ENV.1124	Prepare Draft EA - Summary and Commitments	10	09-Jul-18
ENV.1124A	Technical Review Committee Review of Draft EA	10	23-Jul-18
ENV.1124B	City of Enid Review of Draft EA	10	06-Aug-18
ENV.1125	Produce and Submit Draft EA	5	21-Aug-18
ENV.1110	USACE & Cooperating Agency Review of EA	31	04-Oct-18
ENV.1080	Draft FONSI	10	15-Jan-19
ENV.1130	Public Comment Period - FONSI	21	13-Feb-19
ENV.1140	Review & Incorporate Public Comments	10	27-Feb-19
ENV.1150	FINAL EA Approval	20	27-Mar-19
ENV Section 408 Appro	oval	50	06-Jun-19
ENV Section 404 Pre-C	Coordination	282	30-Aug-19



