



***Large Construction Contracts Update***  
***Department of Public Utilities***

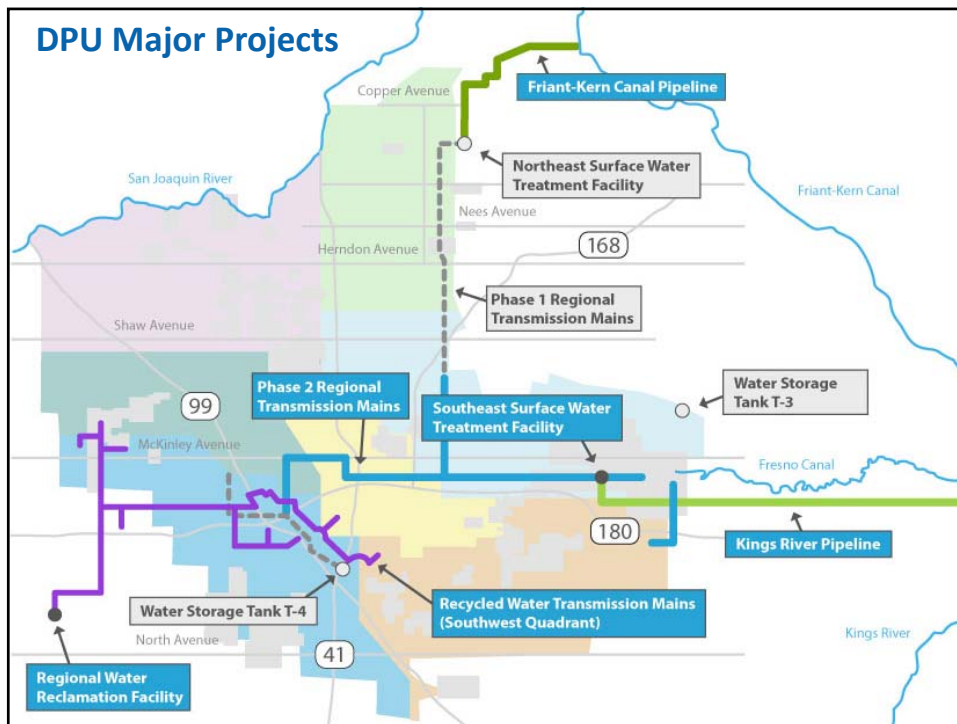
*Capital Project Oversight Board Meeting* *November 06, 2017*

**Discussion Topics**



- *Major Project Overview*
- *Project/Contract Status and Construction Change Review*





Major Construction Contracts				
Ongoing				
Construction Contract	Bid	Award	NTP	Substan. Compl.
<i>Raw Water</i>				
Friant-Kern Canal Pipeline	✓	✓	✓ May '16	Nov '17
Kings River Pipeline	✓	✓	✓ Jun '16	Dec '17
<i>Potable Water</i>				
SE Surface Water Trmt Facility	✓	✓	✓ Dec '15	Jun '18
RTM Segment A1	✓	✓	✓ Aug '16	Nov '17
RTM Segment A2	✓	✓	✓ Nov '16	Feb '18
<i>Recycled Water</i>				
SW RWTM Segment SW1B	✓	✓	✓ Feb '16	Nov '17
SW RWTM Segment SW1C	✓	✓	✓ May '16	Oct '17
SW RWTM Segment SW1C2	✓	✓	✓ Oct '17	Jun '18

## Discussion Topics



- *Major Project Overview*
- *Project/Contract Status and Construction Change Review*



## Friant Kern Canal Pipeline (FKCP)



### OVERVIEW

- 4.5 miles of 60-inch diameter pipeline
- Water source for NESWTF

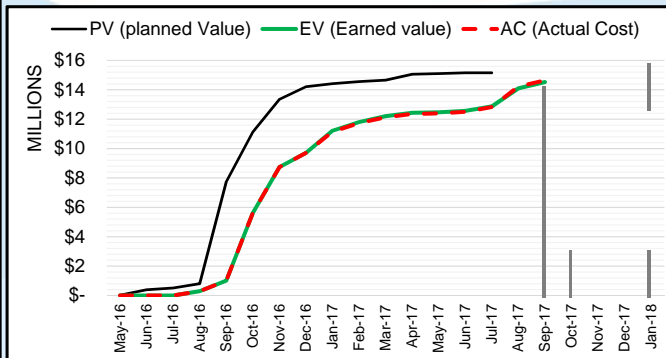
### CONSTRUCTION SCHEDULE

- Notice to proceed: 05/31/16
- Original duration: 500 days
- *Addl days: 0 change, 96 rain*
- Final completion: 1/16/18
- Time elapsed: 87%

### CONTRACT VALUE

- Original contract: \$ 15,157,862
- Suppl budget: \$ 300,000
- *Change orders: \$ 787,223*
- Current contract: \$ 15,945,085
- Actual cost: \$ 14,644,404
- Percent spent: 92%

## Friant Kern Canal Pipeline (FKCP)



**Cost Index, CPI =**  
 $\text{Earned/Actual} = 1.0$   
**Sched Index, SPI =**  
 $\text{Earned/Planned} = 1.0$

- Contractor originally planned early finish but was impacted by weather.
- 96 day contract extension for excessive rain days.
- Anticipate completion slightly before current contract deadline.

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Nesting Birds in Work Zone: ~ \$178k
- Existing 60" Pipe Repairs: ~ \$75k
- Misc lost production and delay claims: ~ \$300k
  - Friant-Kern Canal availability
  - Rock excavation
  - Design modifications

## Kings River Pipeline (KRP)



### OVERVIEW

- 13 miles of 72-inch diameter pipeline
- Water source for SESWTF

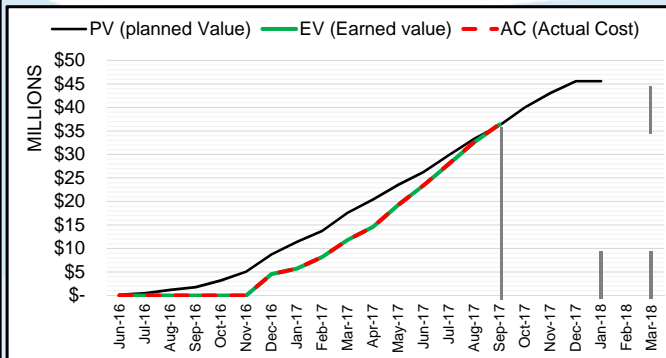
### CONSTRUCTION SCHEDULE

- Notice to proceed: 06/27/16
- Original duration: 575 days
- Addl days: 60 change, 0 rain
- Final completion: 03/23/18
- Time elapsed: 77%

### CONTRACT VALUE

- Original contract: \$ 45,583,750
- Suppl budget: \$ 500,000
- Change orders: \$ 246,608
- Current contract: \$ 45,830,358
- Actual cost: \$ 36,457,875
- Percent spent: 80%

## Kings River Pipeline (KRP)



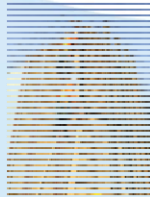
**Cost Index, CPI =**  
Earned/Actual = 1.0  
**Sched Index, SPI =**  
Earned/Planned = 1.0

- Contractor's recent progress has been good. Has recovered time in relation to previously anticipated delay and in relation to original plan.
- Working with contractor to assure completion before contract deadline.

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Armstrong Ave paving modifications: ~ \$52k
- Unknown utilities: ~ \$200k
- Misc lost production claims: ~ \$150k
  - Out of sequence culvert crossings
  - Fancher Creek debris removal
- Addition of electrical enclosure: ~ \$50k

## Southeast Surface Water Treatment Facility



### OVERVIEW

- Conventional surface water treatment facility
- Initial capacity = 54 MGD, Re-rate to 80 MGD

### CONSTRUCTION SCHEDULE

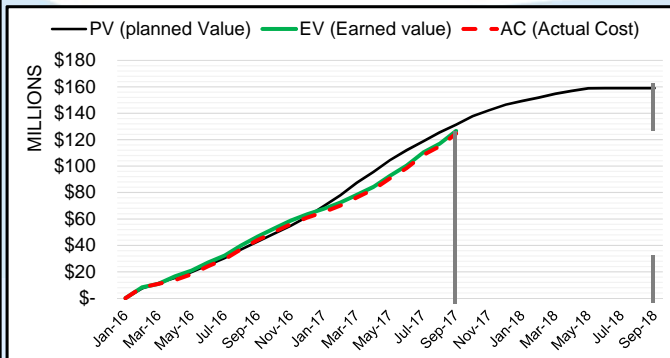
- Notice to proceed: 12/31/15
- Original duration: 1000 days
- Addl days: 0 change, 0 rain
- Final completion: 09/25/18
- Time elapsed: 67%

### CONTRACT VALUE

- Original contract: \$ 158,766,000
- Suppl budget: \$ 1,000,000
- Change orders: \$ 2,338,038
- Current contract: \$ 161,104,038
- Actual cost: \$ 124,683,372
- Percent spent: 77%



## Southeast Surface Water Treatment Facility



**Cost Index, CPI =**  
 $\text{Earned/Actual} = 1.0$   
**Sched Index, SPI =**  
 $\text{Earned/Planned} = 1.0$

■ *On schedule for completion as planned and before contract deadline.*

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 011
  - Mods to filter underdrain access: \$17k
  - Mods to Operations Building HVAC: \$6k
  - Elec mods to support security and metering flume : \$168k
  - Potable water backflow mods for fire pressure: \$118k
  - Treated water distribution system connection: \$19k
  - Utility conflicts: \$42k
- Security System Design and Installation: ~ \$1.0 M

## Regional Transmission Main – Segment A1 (RTM A1)



### OVERVIEW

- 5 miles of 54-60 inch diameter pipeline
- Portion of RTM system to convey treated water from SESWTF to City's distribution systems

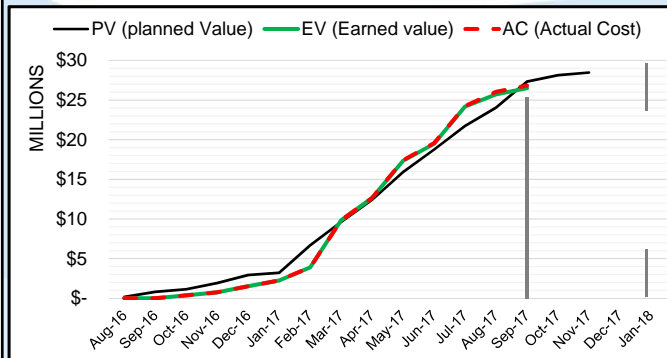
### CONSTRUCTION SCHEDULE

- Notice to proceed: 08/29/16
- Original duration: 500 days
- **Addl days: 0 change, 0 rain**
- Final completion: 01/10/18
- Time elapsed: 86%

### CONTRACT VALUE

- Original contract: \$ 28,471,884
- Suppl budget: \$ 300,000
- **Change orders: \$ 344,084**
- Current contract: \$ 28,815,968
- Actual cost: \$ 26,830,309
- Percent spent: 93%

## Regional Transmission Main – Segment A1 (RTM A1)



**Cost Index, CPI =**  
 $\text{Earned/Actual} = 1.0$   
**Sched Index, SPI =**  
 $\text{Earned/Planned} = 1.0$

- All main line pipe has been installed. Remaining construction work relates to coating interiors of pipeline joints and completion of above grade appurtenances.
- Contractor unable to meet originally planned early completion date.
- Currently anticipate on schedule completion in January 2018.

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 003
  - Utility and underground piping conflicts: \$84k
  - Credit for allowable welding mods: (\$96k)
- Utility and underground piping conflicts: ~ \$130k
- Addition of corrosion test stations: ~ \$35k
- Addition of air release valves: ~ \$45k

## Regional Transmission Main – Segment A2 (RTM A2)



### OVERVIEW

- 4 miles of 24-48 inch diameter pipeline
- Portion of RTM system to convey treated water from SESWTF to City's distribution systems

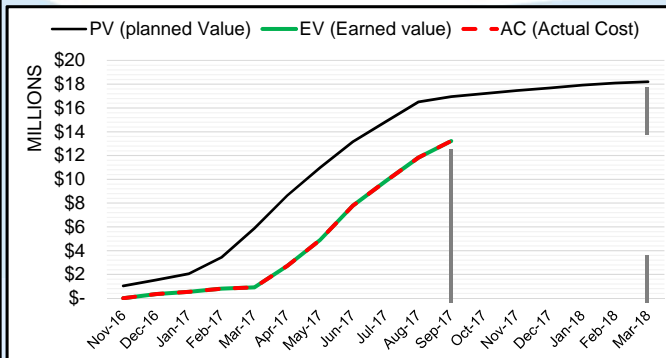
### CONSTRUCTION SCHEDULE

- Notice to proceed: 11/08/16
- Original duration: 500 days
- Addl days: 0 change, 0 rain
- Final completion: 03/22/18
- Time elapsed: 71%

### CONTRACT VALUE

- Original contract: \$ 18,204,180
- Suppl budget: \$ 300,000
- Change orders: \$ 165,994
- Current contract: \$ 18,370,174
- Actual cost: \$ 13,223,638
- Percent spent: 72%

## Regional Transmission Main – Segment A2 (RTM A2)



**Cost Index, CPI =**  
 $\text{Earned/Actual} = 1.0$   
**Sched Index, SPI =**  
 $\text{Earned/Planned} = 0.8$

- *Behind original plan. Contractor has maintained good progress toward schedule recovery.*
- *Working with contractor to assure completion before contract deadline.*
- *Work has included multiple crews to assure completion before contract deadline.*
- *Currently anticipate on schedule completion in March 2018.*

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- CCO 002
  - Roadway restoration and paving mods: \$116k
  - Utility and underground piping conflicts : \$54k
- Utility and underground piping conflicts : \$27k
- Pipeline modifications to accommodate changed testing and disinfection needs: \$65k

## Recycled Water Transmission Main – Segment SW1B



### OVERVIEW

- 3.9 miles of 10-48 inch diameter pipeline
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

### CONSTRUCTION SCHEDULE

- Notice to proceed: 02/01/16
- Original duration: 255 days
- **Addl days: 0 change, 0 rain**
- Final completion: 10/12/16
- Time elapsed: 250%

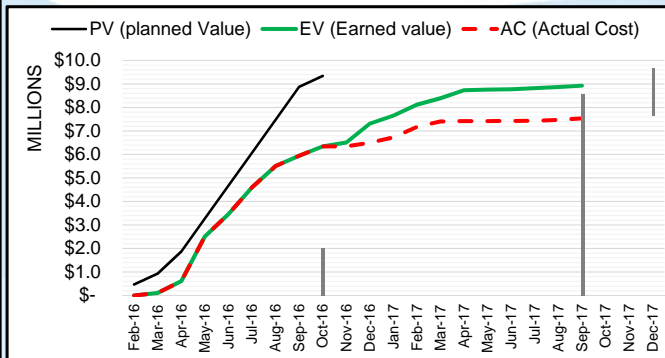
### CONTRACT VALUE

- Original contract: \$ 9,341,491
- Suppl budget: \$ 300,000
- **Change orders: \$ 0**
- Current contract: \$ 9,341,491
- Actual cost: \$ 7,536,739\*\*
- Percent spent: 81%\*\*

\*\* Not including \$1,335,000 LDs



## Recycled Water Transmission Main – Segment SW1B



**Cost Index, CPI =**  
 $\text{Earned/Actual} = 1.0$   
**Sched Index, SPI =**  
 $\text{Earned/Planned} = \text{N/A}$

- *Behind schedule.*
- *Recently successfully completed pipeline pressure testing.*
- *Remaining work includes misc. paving and civil work, and installation of fiber optic conduits.*
- *Coordinating with user connection projects for delivery of recycled water to additional users.*
- *Anticipate final completion in December.*

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Claim for cost and schedule delays:
  - Sequencing complexities related to traffic control and permitting
  - FID crossing complexities related to irrigation season coord & change
  - Inclement weather

## Recycled Water Transmission Main – Segment SW1C



### OVERVIEW

- 1.6 miles of 24-36 inch diameter pipeline
- Portion of RWTM system to convey recycled water from FCRWRF to irrigation users

### CONSTRUCTION SCHEDULE

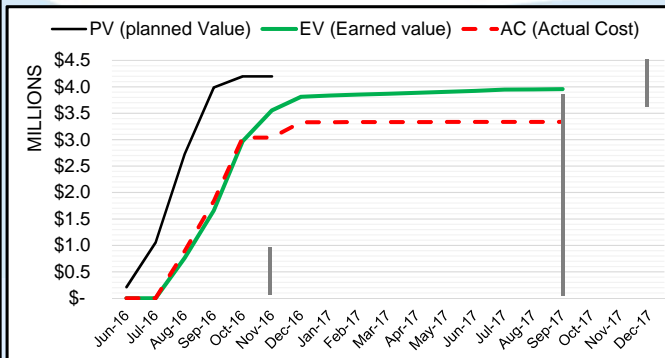
- Notice to proceed: 05/31/16
- Original duration: 155 days
- *Addl days: 0 change, 0 rain*
- Final completion: 11/01/16
- Time elapsed: 334%

### CONTRACT VALUE

- Original contract: \$ 4,198,175
- Suppl budget: \$ 155,000
- *Change orders: \$ 269,718*
- Current contract: \$ 4,467,893
- Actual cost: \$ 3,338,277\*\*
- Percent spent: 75%\*\*

\*\* Not including \$831,963 LDs

## Recycled Water Transmission Main – Segment SW1C



**Cost Index, CPI =**  
 $\text{Earned/Actual} = 1.0$   
**Sched Index, SPI =**  
 $\text{Earned/Planned} = \text{N/A}$

- *Behind schedule.*
- *Recently successfully completed pipeline pressure testing.*
- *Remaining work includes misc. punch list items.*
- *Coordinating with user connection projects for delivery of recycled water to additional users.*
- *Anticipate final completion in December.*

### NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Claim for cost and schedule delays :
  - Sequencing complexities related to traffic control and permitting
  - FID crossing complexities related to irrigation season coord & change
  - Inclement weather



## Questions

**[www.RechargeFresno.com](http://www.RechargeFresno.com)**  
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