



Large Construction Contracts Update ***DPU, Water Division***

Capital Project Oversight Board Meeting

February 13, 2017

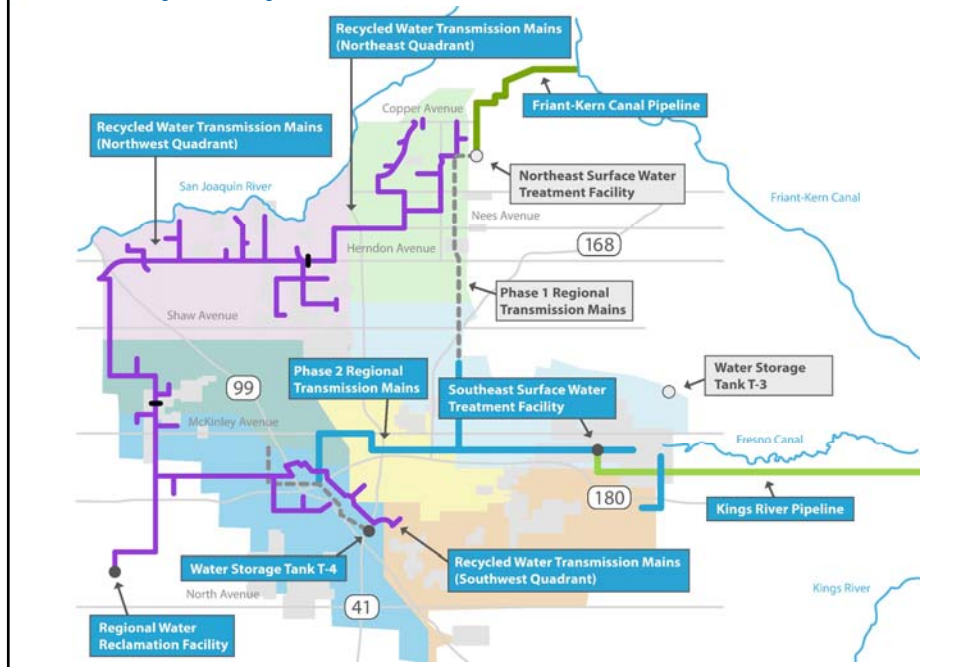
Discussion Topics



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



DPU Major Projects



Ongoing and Near-Term Construction Contracts



Construction Contract	Bid	Award	NTP	Substan. Compl.
Friant-Kern Canal Pipeline	✓	✓	✓ May '16	Aug '17
Kings River Pipeline	✓	✓	✓ Jun '16	Dec '17
Southeast Surface Water Trmt Facility	✓	✓	✓ Dec '15	Jun '18
RTM Segment A1	✓	✓	✓ Aug '16	Mar '18
RTM Segment A2	✓	✓	✓ Nov '16	Feb '18
RTM Segment B	Mar '17	May '17	Jul '17	Dec '17
RTM Segment C	Apr '17	Jun '17	Aug '17	May '18
RWTM SW Quad Segment SW1A	✓	✓	✓ Oct '15	✓ Aug '16
RWTM SW Quad Segment SW1B	✓	✓	✓ Feb '16	Mar '17
RWTM SW Quad Segment SW1C	✓	✓	✓ May '16	Mar '17
RWTM SW Quad Segments SW1D/4	TBD	TBD	TBD	TBD

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

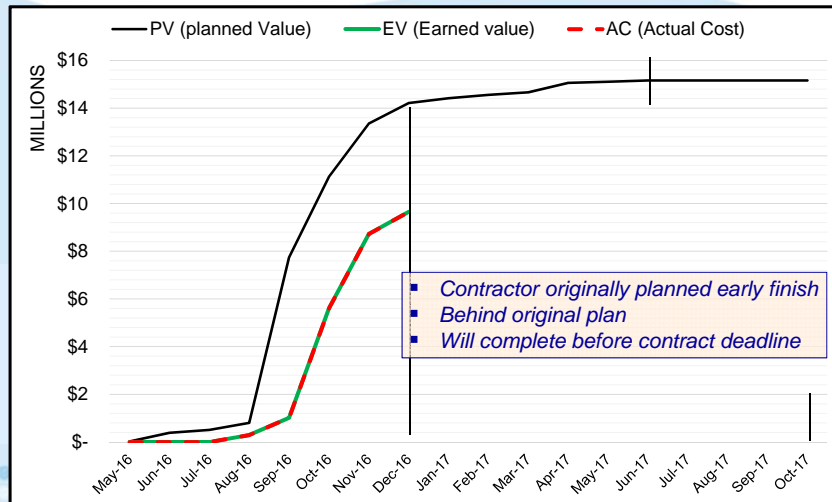
SCHEDULE

- Notice to proceed: 05/31/16
- Original duration: 500 days
- *Addl days: 0 change, 0 rain*
- Final completion: 10/12/17
- Time elapsed: 49%

CONTRACT VALUE

- Original contract: \$ 15,157,862
- Suppl budget: \$ 300,000
- *Change orders: \$ -(70, 274)*
- Current contract: \$ 15,087,588
- Actual cost: \$ 9,653,952
- Percent spent: 64%

Friant Kern Canal Pipeline (FKCP)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.7

Friant Kern Canal Pipeline (FKCP)



OVERVIEW

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

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- NESWTF connection piping redesign (RFP 009): ~ \$200K
- Foothill Lane (private road) reconstruction and repair: ~ \$190-330k
 - Weather-related temporary road maintenance (WCD 002): ~ \$40-70k
 - Weather-related permanent road reconstruction impacts: ~ \$35-50k
 - Permanent road design modifications (RFP 010): ~ \$70-120
 - Construction damage to other portions of existing private roads: ~\$45-90k

Kings River Pipeline (KRP)



OVERVIEW

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

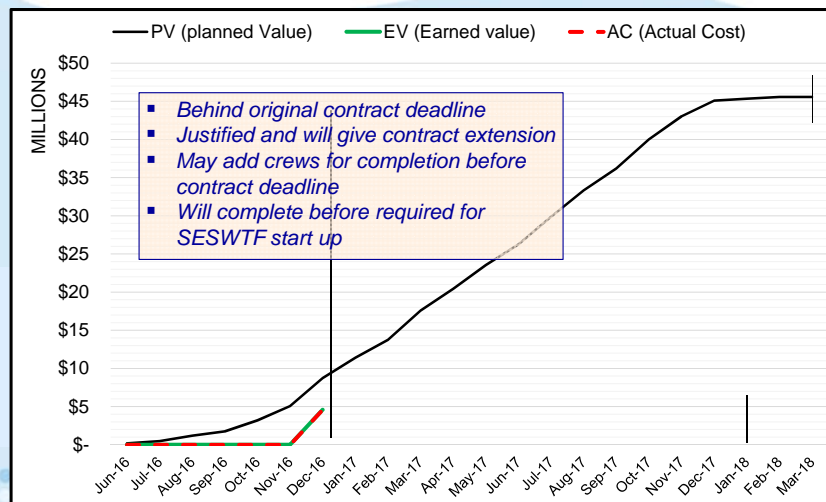
SCHEDULE

- Notice to proceed: 06/27/16
- Original duration: 575 days
- **Addl days: 0 change, 0 rain**
- Final completion: 01/22/18
- Time elapsed: 38%

CONTRACT VALUE

- Original contract: \$ 45,083,750
- Suppl budget: \$ 500,000
- **Change orders: \$ 0**
- Current contract: \$ 45,083,750
- Actual cost: \$ 4,592,164
- Percent spent: 10%

Kings River Pipeline (KRP)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.5

Kings River Pipeline (KRP)



OVERVIEW

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

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Change Order 001 - Paleontological Monitoring: \$300K allowance
- Change Order 002 - Contract Time Extension: 60 days

Southeast Surface Water Treatment Facility



OVERVIEW

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

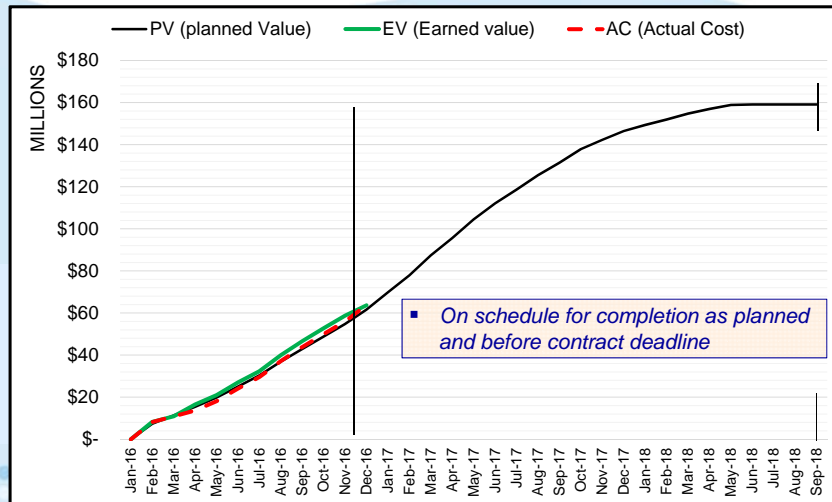
SCHEDULE

- Notice to proceed: 12/31/15
- Original duration: 1000 days
- *Addl days: 0 change, 0 rain*
- Final completion: 09/25/18
- Time elapsed: 40%

CONTRACT VALUE

- Original contract: \$ 158,766,000
- Suppl budget: \$ 1,000,000
- Change orders: \$ 1,022,778
- Current contract: \$ 159,788,778
- Actual cost: \$ 63,849,380
- Percent spent: 40%

Southeast Surface Water Treatment Facility



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 1.0

Southeast Surface Water Treatment Facility



OVERVIEW

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

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Change Order 007: \$103,837
 - Ozone and filtration structure wall modifications
 - Ozone system vent piping modifications
 - Miscellaneous piping design modifications in Floridora Ave
 - Temporary facility improvements (networking, parking, fire, security)
- Advanced Corrosion Control Chem Feed (misc RFPs): ~ \$350-500k
- Off-site Street Lighting Modifications (RFP 033): ~ \$56k
- Door Modifications for Security Hardware (RFP 038): ~ \$50k

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

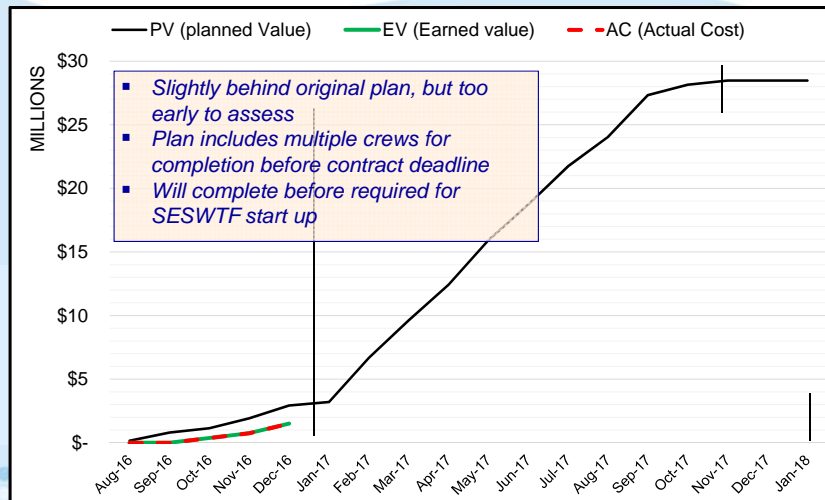
SCHEDULE

- Notice to proceed: 08/29/16
- Original duration: 500 days
- **Addl days: 0 change, 0 rain**
- Final completion: 01/10/18
- Time elapsed: 31%

CONTRACT VALUE

- Original contract: \$ 28,471,884
- Suppl budget: \$ 300,000
- **Change orders: \$ 0**
- Current contract: \$ 28,471,884
- Actual cost: \$ 1,502,701
- Percent spent: 5%

Regional Transmission Main – Segment A1 (RTM A1)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.5

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

NOTABLE PENDING/UPCOMING CHANGE ITEMS:

- Paleontological Monitoring (RFP 003): \$30K
 - Close existing work with contractor.
 - Engage paleontologist through separate consulting contract to support construction of all RTM pipeline segments

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

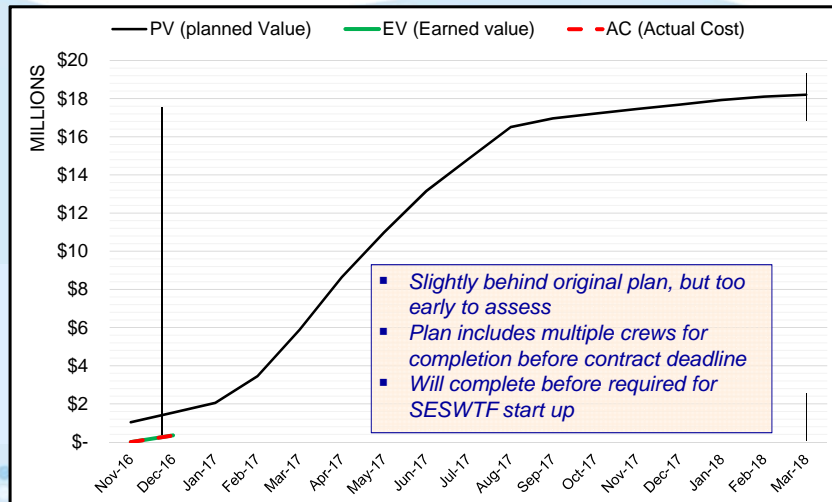
SCHEDULE

- Notice to proceed: 11/08/16
- Original duration: 500 days
- *Addl days: 0 change, 0 rain*
- Final completion: 03/22/18
- Time elapsed: 17%

CONTRACT VALUE

- Original contract: \$ 18,204,180
- Suppl budget: \$ 300,000
- *Change orders: \$ 0*
- Current contract: \$ 18,204,180
- Actual cost: \$ 348,028
- Percent spent: 5%

Regional Transmission Main – Segment A2 (RTM A2)



PERFORMANCE INDICES (Favorable is > 1.0, Unfavorable is < 1.0)

Cost Performance Index, CPI = Earned Value / Actual Cost = 1.0

Schedule Performance Index, SPI = Earned Value / Planned Value = 0.2

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

NOTABLE PENDING/UPCOMING CHANGE ITEMS

- Paleontological Monitoring:
 - Engage paleontologist through separate consulting contract to support construction of all RTM pipeline segments

Questions

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