

Handout

Agenda Item 6A3

Date December 19, 2019

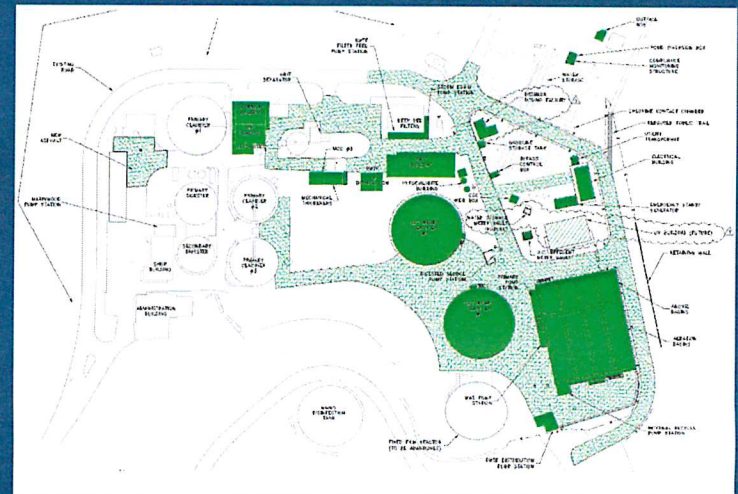


SECONDARY TREATMENT PLANT UPGRADE & RECYCLED WATER EXPANSION STATUS

BOARD

MEETING

DATE: 12/19/2019



CONTRACT COST SUMMARY

- Project Construction Cost:

Base Bid	\$ 46,426,454
UV Alternative	\$ 2,196,485
Subtotal	\$ 48,622,939
Change Orders (1 to 14 w/o UV)	\$ 901,625
Credit for Removal of UV Alternative	-\$ 2,196,485
TOTAL	\$ 47,328,079

CONTRACT COST SUMMARY

- Potential Change Orders (PCOs):

PCOs to Date	103
PCOs Resolved to COs	56 (\$901,625)
Unresolved PCOs	47
Estimated Amount of Disputed/Unresolved PCOs - including \$225,000 potholing allowance.	\$778,006
Contract Duration (Calendar Days)	1,162 (Original: 1,060)
Delays associated with PG&E (Calendar Days)	102
Change Order Extension (Calendar Days)	0
Adjusted Contract End Date	3/28/2022
Elapsed Days	323 (28%)
Invoiced to Date (% of Approved Contract Amount, including CCOs)	\$13,032,451.97 (26%)

CONTINGENCY STATUS

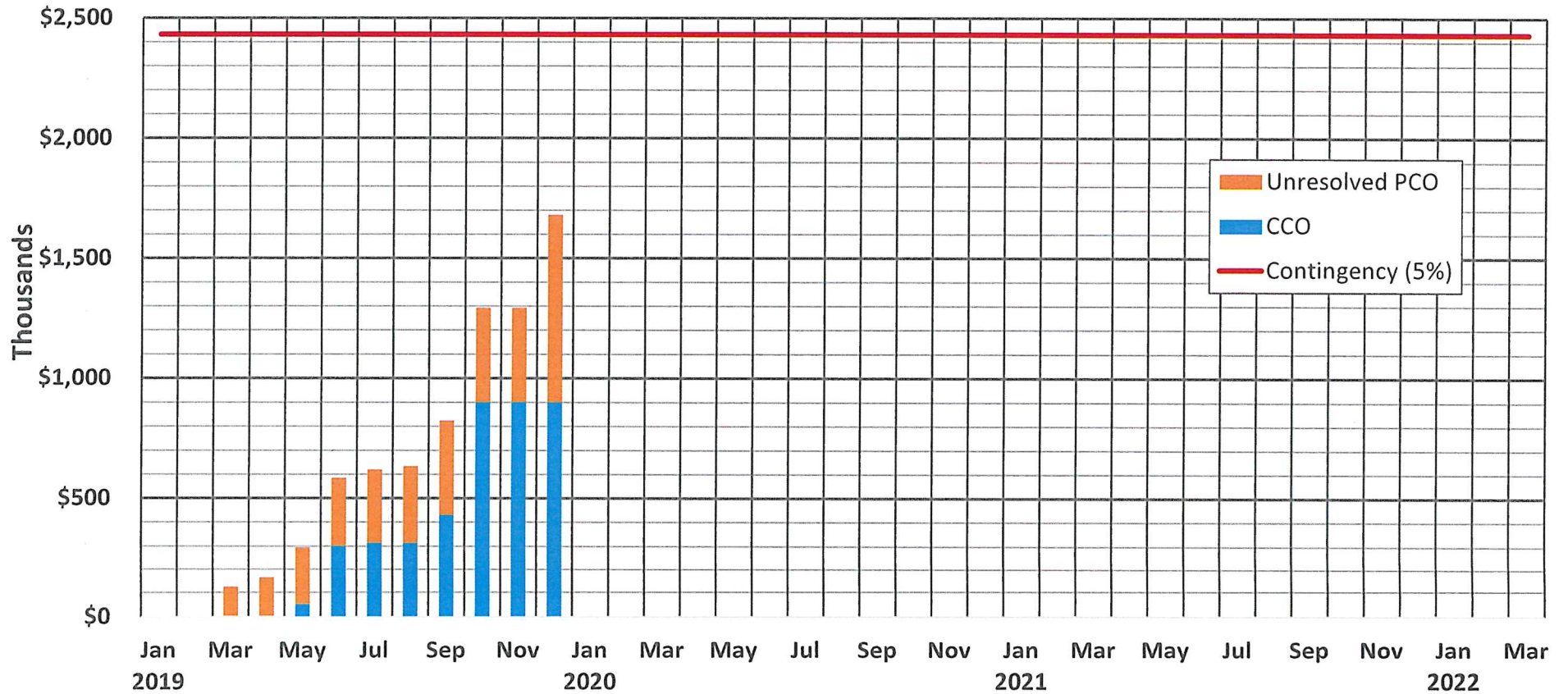
- Project Change Order Allowance/Contingency:

	Cost
5% Contingency Authorized by the Board (11/15/2018)	\$ 2,430,000 (100%)
Approved Change Orders (1 to 14 w/o UV)	\$ 901,625 (37%)
Remaining Contingency	\$ 1,528,375 (63%)
<i>Disputed PCOs</i>	<i>\$ 778,006 (32%)</i>
<i>Disputed PCOs plus Approved CCOs</i>	<i>\$ 1,679,631 (69%)</i>
<i>Remaining Contingency less Disputed PCOs</i>	<i>\$ 750,369 (31%)</i>

- Future item to increase contingency to 10% will be presented to the Board for approval.

CONTINGENCY STATUS

■ Change Order Cumulative Cost:



PG&E RELOCATION COST

	Cost
Phase 1 Design Fees (Paid to PG&E)	\$ 60,874
Phase 2 Design Fees (Paid to PG&E)	\$ 89,028
Salvage Credit from PG&E	TBD
Total Design Cost	\$ 149,902
*Phase 1 Construction (CCO to MSC)	\$ 102,217
*Phase 2 Construction (Future CCO to MSC)	\$ 250,000 (est.)
Board Approved Cost Allowance for Phase 1 (12/13/2018)	\$ 200,000
Cost Allowance for Phase 2 (To Be Approved)	\$ 300,000
Critical Path: ~139 days of potential delay	TBD

* - Note: Construct as change orders for schedule benefit, not anticipated to be paid out of contingency at time of contract award.

ENGINEERING & CONSTRUCTION MANAGEMENT

	Contract Amount
AQUA Engineering (Design and Construction Engineers)	\$ 3,548,003
ArcSine Engineering (Electrical Peer Review + SCADA)	\$ 1,040,713
Brown & Caldwell (Treatment Process - Peer Review)	\$ 560,279
CPMC (Project Scheduling and Cost Estimating)	\$ 223,200
DAC & Associates (Geotechnical Engineer)	\$ 271,760
Kennedy Jenks (Construction Manager)	\$ 3,715,820
Kleinfelder (Materials Testing)	\$ 221,247
Miller Pacific Engineering Group (Interim Geotechnical Engineer)	\$ 15,000
Riedinger Consulting (Schedule Review Support)	\$ 15,000
MWH Constructors (Biddability & Constructability Review Construction Manager) – Original: \$5,503,812	\$ 849,804*
TOTAL	\$ 10,460,826

* - Final Cost – Contract cancelled.

CONTRACT COST SUMMARY

- Overall Project Cost to Date:

Construction	\$ 49,524,564
Engineering & CM	\$ 10,445,826
PG&E	\$ 500,000
SUBTOTAL	\$ 60,470,390
Approved CCOs	\$ 901,625
Credit for Removal of UV Alternative	-\$ 2,196,485
Cost Associated with Removal of UV	\$ 750,000 (est.)
TOTAL	\$ 59,925,530

ACCOMPLISHMENTS / COMPLETED TASKS: ELECTRICAL BUILDING ROOF



ONGOING / COMPLETED TASKS: WAS MECHANICAL THICKENER



ONGOING / COMPLETED TASKS: RECYCLED WATER FEED PUMPS



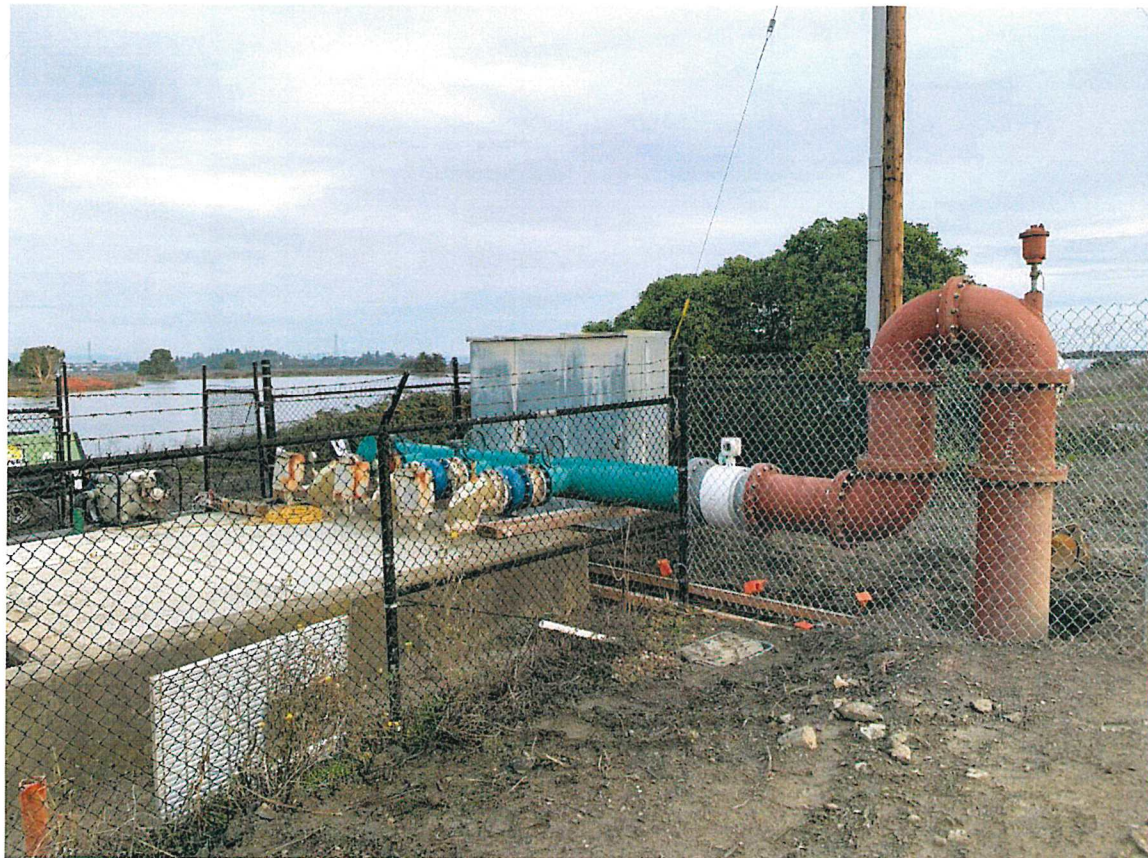
ONGOING / COMPLETED TASKS: SLUDGE THICKENER PIPING



ONGOING / COMPLETED TASKS: AERATION/ANOXIC BASINS



ONGOING / COMPLETED TASKS: POND RETURN PUMP STATION



ONGOING / COMPLETED TASKS: SUPERNATANT PUMP STATION



PLANNED TASKS / NEXT STEPS / TO DOS

- Finish construction of the Electrical Building, Aeration Basins, Anoxic Basins, Primary Pump Station, WAS Pump Station, Mechanical Thickener, and other Phase I milestones.
- Obtain PG&E approval for Phase 2 Power Relocation.
- Obtain PG&E power line easement from Marin County
- Continue meeting with Marin County staff to address bay trail, golf course, and encroachment issues.

UNRESOLVED ISSUES

- Slow Response from PG&E for Phase 2 Work
- PG&E Phase 2c Easement from State Parks/Marin County
- UV Deletion Cost from MSC
- The overall STPURWE project is 85 days behind schedule
- Title 22 Recycled Water for MMWD - The Recycled Water Treatment Facility component is 90 days behind schedule.
- USBR Grant Deadline – 90 days behind schedule
- Scheduled Process Changes

QUESTIONS?

