

Handout

6B

Agenda Item

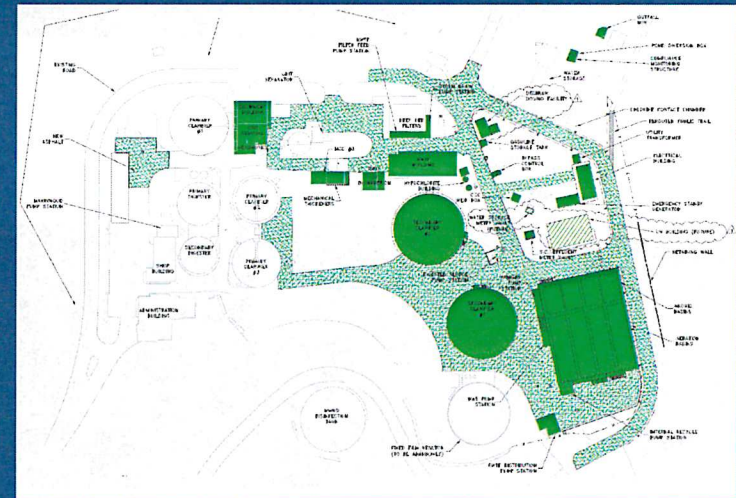
Date September 5, 2019



SECONDARY TREATMENT PLANT UPGRADE & RECYCLED WATER EXPANSION STATUS

BOARD MEETING

DATE: 9/5/2019



CONTRACT COST SUMMARY

- Project Construction Cost:

Base Bid	\$ 46,426,454
UV Alternative	\$ 2,196,485
Subtotal	\$ 48,622,939
Change Orders (1-7)	\$ 388,084
Credit for Removal of UV Alternative	TBD
TOTAL	\$ 49,011,023

CONTRACT COST SUMMARY

- Change Orders:

	Cost
Change Orders 1 - 4 (Reported on 5/21/2019 Update)	\$ 303,296
Change Orders 5 (A – E): Lighting Fixture Upgrade; Add/Delete Valves	\$ 12,521
Change Orders 6 (A – E): Wood Box Inspection; Descanso FM ARV; Cone Penetration Test for Caissons; Pond Return Pump Station Piping, Valves and Slide Gate	\$ 34,290
Change Order 7 – Internal Recycle Pump Station Grade Beam and Caissons	\$ 37,977
TOTAL (15 Items)	\$ 388,084

CONTRACT COST SUMMARY

- Potential Change Orders (PCOs):

PCOs to Date	72
PCOs Resolved to COs	15
Outstanding PCOs	57
Total Amount Outstanding PCOs	\$775,040

Number of RFIs to Date	148
Number of Submittals to Date	207
Contract Duration (Calendar Days)	1060
Days Into Construction	225 (21%)

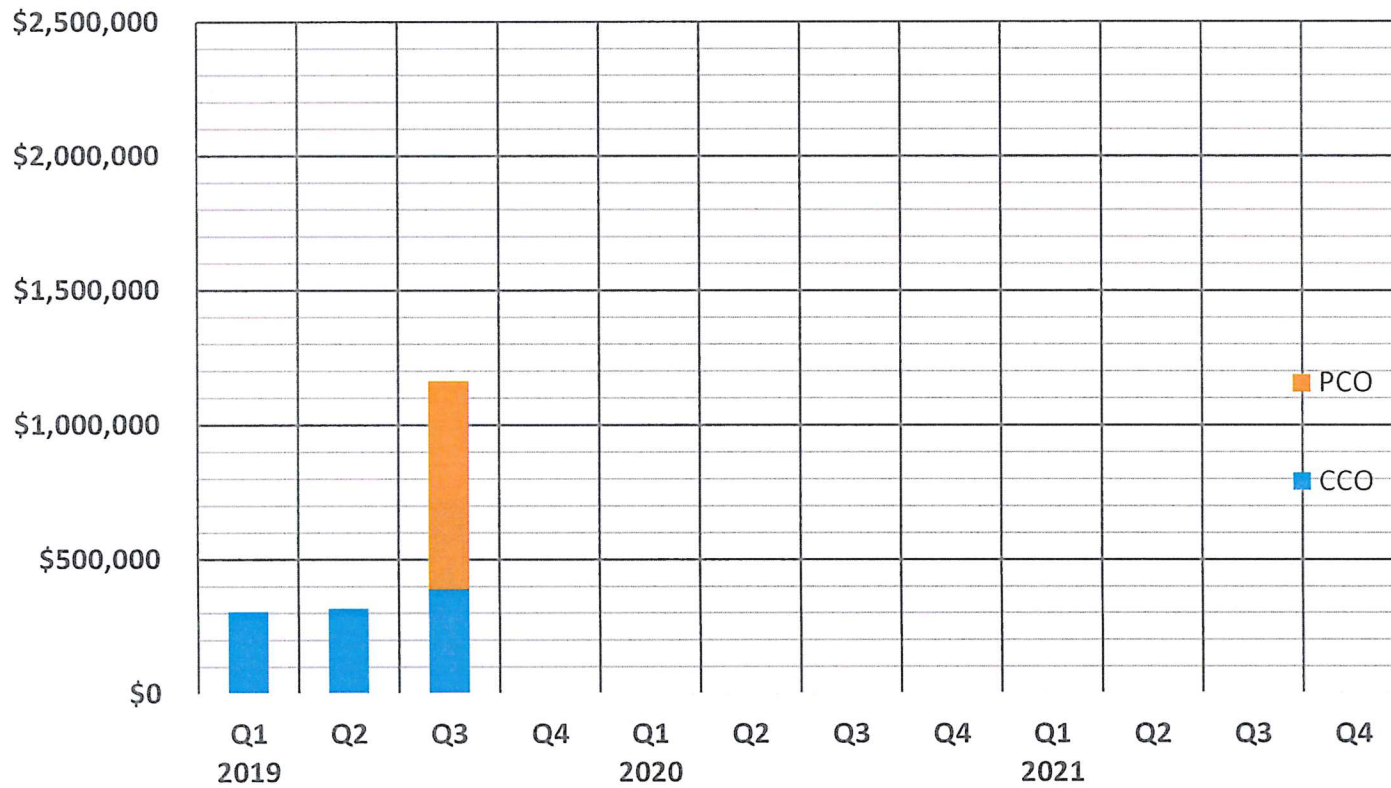
CONTRACT COST SUMMARY

- Project Change Order Allowance/Contingency:

	Cost
5% Contingency Authorized by the Board (11/15/2018)	\$ 2,430,000 (100%)
Approved Change Orders (1-7)	\$ 388,084 (16%)
Remaining Contingency	\$ 2,041,916 (84%)
<i>Outstanding PCOs</i>	<i>\$ 775,040 (32%)</i>
<i>Balance</i>	<i>\$ 1,266,876 (52%)</i>

CONTRACT COST SUMMARY

- Project Change Order Allowance/Contingency Status:



CONTRACT COST SUMMARY

- PG&E Relocation Allowance/Contingency:

	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 (PCO to MSC)	\$ 102,217
Phase 2 Construction (Future CO to MSC)	\$ 250,000
Approved Contingency for Phase 1 (12/13/2018)	\$ 200,000
Contingency for Phase 2 (To Be Approved)	\$ 300,000
Critical Path: ~94 days of potential delay	TBD

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
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
MWH Constructors (Construction Manager) – Original: \$5,503,812	\$ ~1,500,000
TOTAL	\$ ~10,872,822

CONTRACT COST SUMMARY

- Overall Project Cost to Date:

Construction	\$ 49,011,023
Engineering & CM	\$ 10,872,822
PG&E	\$ 500,000
SUBTOTAL	\$ 60,383,845
5% Contingency Balance	\$ 2,041,916
TOTAL	\$ 62,425,761

ACCOMPLISHMENTS / COMPLETED TASKS: PG&E PHASE I UNDERGROUNDING

- PG&E Crews at the jobsite



ACCOMPLISHMENTS / COMPLETED TASKS: CAISSONS INSTALLATION

- Malcolm Drilling



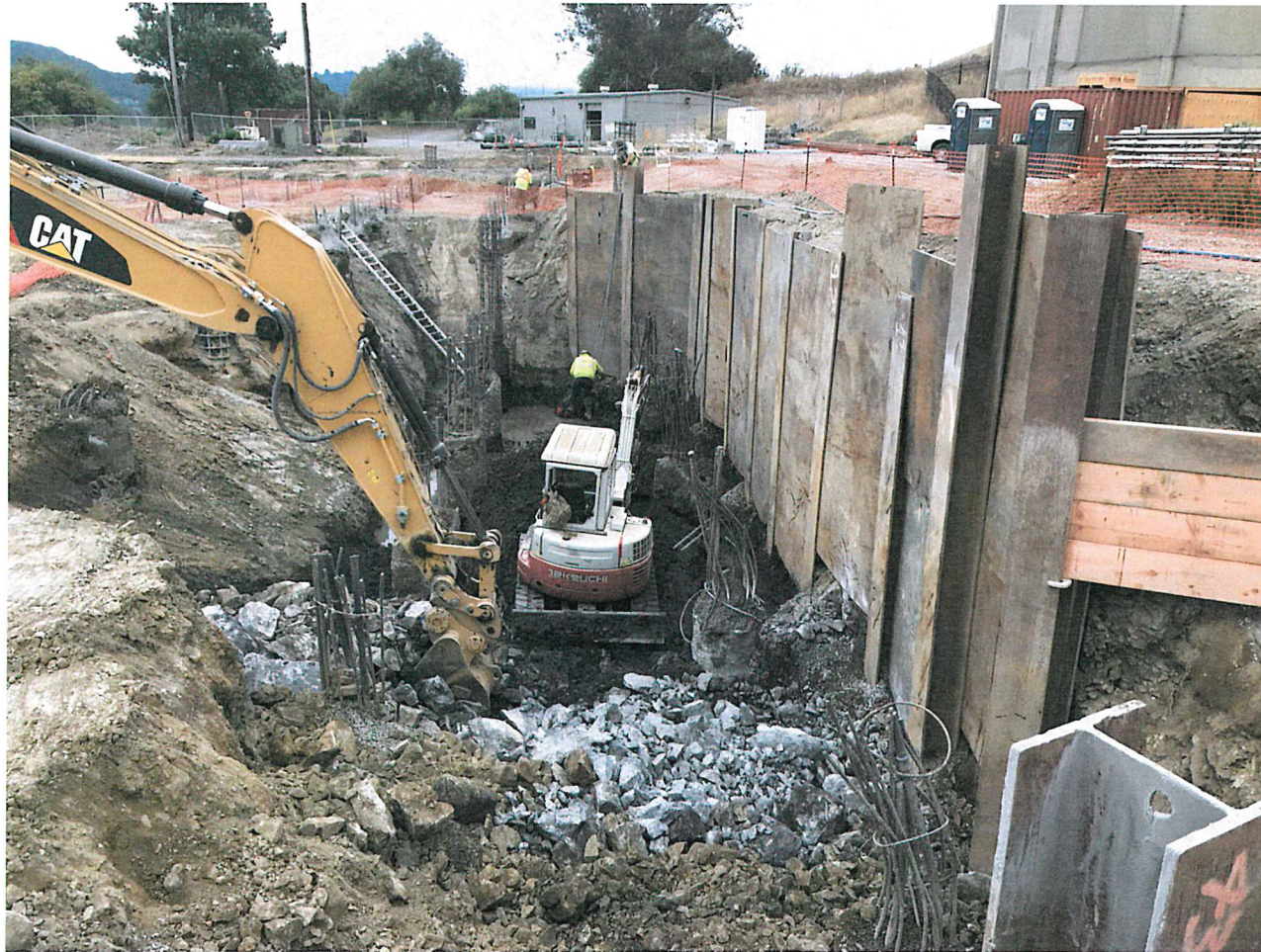
ACCOMPLISHMENTS / COMPLETED TASKS: ANOXIC AND AERATION BASINS

- Grade Beam Rebar Ready for Installation



ACCOMPLISHMENTS / COMPLETED TASKS: PRIMARY PUMP STATION

- Shoring Installation and Rock Excavation



ACCOMPLISHMENTS / COMPLETED TASKS: PRIMARY PUMP STATION

- Foundation subgrade stabilization



ACCOMPLISHMENTS / COMPLETED TASKS: ELECTRICAL BUILDING

- Rebar Installation



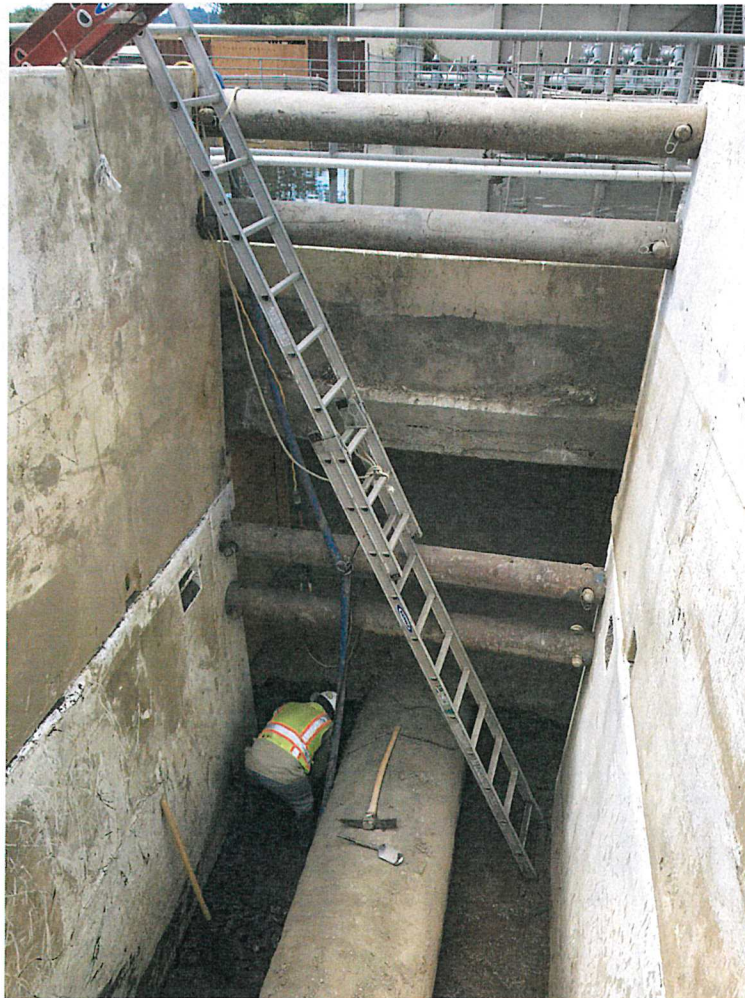
ACCOMPLISHMENTS / COMPLETED TASKS: BYPASS CONTROL BOX

- Rebar Installation



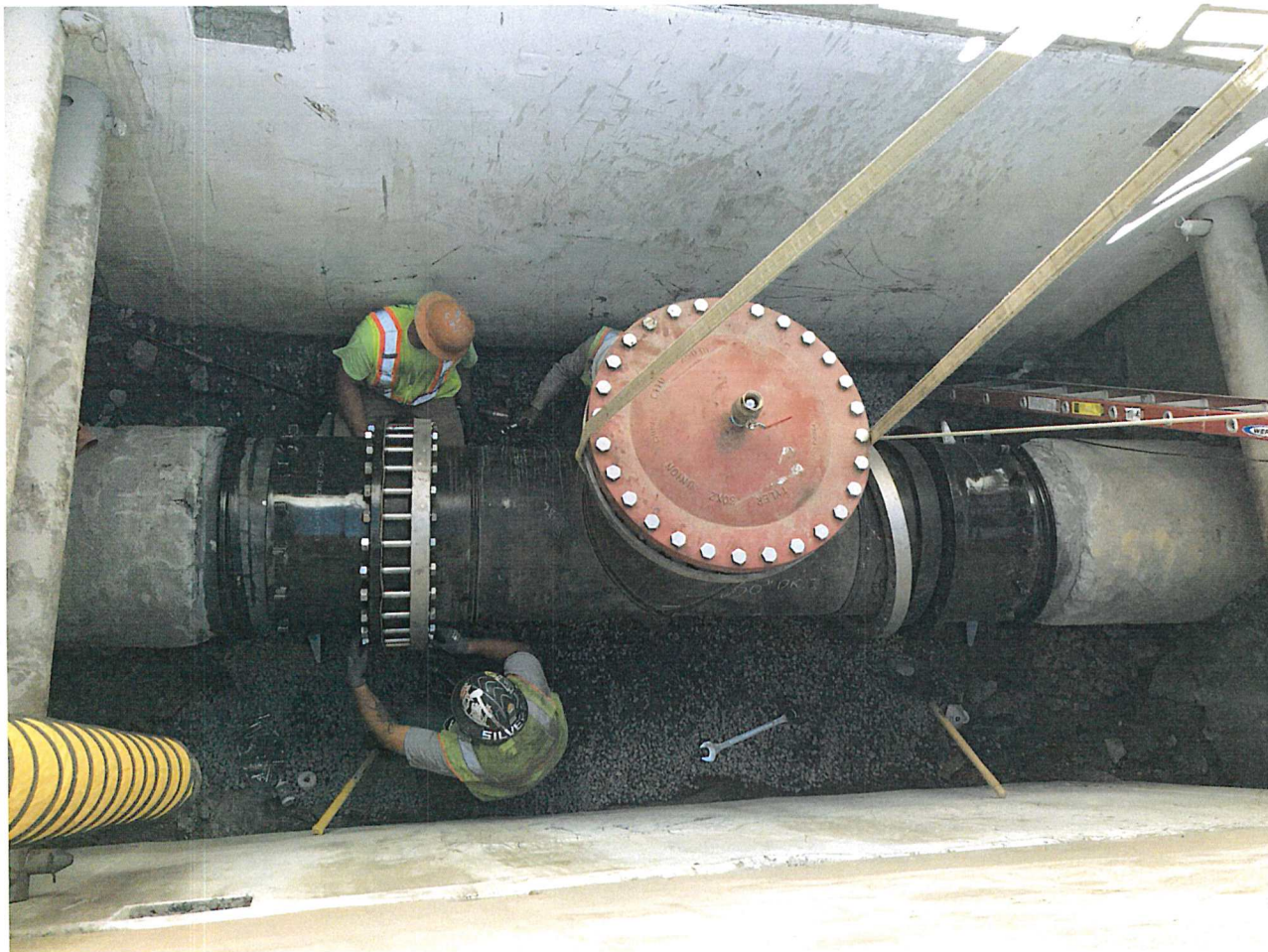
ACCOMPLISHMENTS / COMPLETED TASKS: SECONDARY CLARIFIER TEMPORARY WORK

- 30" Tee Installation



ACCOMPLISHMENTS / COMPLETED TASKS: SECONDARY CLARIFIER TEMPORARY WORK

- 30" Tee Installation



ACCOMPLISHMENTS / COMPLETED TASKS: SECONDARY CLARIFIER TEMPORARY WORK

- Cleaning Secondary Clarifier



ACCOMPLISHMENTS / COMPLETED TASKS: SECONDARY CLARIFIER TEMPORARY WORK

- Secondary Clarifier Bottom



PLANNED TASKS / NEXT STEPS / TO DOS

- Finish construction of the Electrical Building.
- Pour concrete slabs for the Anoxic and Aeration Basins, Primary Pump Station, and WAS Pump Station.
- Install Secondary Clarifier temporary piping.
- Pour concrete slab for Mechanical Thickener
- Prepare for PG&E Phase 2 Undergrounding.

RISKS & ISSUES

- PG&E Phase 2c Easement from State Parks/Marin County
- Slow Response from PG&E for Phase 2 Work
- UV Deletion Credit from MSC
- Caisson Installation Credit from Malcolm/MSC
- Scheduled Process Changes
- USBR Grant Deadline
- Title 22 Recycled Water for MMWD

QUESTIONS?

