



**SANITARY DISTRICT NO. 5 OF MARIN COUNTY  
2001 Paradise Drive  
Tiburon, California 94920**

**AGENDA**

**Main Plant Rehabilitation Oversight Committee Special Meeting  
Tuesday, February 4, 2014, 4:00 p.m.**

- I. Roll Call
- II. Public Comments
- III. New Business
  - a. Main Plant Rehabilitation (MPR) Project Summary
  - b. MPR Project Decision/Action Item Log
  - c. Request for Information Log (Not Included)
  - d. Design Clarification Log (Not Included)
  - e. Submittal Log (Not Included)
  - f. Issue Log (Not Included)
  - g. Potential Change Order Log
  - h. Construction Budget Status and Approved Change Order Log
  - i. Application for Payment No. 20 from Auburn Constructors, INC. for MPR project (12/25/13 to 1/24/14)
  - j. Progress billing from Carollo Engineers for MPR Project (December 2013)
  - k. Dan Cortinovis Invoice for Operation Assistance (To be added)
  - l. Substantial and Final Completion Certification and Closeout.
- IV. Adjournment

This Committee may be attended by Board Members who do not serve on this committee. In the event that a quorum of the entire Board is present, this Committee shall act as a Committee of the Whole. In either case, any item acted upon by the Committee or the Committee of the Whole will require consideration and action by the full Board of Directors as a prerequisite to its legal enactment.

**Accessible public meetings:** Upon request, the District will provide written agenda materials in appropriate alternate formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individual with disabilities to participate in public meetings. Requests are to be submitted in writing to the Executive Assistant at Post Office Box 227, Tiburon, CA 94920 or rdohrmann@sani5.org at least two days prior to the meeting.

## Sanitary District No. 5 of Marin County

### Main Plant Rehabilitation Project

**January 2014**

The following Items were completed / underway by the Contractor this month (area: activity):

1. Yard Piping: No work.
2. Headworks: Completed sampler installation and programming.
3. Dry Weather Primary (DWP): No work.
4. Wet Weather Primary (WWP): No work.
5. Aeration Basin/ Blowers: No work.
6. Chemical Room: No work.
7. Secondary Clarifier: No work.
8. Chlorine Contact basin: Completed sampler installation and programming. Completed SASM replacement sample pump installation and startup.
9. Thickener: No work.
10. Anaerobic Digestion: No work.
- Miscellaneous/ Other: Contractor completed remaining punch list items and several T&M cleanup items.
11. Electrical/Instrumentation: Remote pump-station integration concept was finalized with Contractor and instrumentation subcontractor. Electrical shutdown to replace trip unit was completed. Communication wiring and signals for SASM dechlorination process were completed.
12. Start-up: Training and operator feedback on SCADA and PLC system was received in January. Punch lists were completed by Contractor on January 17, 2014, except for a few outstanding items.
13. Equipment Procurement: Equipment and material procurement was complete including submittal preparation, review, and approval. To Date contractor has submitted 205-first time submittals and 84 re-submittals. Carollo returned five submittals in November. Spare part inventory was finalized and provided to the District on January 22, 2014.
14. Contract Administration: Substantial Completion Notice was received from the Contractor on December 4, 2013 and a Final Completion Notice was received on January 15, 2014. Carollo prepared two Change Orders for District approval. Carollo provided on-site part time CM/RI inspector for 6 days in January 2014.

Date: January 31, 2014

## Potential Change Order Log

Main Plant Rehabilitation Project  
Sanitary District No. 5 of Marin County

PCO No.	Description	Reason	Refer.	Date Issued	Proposed	Approved	Approved CO#
					Cost \$	Cost \$	
1	Annular Seals	Engineer	DCM3	7/12/2012	\$13,289		
1	Revised Annular Seals			8/1/2012	\$10,406	\$10,406.00	CO#2
2	RAS/WAS Pipe	Owner	DCM4	7/13/2012	\$9,598		
2	Small credit for contract work.			7/16/2012	\$8,202	\$7,907.00	CO#3
3	WWP Wall Penetrations (12' WW)	Owner	DCM5	7/23/2012	-\$2,101		
3	Credit for contract work is based on bid, not actual cost.			7/26/2012	-\$4,024	-\$4,024.00	CO#3
4	Secondary Clarifier No. 2 Minor Repairs	Ch Con	DCM5	8/1/2012	\$12,354	\$12,354.00	CO#1
5	Additional Concrete Repair - DCM 6	Owner	DCM6	8/1/2012	\$10,373	\$10,373.00	CO#3
	Revised Concrete Repair - Cost Reduction Proposal (RFI12)	Cont		8/9/2012	-\$10,050	-\$10,050.00	CO#3
6	Delete Factory test	Cont	--	8/14/2012	-\$2,350	-\$2,350.00	CO#3
7	Digester Mix Column Credit	Cont	RFI13	8/16/2012	-\$1,030	-\$1,030.00	CO#3
8	Replace Chemical area wall	Ch Con	DCM 6	8/20/2012	\$8,317	\$8,317.00	CO#3
9	Replace Electrical Room Wall	Ch Cond	DCM 7	8/21/2012	\$9,013	\$9,013.00	CO#4
10	Secondary Digester Additional Sludge	Ch Cond	--	8/23/2012	\$18,660	\$18,660.00	CO#6
11	Addition of 2-4" AA valves	Owner	DCM 9	8/27/2012	\$16,586	\$16,586.00	CO#7
12	Additional DM&DR Piping Insulation	Engineer	DCM 11	8/27/2012	\$22,796		Hold
13	DM Piping Modifications	Owner	DCM12	8/30/2012	\$3,944	\$3,944.00	CO#5
14	DWP Flowmeter Valve Replacement	Owner	DCM13	8/30/2012	\$7,183	\$7,183.00	CO#5
15	Secondary Digester No. 2 Cover Repairs	Ch Cond	WCD1	9/12/2012	\$1,322	\$1,322	CO#8
16	SC#2 Scum Skimmer Repairs	Ch Cond	WCD5	10/2/2012	\$1,336	\$1,336	CO#8
17	Additional Concrete Repair	Ch Cond	WCD4	10/2/2012	\$3,873	\$3,873	CO#8
18	Delete Primary Digester Cleaning	Owner	DCM14	10/9/2012	-\$11,904	-\$11,904	CO#8
19	Removal of Buried Utilities	Ch Cond	WCD6	10/12/2012	\$4,874	\$4,874	CO#8
20	MCC-CF - Welding Receptacle	Owner	DC15	10/16/2012	\$4,166	\$4,166	CO#8
21	Relocation of SASM Comm Cabinet	Ch Cond	WCD2	10/22/2012	\$738	\$738	CO#8
23	Secondary Clarifier Rehab Proposal - Option A	Owner		11/6/2012	\$176,814	\$176,814	CO#9
24	Dry Weather Primary Clarifier Rehab Proposal	Owner		11/6/2012	\$96,217	\$96,217	CO#9
22	Rock Excavation	Cont	WCD7	11/2/2012	\$11,342	\$11,342	CO 11
25	BW Pipe Demolition	Owner	WCD 9	11/26/2012	\$3,681	\$3,681	CO#12
26	Plant Water Piping	Owner	DC17	11/26/2012	-\$3,630	-\$3,630	CO#12
27	DWP Scum Skimmers (Credit \$22,470 and Paint Cost \$18,067)	Cont	RFI24	11/26/2012	-\$22,470	-\$22,470	CO#12
28	WWP Scum Troughs	Cont		11/27/2012	\$28,013	\$28,013	CO#12
29	Contract Credit - Change Orders	Cont	***	11/27/2012	-\$1,468	-\$1,468	CO#12
30	Misc. Electrical Room MP Demo	Engineer	WCD10	11/27/2012	\$4,030	\$4,030	CO#12
31	Chemical room painting	Owner		12/13/2012	\$14,950	\$14,950	Allowance
32	Bisulfite Pump Accessories	Cont		12/11/2012	\$1,533	\$1,533	Void
33	Chemical Room Modifications	Owner		12/13/2012	\$14,977	\$14,977	CO#13
34	Plant Water Pipe Repair	Owner	***	12/27/2012	\$3,978	\$3,978	CO#12
35	WW Pump Check Valve Replacement	Owner	***	1/3/2013	\$28,589	\$28,589	CO#10
36	Compressor Relocation	Owner	WCD 16	1/14/2013	\$1,824	\$1,824	CO#14
37	Additional Demo Chemical Room	Engineer	***	1/15/2013	\$3,046	\$3,046	CO#14

Date: January 31, 2014

## Potential Change Order Log

Main Plant Rehabilitation Project  
Sanitary District No. 5 of Marin County

PCO No.	Description	Reason	Refer.	Date Issued	Proposed	Approved	Approved CO#
					Cost \$	Cost \$	
38	Repair Leaking Joint - CCB Structure at Chem Room	Engineer	WCD 14	1/15/2013	\$4,344	\$4,344	CO#14
39	Suction Valve Replacement Thickened Sludge Pump	Owner	***	1/21/2013	\$11,615	\$11,615	CO#15
40	Dry Weather Primary Skimmer Rehab	PCO 27		1/23/2013	\$3,365	\$3,365	CO#16
41	Dewatering Pump Piping Revision	Owner	DCM 27	1/24/2013	\$14,566	\$14,566	CO#17
42	Revised Construction Sequence Blower #2 and #3	Owner	WCD 15	1/31/2013	\$7,352	\$7,352	CO#16
43	Revised Office Floor Plan	Owner	DCM 26	2/1/2013	\$2,683	\$2,683	CO#18
44	Seal Water Rotameters	Engineer	DCM	2/5/2013	\$4,720	\$4,720	CO#18
45	Server Relocation	Owner	DCM 19	2/6/2013	\$10,747	\$10,747	CO# 20
46	Electrical for Electrical Room MP and WP HVAC	Engineer	DCM23	2/8/2013	\$38,126	\$38,126	Hold
47	Emergency Lighting Replacement	Owner	DCM 21	2/8/2013	\$68,422	\$68,422	Hold
47R	Emergency Lighting Replacement	Owner	DCM 21	2/8/2013	\$51,199	\$51,199	Hold
48	Screw Press 3W Piping (Stainless Steel)	Owner	WCD11	2/11/2013	\$8,087	\$8,087	CO#20
49	Eyewash Station Installation and Electrical	Engineer	DCM 22	2/11/2013	\$36,044	\$36,044	Hold
50	Main Switch Board Replacement	Contractor	DCM 25	2/27/2013	\$36,477	\$36,477	Revised
50R	Main Switch Board Replacement	Contractor	DCM 25	2/27/2013	\$34,401	\$34,401	CO#19
51	SASM Flowmeter transmitter relocation	Engineer	WCD	3/6/2013	\$4,569	\$4,569	CO#20
52	Additional Calibration columns	Owner	***	3/7/2013	\$1,588	\$1,588	CO#20
53	Deletion of the Ground Grid	Contractor		3/12/2013	-\$10,248	-\$10,248	CO#20
54	Deletion of AB Concrete Repairs	Owner		3/18/2013	-\$10,844	-\$10,844	CO#20
55	Relocation of Chem Room Lights	Engineer		3/19/2013	\$1,541	\$1,541	CO#20
56	Generator Termination Box	Cont		3/25/2013	\$1,319	\$1,319	CO#20
57	RAS Line Valve	Owner	DCM 32	3/29/2013	\$2,494	\$2,494	CO#20
58	Digester Piping Modifications	Owner	DCM31	4/1/2013	\$1,986	\$1,986	CO#20
59	Generator Control Wiring				VOID		
60	LCP-05-001 Modifications	Engineer	DCM 37	4/22/2013	\$3,338	\$3,338	CO#21
61	New Influent Flowmeters (Options a and B)	Owner	DCM 34	4/22/2013	\$14,335	\$14,335	CO#21
62	Deletion of the effluent flow meter	Owner	DCM 36	4/23/2013	-\$31,887	-\$31,887	CO#21
63	Relocate EF-06-520	Cont	Verbal	5/2/2013	\$2,691	\$2,691	CO#21
64	Chemical room exhaust duct relocation	Cont		5/6/2013	\$3,321	\$3,321	CO#22
65	Furnish LCP -07-500	Cont	DCM 38	5/9/2013	\$9,814	\$9,814	CO#22
66	Temporary WAS Polymer Injection	Owner	DCM 36	5/9/2013	\$7,488	\$7,488	CO#22
68	Additional Sampler Programming	Cont	RFI	5/9/2013	\$1,681	\$1,681	CO#22
69	Exterior Glass Replacement Allowance Credit	Owner		5/16/2013	-\$10,286	-\$10,286	CO#22
70	Deletin of Painting for chemical room PVC pipe	Owner	DCM 39	5/20/2013	-\$5,606	-\$5,606	CO#22
72	Deletion of roofing insulation	Cont	RFI 69	5/22/2013	-\$2,090	-\$2,090	CO#22
74	PVC Pipe Repair	Engineer	DCM23.1	5/31/2013	\$1,035	\$1,035	CO#22
	<b>CO 22 Subtotal</b>				<b>\$5,357</b>		
71	HMI Programming	Cont	Email	5/20/2013	\$18,228	\$18,228	CO#23
73	HVAC Power (Revised PCO 46 Original \$38,126)	Engineer	DCM23	5/28/2013	\$18,614	\$18,614	CO#24
75	RAS Sump Piping	Cont	DCM 46	6/11/2013	\$3,661	\$3,661	CO#25
76	Electrical Room MP Lighting upgrade	Eng	DCM 44	6/12/2013	\$2,373	\$2,373	CO#25
77	FIT 17-201 power	Eng	DCM 40	6/12/2013	\$1,855	\$1,855	CO#25

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PCO No.	Description	Reason	Refer.	Date Issued	Proposed	Approved	Approved CO#
					Cost \$	Cost \$	
78	Analyzer relocation and additional Turbidity Analyzer	Owner/ENG	DCM 41	6/17/2013	\$2,269	\$2,269	CO#25
81	Seal Pipes in RAS/WAS Sump	Cont	verbal	6/18/2013	\$1,067	\$1,067	CO#25
83	AB FA Duct	Owner	verbal	6/21/2013	\$4,591	\$4,591	CO#25
84	Stucco Repair/Water Proof Coating	Owner/ENG	verbal	6/19/2013	\$4,491	\$4,491	CO#25
	<b>CO 25 SUBTOTAL</b>				<b>\$20,307</b>	<b>\$20,307</b>	CO#25
79	First Floor Roof Rehabilitation	Cont	WCD20	6/13/2013	\$16,016	\$16,016	CO#26
80	Digester Mixing Pump Modifications	Owner	DCM 47	6/17/2013	\$18,541	\$18,541	CO#27
82	Office HVAC Unit	Cont	DCM 50	6/18/2013	\$5,109	\$5,109	CO#28
85	Boiler and Generator Room exhaust fan replacement	Eng		6/26/2013	\$7,047	\$7,041.00	CO#29
86	Chemical Room FRP struts (vs Galvanized)	Cont		7/2/2013	\$3,038	\$3,027.00	CO#29
87	Plant Water Piping Modifications	Cont/Eng		7/9/2013	\$5,650	\$5,650.00	CO#29
88	Drainback Valve Modifications	Owner	DCM 49	7/30/2013	\$5,792	\$5,792.00	CO#29
	Subtotal PCO No. 85-88				\$21,527	\$21,510	
96	DWP Coating Repairs	Cont	verbal	9/20/2013	\$8,268	\$8,268	CO#30
89	Influent sampler modifications	Engineer	RFI67	7/31/2013	\$4,126	\$4,126	CO#31
90	RDT Slab changes	Cont	DCM 51	8/1/2013	\$4,125	\$4,125	CO#31
91	Scrubber Transfer lines	Engineer	DCM 52	8/5/2013	\$3,685	\$3,685	CO#31
92	Thickenr paving / slab modifications	Cont	DCM 53	8/5/2013	\$4,525	\$4,525	CO#31
94	Scrubber conduit repair	Cont	verbal	9/9/2013	\$4,511	\$4,511	CO#31
95	DWP Scum skimmer mods	Cont	verbal	9/12/2013	\$7,567	\$7,567	CO#31
	Subtotal PCO No. 89-95					\$28,539	
98	Replacement pressure gauge	Engineer	verbal	9/3/2013	\$2,097	\$2,097	CO#32
99	Additional insulation - boiler room piping	Engineer	verbal	9/6/2013	\$1,600	\$1,600	CO#32
100	Influent Sampler room	Engineer	DCM 59	9/10/2013	\$21,315	\$21,315	CO#32
101	Current sensors - boiler room fans	Engineer	DCM 60	9/10/2013	\$7,314	\$7,314	CO#32
102	Install additional insulation and delete HW demo/Scrubber mods	Cont	verbal	9/17/2013	\$0	\$0	CO#32
103	Replacement Analyzers - Revised	Owner	DCM 62	9/25/2013	\$23,267	\$23,267	CO#32
						<b>\$55,593</b>	
57	RAS Line Valve	Owner	DCM 32	3/29/2013	\$2,494	<del>-\$2,494</del>	CO#20
43	Revised Office Floor Plan	Owner	DCM 26	2/1/2013	\$2,683	<del>-\$2,683</del>	CO#18
						<b>\$50,416</b>	
104	Office Deletion	Owner	DCM	10/1/2013	<del>-\$69,457</del>		CO#33
106	Electrical Room MP T&M	Cont	T&M	10/7/2013	\$8,729		
107	Electrical room Painting - Moved to painting allowance	Cont			\$0		Allowance
109	Thickener Polymer piping modification	Owner	DCM 64	10/24/2013	\$611	\$611	
110	Added Thermostat for WW VFD	Eng	Email	10/29/2013	\$578		
112	T&M for MCC CF Wiring Investigation/Temp Wiring	Cont	Verbal	11/8/2013	\$3,991	\$3,991	
	Subtotal PCO 106,109, 110, 112				\$13,909		CO#35
105	24-inch Valve Replacement Extra Work	Cont	T&M	10/1/2013	\$3,781		
108	Replacement LIT 07-100/ Remote LI 07-100	Owner	DCM58	10/18/2013	\$11,085		
	Subtotal PCO 105 and 108				\$14,866		CO#36
111	Screw Press Integration	Owner	DCM 63	11/6/2013	\$30,555		CO#34

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## Potential Change Order Log

Main Plant Rehabilitation Project  
Sanitary District No. 5 of Marin County

PCO No.	Description	Reason	Refer.	Date Issued	Proposed	Approved	Approved CO#
					Cost \$	Cost \$	
113	Painting Existing Piping				\$0		Allowance
114	Primary Digester Piping	Owner	Email	11/19/2013	-\$5,521		CO#37
115	Office Storefront glass removal T&M	Owner	verbal	11/20/2013	\$492		CO#37
117	DW and WW Pump Control Strategy Revisions	Owner	DCM67	11/22/2013	\$1,819		CO#37
118	HW Channel Grinder Float Control	Owner	DCM66	11/26/2013	\$8,896		CO#37
	Subtotal				\$5,686		CO#37
116	Painting Closeout - Final Credit	Eng	verbal	11/22/2013	-\$108,782		CO#38
119	Lighting Panel Replacement	Owner	DCM68	12/10/2013	\$13,106		CO#39
120	Thermostat removal	Owner	Email	12/13/2013	\$880		CO#40
122	Breakroom HVAC unit replacement	Eng	Verbal	12/19/2013	\$6,023		CO#40
123	Analyzer room piping mods.	Owner	Verbal	1/6/2014	\$848		CO#40
124	SASM sample pumps	SASM	DCM70	1/6/2014	\$4,839		CO#40
					\$12,590		
121	Emergency Eyewash station installation	Eng	Email	12/17/2013	\$12,371	\$7,006	CO#41
125	Remote PS Signals	Owner	DCM 65	1/16/2014	\$59,712		CO#42
126	Effluent sampler -additional control component installation	Owner		1/23/2014	\$3,518		T&M
127	SASM COmmunication	Owner		1/27/2014	\$1,089		T&M
TBD	SBS Tank Vent Piping	Owner			\$5,000	TBD	Carollo Est
TBD	Ferric Chloride Tank Level Transmitter Installation	Owner			\$7,500	TBD	Carollo Est
TBD	Boiler/Flare Signal wiring	Owner			\$7,500	TBD	Carollo Est
TBD	Scrubber Signal wiring	Owner			\$5,000	TBD	Carollo Est
	Subtotal of remaining TBD Items				\$25,000		

Legend:

Ch Cond - Change Condition

Owner - SD#5 Request

Engineer - Carollo Engineers Request

Cont - Contractor Auburn Constructors

Date: January 31, 2014

## Change Order Log

**Main Plant Rehabilitation Project  
Sanitary District No. 5 of Marin County**

CO No.	Description	Approved Cost \$	Revised Contract	Percent	Comments
	<b>ORIGINAL CONTRACT</b>		\$ 8,922,300.00		
1	Secondary Clarifier No. 2 Minor Repairs	\$ 12,354.00	\$ 8,934,654.00	0.14%	
2	Annular Seals	\$ 10,406.00	\$ 8,945,060.00	0.26%	
3	Misc PCO 2, 3,4,5,6,7 and 8	\$ 9,143.00	\$ 8,954,203.00	0.36%	
4	Replace Electrical Room Wall	\$ 9,013.00	\$ 8,963,216.00	0.46%	
5	DM Piping Modifications / DWP Flowmeter Valve Replacement	\$ 11,127.00	\$ 8,974,343.00	0.58%	
6	Secondary Digester Additional Sludge	\$ 18,660.00	\$ 8,993,003.00	0.79%	Bd Approval
7	Addition of 2-4" AA valves	\$ 16,586.00	\$ 9,009,589.00	0.98%	
8	Misc. PCO 15 to 21	\$ 4,405.00	\$ 9,013,994.00	1.03%	
9	PCO 23 and 24 TOTAL	\$ 273,031.00	\$ 9,287,025.00	4.09%	Bd Approval
9	PCO23	\$ 176,814.00			
9	PCO 24	\$ 96,217.00			
10	PCO 35	\$ 28,589.00	\$ 9,315,614.00	4.41%	Bd Approval
11	PCO 22 TOTAL	\$ 11,342.00	\$ 9,326,956.00	4.54%	
12	PCO 25 to 30 and 34 TOTAL	\$ 12,134.00	\$ 9,339,090.00	4.67%	
12	PCO 25	\$ 3,681.00			
12	PCO 26	\$ (3,630.00)			
12	PCO 27	\$ (22,470.00)			
12	PCO 28	\$ 28,013.00			
12	PCO 29	\$ (1,468.00)			
12	PCO 30	\$ 4,030.00			
12	PCO34	\$ 3,978.00			
13	PCO33 TOTAL	\$ 14,977.00	\$ 9,354,067.00	4.84%	
14	PCO 36, 37 & 38	\$ 9,214.00	\$ 9,363,281.00	4.94%	
15	PCO 39	\$ 11,615.00	\$ 9,374,896.00	5.07%	
16	PCO 40 & 42	\$ 10,717.00	\$ 9,385,613.00	5.19%	
17	PCO 41	\$ 14,566.00	\$ 9,400,179.00	5.36%	
18	PCO 43 & 44	\$ 7,403.00	\$ 9,407,582.00	5.44%	
19	PCO 50 - Main Switch Board Replacement	\$ 34,401.00	\$ 9,441,983.00	5.82%	Bd Approval
20	PCO 45 - Server Relocation	\$ 10,747.00	\$ 9,452,730.00	5.94%	
20	PCO 48 - Screw Press 3W Piping	\$ 8,087.00	\$ 9,460,817.00	6.04%	
20	PCO 51 - SASM Flowmeter Transmitter	\$ 4,569.00	\$ 9,465,386.00	6.09%	
20	PCO 52 - Additional Calibration Columns	\$ 1,588.00	\$ 9,466,974.00	6.10%	

Date: January 31, 2014

## Change Order Log

**Main Plant Rehabilitation Project  
Sanitary District No. 5 of Marin County**

CO No.	Description	Approved Cost \$	Revised Contract	Percent	Comments
20	PCO 53 - Deletion of the Ground Grid	\$ (10,248.00)	\$ 9,456,726.00	5.99%	
20	PCO 54 - Deletion of AB Concrete Repairs	\$ (10,844.00)	\$ 9,445,882.00	5.87%	
20	PCO 55 - Relocation of Chem Room Lights	\$ 1,541.00	\$ 9,447,423.00	5.89%	
20	PCO 56 - Generator Termination Box	\$ 1,319.00	\$ 9,448,742.00	5.90%	
20	PCO 57 - RAS Line Valve	\$ 2,494.00	\$ 9,451,236.00	5.93%	
20	PCO 58 - Digester Piping Modifications	\$ 1,986.00	\$ 9,453,222.00	5.95%	
21	PCO 60 - LCP-05-001 Modifications	\$ 3,338.00	\$ 9,456,560.00	5.99%	
21	PCO 61 - New Influent Flowmeters (Options a and B)	\$ 14,335.00	\$ 9,470,895.00	6.15%	
21	PCO 62 - Deletion of the effluent flow meter	\$ (31,887.00)	\$ 9,439,008.00	5.79%	???
21	PCO 63 - Relocate EF-06-520	\$ 2,691.00	\$ 9,441,699.00	5.82%	
22	PCO 64 to 74 combined except PCO 71 and 73	\$ 5,357.00	\$ 9,447,056.00	5.88%	
23	PCO 71 HMI Programing	\$ 18,228.00	\$ 9,465,284.00	6.09%	Bd Approval
24	PCO 73 Electrical Room HVAC Power	\$ 18,614.00	\$ 9,483,898.00	6.29%	Bd Approval
25	PCO 75 to 84 except 79, 80, 82	\$ 20,307.00	\$ 9,504,205.00	6.52%	Bd Approval
26	PCO 79	\$ 16,016.00	\$ 9,520,221.00	6.70%	Bd Approval
27	PCO 80	\$ 18,541.00	\$ 9,538,762.00	6.91%	Bd Approval
28	PCO 82	\$ 5,109.00	\$ 9,543,871.00	6.97%	
29	PCO 85 - 88	\$ 21,510.00	\$ 9,565,381.00	7.21%	Bd Approval
30	PCO 95	\$ 8,268.00	\$ 9,573,649.00	7.30%	
31	PCO 89 - 95, except PCO 93	\$ 28,539.00	\$ 9,602,188.00	7.62%	Board Approval
32	PCO 98,99,100, 101, 102 & 103 plus Deletions	\$ 55,593.00			Board Approval
		\$ (5,177.00)	\$ 9,652,604.00	8.19%	
33	PCO 104	\$ (69,457.00)	\$ 9,583,147.00	7.41%	Need Board Approval
34	PCO 111 Screw Press Integration	\$ 30,555.00	\$ 9,613,702.00	7.75%	Board Approved
35	PCO 106,109, 110, 112	\$ 13,909.00	\$ 9,627,611.00	7.91%	DM Approved
36	PCO 105 and 108	\$ 14,866.00	\$ 9,642,477.00	8.07%	DM Approved
37	PCO 114, 115, 117 and 118	\$ 5,686.00	\$ 9,648,163.00	8.14%	DM Approval
38	Paint Allowance PCO 116	\$ (108,782.00)	\$ 9,539,381.00	6.92%	Board Approved
39	PCO 119	\$ 13,106.00	\$ 9,552,487.00	7.06%	DM Approval
40	PCO 120, 122, 123, and 124	\$ 12,590.00	\$ 9,565,077.00	7.20%	DM Approval
41	PCO 121 - REVISED	\$ 7,006.00	\$ 9,572,083.00	7.28%	DM Approval
42	Remote PS/Site Integration TESCO PCO 126	\$ 59,712.00	\$ 9,631,795.00	7.95%	Board Approved
TBD	Misc T&M Clean-uo Items	\$ 4,607.00	\$ 9,636,402.00	8.00%	To Be Approved
TBD	Misc Clean-up	\$ 25,000.00	\$ 9,656,795.00	8.23%	Carollo Estimate
	Approved CO to Date		\$ 709,495.00		



Sanitary District No. 5 of Marin County  
Main Plant Rehabilitation Project  
Construction Budget Status / Percent Complete  
January 2014

Period	Total Contract Value	Total Equipment	Total less Equipment	Total Complete	Percentage Total Complete	Equipment Complete	Total Complete less Equipment	Percentage less equipment	Total Projection	Total Projection Less EQ	Monthly Delta Less Equip
Feb-13	\$9,354,067	\$3,396,189	\$5,957,878	\$4,315,033	46.1%	\$2,373,721	\$1,941,312	32.6%			
Mar-13	\$9,441,983	\$3,581,579	\$5,860,404	\$5,159,699	54.6%	\$2,940,287	\$2,219,412	37.9%			5.3%
Apr-13	\$9,453,222	\$3,581,579	\$5,871,643	\$6,057,556	64.1%	\$3,339,934	\$2,717,622	46.3%			8.4%
May-13	\$9,441,699	\$3,624,360	\$5,817,339	\$6,598,902	69.9%	\$3,486,485	\$3,112,417	53.5%			7.2%
Jun-13	\$9,483,898	\$3,624,360	\$5,859,538	\$7,335,802	77.4%	\$3,486,485	\$3,849,317	65.7%			12.2%
Jul-13	\$9,543,871	\$3,624,360	\$5,919,511	\$7,665,369	80.3%	\$3,619,860	\$4,045,509	68.3%			2.6%
Aug-13	\$9,565,381	\$3,624,360	\$5,941,021	\$8,141,797	85.1%	\$3,619,860	\$4,521,937	76.1%			7.8%
Sep-13	\$9,602,188	\$3,624,360	\$5,977,828	\$8,508,337	88.6%	\$3,624,360	\$4,883,977	81.7%			5.6%
Oct-13	\$9,652,604	\$3,624,360	\$6,028,244	\$8,865,142	91.8%	\$3,624,360	\$5,240,782	86.9%			5.2%
Nov-13	\$9,642,477	\$3,624,360	\$6,018,117	\$9,270,071	96.1%	\$3,624,360	\$5,645,711	93.8%			6.9%
Dec-13	\$9,539,381	\$3,624,360	\$5,915,021	\$9,485,521	99.4%	\$3,624,360	\$5,861,161	99.1%	99.4%	99.1%	5.3%
Jan-14	\$9,631,795	\$3,624,360	\$6,007,435	\$9,551,338	99.2%	\$3,624,360	\$5,926,978	98.7%			



Application For Payment

**Main Plant Rehabilitation Project**  
2001 Paradise Drive  
Tiburon, CA 94920

**Project # 1109**  
Tel: 916-997-7254 Fax: 916-924-1800

**Auburn Constructors, Inc.**

<b>Application Date:</b> 1/24/2014	<b>Contract No:</b> 224	<b>Application No:</b> 020
<b>To Owner:</b> Sanitary District No. 5 of Marin County 2001 Paradise Drive, Tiburon, CA 94920 P.O. Box 227, Tiburon, CA 94920	<b>From Contractor:</b> Auburn Constructors, Inc. 730 W. Stadium Lane	<b>Via Architect:</b> Carollo Engineers 2700 Ygnacio Valley Road, Suite 300, Walnut Creek
<b>Contract For:</b>	<b>Period Number:</b> 20	<b>Period To:</b> 1/24/2014

**Application For Payment Summary**

1. Original Contract Value.....	\$8,922,300.00
2. Net Change by Change Orders.....	\$709,495.00
3. Contract Value To Date.....	\$9,631,795.00 ✓
4. Total Completed Stored To Date.....	\$9,551,338.25 ✓
5. Completed Work Retainage.....	\$238,783.76
6. Stored Material Retainage.....	\$0.00
7. Total Retainage.....	\$238,783.76
8. Total Earned Less Retainage.....	\$9,312,554.49
9. Less Previous Certificates For Payment.....	\$9,011,245.80
10. Current Payment Due.....	\$301,308.69
11. Balance To Finish, including Retainage.....	\$319,240.51

C.A. Term  
\$709,495  
99.2% /  
95.7%

Change Order Summary	Additions	Deductions
Total changes in previous months	\$806,843.00	\$189,762.00
Total approved this month	\$92,414.00	\$0.00
<b>Totals</b>	<b>\$899,257.00</b>	<b>\$189,762.00</b>
<b>Net Changes by Change Order</b>	<b>\$709,495.00</b>	

**Contractor Signature:**  
By: *[Signature]* Date: 1/24/14

**Amount Certified:** \_\_\_\_\_

**Architect Signature:**  
By: *[Signature]* Date: 1/31/14

**Owner Signature:**  
By: \_\_\_\_\_ Date: \_\_\_\_\_



Application For Payment

Main Plant Rehabilitation Project  
 2001 Paradise Drive  
 Tiburon, CA 94920

Project # 1109  
 Tel: 916-997-7254 Fax: 916-924-1800

Auburn Constructors, Inc.

Contract No: 224  
 To Company:  
 From Company: Auburn Constructors, Inc.

Application No: 020  
 Application Date: 1/24/2014  
 Period To: 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
001		Mobilization	247,156	247,156	0	0	0	247,156	100	0	6,179
002		Equipment Procurement	3,624,360	3,624,360	0	0	0	3,624,360	100	0	90,609
003		Yard Piping	213,772	213,772	0	0	0	213,772	100	0	5,344
004		Wet Weather Primary	813,722	813,722	0	0	0	813,722	100	0	20,343
005		Dry Weather Primary	530,047	530,047	0	0	0	530,047	100	0	13,251
006		Anaerobic Digesters	476,218	476,218	0	0	0	476,218	100	0	11,905
007		Chemical Systems	376,628	376,628	0	0	0	376,628	100	0	9,416
008		Aeration Basins	97,106	97,106	0	0	0	97,106	100	0	2,428
009		Blower Room	273,733	273,733	0	0	0	273,733	100	0	6,843
010		Secondary Clarifiers	82,256	82,256	0	0	0	82,256	100	0	2,056
011		RAS/WAS Room	261,293	261,293	0	0	0	261,293	100	0	6,532
012		Sludge Thickener	370,575	370,575	0	0	0	370,575	100	0	9,264
013		Chlorine Contact Basin	265,440	265,440	0	0	0	265,440	100	0	6,636
014		Headworks	207,921	207,921	0	0	0	207,921	100	0	5,198
015		Dewatering Area	59,945	59,945	0	0	0	59,945	100	0	1,499
017		Office Renovation	89,616	89,616	0	0	0	89,616	100	0	2,240
018		Other Work	0	0	0	0	0	0	0	0	0

Detailed application for payment continuation sheet.

**Application For Payment**  
Detailed Sheet

**Contract No:** 224  
**To Company:**  
**From Company:** Auburn Constructors, Inc.

**Application No:** 020  
**Application Date:** 1/24/2014  
**Period To:** 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
018A		-Install Ground Grid/Repair Improvements	31,349	31,349	0	0	0	31,349	100	0	784
018B		-Graphic Configuration Allowance	297,000	282,150	14,850	0	0	297,000	100	0	7,425
018C		-Painting Allowance	41,218	41,218	0	0	0	41,218	100	0	1,030
018D		-Repair Paving	7,444	7,444	0	0	0	7,444	100	0	186
018E		-Install Fire Extinguishers	4,780	0	4,780	0	0	4,780	100	0	120
018F		-Terminate and Test Fiber Optics	12,533	12,533	0	0	0	12,533	100	0	313
019		Start-Up and Testing	224,106	224,106	0	0	0	224,106	100	0	5,603
020		Punchlist/Demobilization	9,527	8,638	889	0	0	9,527	100	0	238
021		PCCO 1-Reparis in Secondary Clarifier	10,886	10,886	0	0	0	10,886	100	0	272
022		PCCO 2-Addition of Annular Seals	10,406	10,406	0	0	0	10,406	100	0	260
023		PCCO 3-RAS/WAS Piping Modifications	7,907	7,907	0	0	0	7,907	100	0	198
024		PCCO 3-Additional Concrete Repair in Chemical Area	323	323	0	0	0	323	100	0	8
025		PCCO 3-Replace Chemical Area Wall	8,317	8,317	0	0	0	8,317	100	0	208
026		PCCO 4-Replace Wall in Electrical Room MP	9,013	9,013	0	0	0	9,013	100	0	225
027		PCCO 5-Digester Mixing Piping Mods and DWP Flowmeter Isolation Valve Replacement	11,127	11,127	0	0	0	11,127	100	0	278

**Application For Payment**  
Detailed Sheet

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A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
028		PCCO 6-Additional Sludge Removal at Secondary Digester	18,660	18,660	0	0	0	18,660	100	0	467
029		PCCO 7-AB Effluent Channel Air Header Modifications	16,586	16,586	0	0	0	16,586	100	0	415
030		PCCO 8-Secondary Digester Cover Repairs	1,322	1,322	0	0	0	1,322	100	0	33
031		PCCO 8-SC #2 Scum Skimmer Repairs	1,336	1,336	0	0	0	1,336	100	0	33
032		PCCO 8-Additional Concrete Repair in Chemical Area	3,873	3,873	0	0	0	3,873	100	0	97
033		PCCO 8-Removal of Existing Buried Utilities	4,874	4,874	0	0	0	4,874	100	0	122
034		PCCO 8-MCC-CF Welding Receptacle	4,166	4,166	0	0	0	4,166	100	0	104
035		PCCO 8-Relocation of SASM Comm Cabinet	738	738	0	0	0	738	100	0	18
036		PCCO 9-Furnish and Install New Sludge Collectors in Clarifiers	176,814	176,814	0	0	0	176,814	100	0	4,420
037		PCCO 9-Furnish and Install New Sludge Collectors in DWP	96,217	96,217	0	0	0	96,217	100	0	2,405
038		PCCO 10-Replace Wet Weather Pumps Discharge Check Valves	28,589	28,589	0	0	0	28,589	100	0	715
039		PCCO 11-Rock Excavation	11,342	11,342	0	0	0	11,342	100	0	284
040		PCCO 12-Demolish Existing Backwash Piping	3,681	3,681	0	0	0	3,681	100	0	92

**Application For Payment**  
Detailed Sheet

**Contract No:** 224  
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**Period To:** 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
041		PCCO 12-Replace Skimmer Troughs in WWP	28,013	28,013	0	0	0	28,013	100	0	700
042		PCCO 12-Misc. Demo and Cleanup in MCC-MP Room	4,030	4,030	0	0	0	4,030	100	0	101
043		PCCO 12-Repair Existing Plant Water Piping	3,978	3,978	0	0	0	3,978	100	0	99
044		PCCO 13-Chemical Room Modifications	14,977	14,977	0	0	0	14,977	100	0	374
045		PCCO 14-Relocate Plant Air Compressor	1,824	1,824	0	0	0	1,824	100	0	46
046		PCCO 14-Additional Chemical Room Demo	3,046	3,046	0	0	0	3,046	100	0	76
047		PCCO 14-Repair Caulk Joints	4,344	4,344	0	0	0	4,344	100	0	109
048		PCCO 15-Replace Thickened Sludge Pumps Suction Valves and Piping	11,615	11,615	0	0	0	11,615	100	0	290
049		PCCO 16-Furnish Parts to Rehabilitate DWP Skimmers	3,365	3,365	0	0	0	3,365	100	0	84
050		PCCO 16-Temporarily Hook Up Blower #3	7,352	7,352	0	0	0	7,352	100	0	184
051		PCCO 17-Dewatering Pump Discharge Piping Mods	14,566	14,566	0	0	0	14,566	100	0	364
052		PCCO 18-Office Floor Plan Modifications	0	0	0	0	0	0	0	0	0
053		PCCO 18-Replace Sludge Pump Rotameters	4,720	4,720	0	0	0	4,720	100	0	118

**Application For Payment**  
Detailed Sheet

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A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
054		PCCO 19-Replace Main Switchboard	34,401	34,401	0	0	0	34,401	100	0	860
055		PCCO 20-Server Relocation	10,747	10,747	0	0	0	10,747	100	0	269
056		PCCO 20-Screw Press Piping	8,087	8,087	0	0	0	8,087	100	0	202
057		PCCO 20-Relocate SASM Flow Transmitter	4,569	4,569	0	0	0	4,569	100	0	114
058		PCCO 20-Furnish Additional Calibration Columns	1,588	1,588	0	0	0	1,588	100	0	40
059		PCCO 20-Relocate Chemical Room Lights	1,541	1,541	0	0	0	1,541	100	0	39
060		PCCO 20-Replace Existing Generator Termination Box	1,319	1,319	0	0	0	1,319	100	0	33
061		PCCO 20-Install RAS Discharge Valve	0	0	0	0	0	0	0	0	0
062		PCCO 20-Digester Piping Modifications	1,698	1,698	0	0	0	1,698	100	0	42
063		PCCO 21-DWP and WWP Influent Flowmeters	14,335	14,335	0	0	0	14,335	100	0	358
064		PCCO 21-LCP-05-001 Conduit Modifications	3,338	3,338	0	0	0	3,338	100	0	83
065		PCCO 21-Relocate Exhaust Fan EF-06-520	2,691	2,691	0	0	0	2,691	100	0	67
066		PCCO 22-Reinstall Exhaust Duct in Chemical Room	3,321	3,321	0	0	0	3,321	100	0	83
067		PCCO 22-Furnish and Install LCP-07-500	9,814	9,814	0	0	0	9,814	100	0	245

**Application For Payment**  
Detailed Sheet

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**Period To:** 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
068		PCCO 22-Install Temporary WAS Polymer Injection Point	7,488	7,488	0	0	0	7,488	100	0	187
069		PCCO 22-Additional Programming Services-COS-05-450	1,681	1,681	0	0	0	1,681	100	0	42
070		PCCO 22-Repair Broken PVC Chemical Pipe	1,035	1,035	0	0	0	1,035	100	0	26
071		PCCO 22-Replace Office Exterior Glass	4,714	4,714	0	0	0	4,714	100	0	118
072		PCCO 23-HMI Programming	18,228	18,228	0	0	0	18,228	100	0	456
073		PCCO 24-Electrical Room MP and WP HVAC Power	18,614	18,614	0	0	0	18,614	100	0	465
074		PCCO 25-Replace RAS Sump Piping	3,661	3,661	0	0	0	3,661	100	0	92
075		PCCO 25-New Lighting in Electrical Room MP	2,373	2,373	0	0	0	2,373	100	0	59
076		PCCO 25-Power to FIT-17-201	1,855	1,855	0	0	0	1,855	100	0	46
077		PCCO 25-Relocate Analyzers in Maintenance Shop	2,269	2,269	0	0	0	2,269	100	0	57
078		PCCO 25-Caulk Penetrations in RAS Sump	1,067	1,067	0	0	0	1,067	100	0	27
079		PCCO 25-Modify FA Ductwork at Aeration Basins	4,591	4,591	0	0	0	4,591	100	0	115
080		PCCO 25-Repair Stucco at Office Exterior	4,491	4,491	0	0	0	4,491	100	0	112



**Application For Payment**  
Detailed Sheet

**Contract No:** 224  
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**Application No:** 020  
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A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
081		PCCO 26-Roof Flashing and Ductwork Replacement, Misc. Demo	16,016	16,016	0	0	0	16,016	100	0	400
082		PCCO 27-Digester Mixing Pump Piping Modifications	18,541	18,541	0	0	0	18,541	100	0	464
083		PCCO 28-Replace Office First Floor HVAC Unit	5,109	5,109	0	0	0	5,109	100	0	128
084		PCCO 29-Replace Exhaust Fans EF-WP-1, EF-WP-2 and EF-WP-3	7,041	7,041	0	0	0	7,041	100	0	176
085		PCCO 29-Chemical Area Strut Changes	3,027	3,027	0	0	0	3,027	100	0	76
086		PCCO 29-Plant Water Pump Piping Changes	5,650	5,650	0	0	0	5,650	100	0	141
087		PCCO 29-Drainback Control Valve Modifications	5,792	5,792	0	0	0	5,792	100	0	145
088		PCCO 30-Repair Coating in DWP No. 2	8,268	8,268	0	0	0	8,268	100	0	207
089		PCCO 31-Influent Sampler Modifications	4,126	4,126	0	0	0	4,126	100	0	103
090		PCCO 31-RDT Slab Modifications	4,125	4,125	0	0	0	4,125	100	0	103
091		PCCO 31-Chemical Chase Pipe	3,685	3,685	0	0	0	3,685	100	0	92
092		PCCO 31-Thickener Paving and Concrete Flatwork	4,525	4,525	0	0	0	4,525	100	0	113
093		PCCO 31-Temporary Power To Existing Odor Scrubber Blower	4,511	4,511	0	0	0	4,511	100	0	113

**Application For Payment**  
Detailed Sheet

**Contract No:** 224  
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**Period To:** 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
094		PCCO 31-DWP Skimmer Additional Modifications	7,567	7,567	0	0	0	7,567	100	0	189
095		PCCO 32-Replace Pressure Gauge-Mixing Pump No. 1	2,097	2,097	0	0	0	2,097	100	0	52
096		PCCO 32-Install Piping Insulation on Existing Mixing and Recirc Piping in Boiler Room	1,600	1,600	0	0	0	1,600	100	0	40
097		PCCO 32-Replace Exhaust Fan in Influent Sampler Room	21,315	21,315	0	0	0	21,315	100	0	533
098		PCCO 32-Furnish and Install EF Current Sensors	7,314	7,314	0	0	0	7,314	100	0	183
099		PCCO 32-Replace Chlorine Analyzers and Turbidity Monitor	23,267	23,267	0	0	0	23,267	100	0	582
100		PCCO 34-Screw Press Integration	30,555	6,111	16,805	0	0	22,916	75	7,639	573
101		PCCO 35-Electrical Room MP Misc. Demo and Modifications	8,729	8,729	0	0	0	8,729	100	0	218
102		PCCO 35-Polymer Blending Unit Piping Modifications	611	611	0	0	0	611	100	0	15
103		PCCO 35-Add Thermostats to Wet Weather Pump VFD's	578	578	0	0	0	578	100	0	14
104		PCCO 35-Temp Wire Existing Equipment at MCC-CF	3,991	3,991	0	0	0	3,991	100	0	100
105		PCCO 36-24" Valve	3,781	3,781	0	0	0	3,781	100	0	95

**Application For Payment**  
Detailed Sheet

**Contract No:** 224  
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**Application No:** 020  
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**Period To:** 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
		Isolaton and Bypass Pump Wiring									
106		PCCO 36-Furnish and Install LE/LIT-07-100	11,085	11,085	0	0	0	11,085	100	0	277
107		PCCO 37-Remove Existing Glass in Office	492	492	0	0	0	492	100	0	12
108		PCCO 37-DW & WW RSG Pump Controls	1,819	1,819	0	0	0	1,819	100	0	45
109		PCCO 37-Headworks Grinder Control Modifications	8,896	0	8,896	0	0	8,896	100	0	222
110		PCCO 39-Replace Panelboards LP-D and LP-F	13,106	0	0	0	0	0	0	13,106	0
111		PCCO 40-Remove Existing Exhaust Fan Thermostats	880	0	880	0	0	880	100	0	22
112		PCCO 40-Replace Breakroom HVAC Unit AC-05-510	6,023	0	6,023	0	0	6,023	100	0	151
113		PCCO 40-Analyzer Room Piping Modifications	848	0	848	0	0	848	100	0	21
114		PCCO 40-Replace SASM Sample Pumps	4,839	0	4,839	0	0	4,839	100	0	121
115		PCCO 41-Install Additional Eyewash Units	7,006	0	7,006	0	0	7,006	100	0	175
116		PCCO 41-Remote Pump Station Integration and Telemetry	59,712	0	0	0	0	0	0	59,712	0

**Application For Payment**  
Detailed Sheet

**Contract No:** 224  
**To Company:**  
**From Company:** Auburn Constructors, Inc.

**Application No:** 020  
**Application Date:** 1/24/2014  
**Period To:** 1/24/2014

A	B	C	D	E	F	G	H	I	J	K	L
Item No	Category ID	Description	Scheduled Value	Previous Work And Material Installed	Work This Invoice	Material Installed This Invoice	Total Stored Material	Total Completed	Percent Complete	Balance To Complete Value	Total Retain Value
Totals:			9,631,795	9,485,522	65,816	0	0	9,551,338	99	80,457	238,784



January 31, 2013  
7793F.20

Sanitary District No. 5 of Marin County  
2001 Paradise Drive  
Tiburon, CA 94920  
Attention: Samantha Miller, District Manager

Subject: Main Plant Rehabilitation Project–ESDC/RI  
Monthly Progress Summary Report for December 2013

Dear Mrs. Miller:

The table below summarizes our expenditures for the Main Plant Rehabilitation (MPR) ESDC/RI project. The authorized additional Construction Management and Resident Inspection Services During Construction included in Amendment No 1 have been included. Expenditures to date on the proposed additional services are included in the attached detailed summary of task activity.

<b>Project Name</b>	<b>Current Period</b>	<b>Job to Date</b>	<b>Budget</b>	<b>Percent of Budget</b>
Engineering Services During Construction/Part Time Resident Inspection (RI)	\$49,088.99	\$1,169,931.60	\$1,232,810	94.9%
Entry Way and Access Improvements Design Amendment No. 2 and 3	\$2520.00	\$101,614.51	\$98,116	104%
<b>Totals</b>	<b>\$51,608.99</b>	<b>\$1,271,546.11</b>	<b>\$1,330,925</b>	<b>95.5%</b>

### **Key Activities Completed in December 2013**

1. Carollo provided on-going project management and monthly invoice preparation.
2. Carollo attended one MPR committee meeting and one Board meeting.
3. Reviewed and provided comments on four equipment and material submittals out of 205-first time submittals and 73-second time submittal received to date.
4. No new Request for Information (RFI) were received in December, a total of 72 RFIs have been received to date.
5. Carollo issued a design clarification and finalized two change-orders with the contractor. To date 69 design clarifications have been issued to the contractor.
6. Reviewed monthly schedule update, dated December 24, 2013.
7. Carollo provided on-site CM/RI inspector for 11 days in December 2013.

### **Budget Status**

The overall budget status is fair, with a total of 95.5% of the budget expended. The overall additional CM/RI budget expended from Amendment No. 1 was estimated at 95% of the authorized total.

Currently Carollo has \$59,379 remaining in the overall construction support budget, which includes a reserve of approximately \$34,025 for record drawings. Therefore, we have only \$25,354 to close out the MPR project in January and complete the Entryway and ADA Access

Ms. Samantha Miller, District Manager  
Sanitary District No. 5 of Marin County  
January 31, 2013  
Page 2

Improvement project. This may require authorization of a portion of the start-up task budget to complete both projects, or use of record drawing budget for close out. Note the design budget for the Entryway and Access Improvements project has been completely expended.

If you have any questions or comments on our invoice or progress report, please call or email.

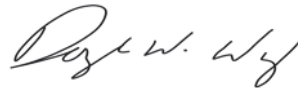
Sincerely,

CAROLLO ENGINEERS, INC.



Rick Chan, P.E.  
Principal-in-Charge

DWW:dlt



Doug Wing, P.E.  
Project Manager

CC: Robin Dohrmann

Bob Simmons, Interim Assistant General Manager

Enclosure: December 2013 Invoice # 0132600 dated January 16, 2013

**Carollo MPR Project Engineering Services During Construction  
and Resident Inspection  
December 2013**

Updated: 1/16/2014

Subtask No.	Activity Description	Total No. of Activities	Active Comp.	Active . % Comp.	Total Hours	Hrs. Worked	% Hrs. Worked	NTE Costs	Total Costs Invoiced	% NTE Costs Invoiced
1.1	Project Management (18 mo.)	18	20	111%	112	125	112%	\$ 30,278	\$ 33,322.24	110%
1.2	Conformed Dwgs. & Specs. (minimal)	0		100%	166	145.5	88%	\$ 27,868	\$ 28,387.67	102%
1.3	Meetings/Site Visits (1 conf. + 18 mtgs + 4 coord.+ 2 spec.)	25	31	124%	200	239.5	120%	\$ 48,383	\$ 64,100.52	132%
1.4	Submittal Review/Resubmittals (Use 300 total)	200/100	272	91%	2000	1694.25	85%	\$ 415,770	\$ 381,172.29	92%
1.5	Response to RFIs	150	72	48%	900	634	70%	\$ 186,670	\$ 149,461.80	80%
1.6	Design Clarification	20	69	345%	160	160.5	100%	\$ 30,516	\$ 38,970.43	128%
1.7	Monthly Schedule Reviews (2 BL + 8)	10	12	120%	52	34.5	66%	\$ 39,297	\$ 34,693.26	88%
1.8	Record Drawings			20%	250	71.25	29%	\$ 46,650	\$ 12,625.24	27%
	Subtotal				3840	3104.5	81%	\$ 825,432	\$ 742,733.45	90.0%
2.1	Contract Administration (1 conf. + 2 wks x 16 mo.)	18	18	100%	560	494.75	88%	\$ 137,840	\$ 133,782.07	97%
2.2	Field Inspect./RI (1.5 days/wk.x 4 wks/mo. x 16 mo.)	147	147	100%	1392	1662	119%	\$ 247,178	\$ 279,613.84	113%
2.3	Coord. w/Material Testing (6 mtgs.)	6	2	33%	24	1.5	6%	\$ 8,236	\$ 1,503.75	18%
2.4	Coord. w/System Programmer (4.5 day workshop+4 mtgs.)	9	12	141%	40	40.5	101%	\$ 7,060	\$ 10,178.49	144%
2.5	Project Completion				36	10	28%	\$ 7,064	\$ 2,120.00	30%
	Subtotal				2052	2208.75	108%	\$ 407,378	\$ 427,198.15	105%
	<b>NTE Authorized Total Price</b>				<b>5892</b>	<b>5313.25</b>	<b>90%</b>	<b>\$ 1,232,810</b>	<b>\$ 1,169,931.60</b>	<b>94.9%</b>
5	Access Improvements Amendment				68	157.75	232%	\$ 29,866	\$ 50,450.88	169%
6	Office/Entryway/Access Improvements Bid				161	129.25	80%	\$ 68,250	\$ 51,163.63	75%
	Subtotal Task 5 and 6				229	287	125%	\$ 98,116	\$ 101,614.51	104%
	<b>Total with Access Improvements</b>				<b>6121</b>	<b>5600.25</b>	<b>91%</b>	<b>\$ 1,330,925</b>	<b>\$ 1,271,546.11</b>	<b>95.5%</b>
	<b>Authorized Budget Remaining</b>							<b>\$ 59,379</b>		<b>4%</b>
	Additional CM/RI - 2012				284	201	71%	\$ 65,596	\$ 46,348.35	71%
	Additional CM/RI - 1/2013 to 6/2013				500	513	103%	\$ 101,314	\$ 93,553.35	92%
	Additional CM/RI - 7/2013 to 11/2013				360	480	133%	\$ 73,160	\$ 87,792.00	120%
	Total Amendment No. 1 (Authorized)				1144	1194	104%	\$ 240,070	\$ 227,694	95%



Engineers...Working Wonders With Water®

Attn: Samantha Miller  
 Sanitary District No.5 of Marin County  
 P.O. Box 227  
 Tiburon, CA 94920

January 16, 2014  
 Project No: 07793F.20  
 Invoice No: 0132600

Main Plan Rehabilitation Project-ESDC  
 Agreement Executed 5/1/2012 \$992,740  
 Amend No.1, Executed 12/4/12 \$240,070 (August thru Dec 2012 \$65,596 is Authorized)  
 NTP for Amend #1, Jan thru June 2013 \$101,314  
 NTP for Amend #1, July thru Dec 2013 \$ 73,160  
 Amend #2, Signed 4/29/13 \$29,866  
 Amend #3, Signed 9/20/13 \$68,249

**Professional Services from December 01, 2013 to December 31, 2013**

Task 101 Project Management

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>	
Engineers/Scientists				
Chan, Rick	3.00	249.00	747.00	
Wing, Douglas	2.00	249.00	498.00	
Totals	5.00		1,245.00	
<b>Total Labor</b>				<b>1,245.00</b>

**Unit Billing**

PECE Charges	5.0 Hrs @ 9.50	47.50		
<b>Total Units</b>		<b>47.50</b>	<b>47.50</b>	

**Task Total                   \$1,292.50**

	<b>Current</b>	<b>Prior</b>	<b>Total</b>
<b>Billings to Date</b>	<b>1,292.50</b>	<b>32,029.74</b>	<b>33,322.24</b>

Task 103 Meetings/Site Visits

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>	
Engineers/Scientists				
Wing, Douglas	13.00	249.00	3,237.00	
Totals	13.00		3,237.00	
<b>Total Labor</b>				<b>3,237.00</b>

**Unit Billing**

PECE Charges	13.0 Hrs @ 9.50	123.50		
<b>Total Units</b>		<b>123.50</b>	<b>123.50</b>	





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Project	07793F.20	Main Plant Rehab-ESDC & Resident Insp	Invoice	0132600
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**Task Total \$3,360.50**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>3,360.50</b>	<b>60,740.02</b>	<b>64,100.52</b>

Task 104 Submittals

**Professional Personnel**

	Hours	Rate	Amount
Engineers/Scientists			
Bahneman, Erik	1.50	209.00	313.50
Dorafsha, Jamshid	1.00	229.00	229.00
Kwong, Paul	5.00	229.00	1,145.00
Wing, Douglas	6.00	249.00	1,494.00
Totals	13.50		3,181.50
<b>Total Labor</b>			<b>3,181.50</b>

**Unit Billing**

PECE Charges	13.5 Hrs @ 9.50	128.25	
<b>Total Units</b>		<b>128.25</b>	<b>128.25</b>

**Task Total \$3,309.75**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>3,309.75</b>	<b>377,862.54</b>	<b>381,172.29</b>

Task 105 RFI's

**Professional Personnel**

	Hours	Rate	Amount
Engineers/Scientists			
Bahneman, Erik	1.00	209.00	209.00
Dorafsha, Jamshid	1.50	229.00	343.50
Wing, Douglas	5.00	249.00	1,245.00
Totals	7.50		1,797.50
<b>Total Labor</b>			<b>1,797.50</b>

**Unit Billing**

PECE Charges	7.5 Hrs @ 9.50	71.25	
<b>Total Units</b>		<b>71.25</b>	<b>71.25</b>

**Task Total \$1,868.75**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>1,868.75</b>	<b>147,593.05</b>	<b>149,461.80</b>



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Project	07793F.20	Main Plant Rehab-ESDC & Resident Insp	Invoice	0132600
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Task	107	Schedule Review		
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**Consultants**

Construction Scheduling Experts

1/5/2014	Construction Scheduling Experts	p/e 01/05/13	3,000.00	
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**Total Consultants** **1.1 times** **3,000.00** **3,300.00**

**Task Total** **\$3,300.00**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>3,300.00</b>	<b>31,393.26</b>	<b>34,693.26</b>

Task	201	Contract Administration		
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**Professional Personnel**

	Hours	Rate	Amount	
Engineers/Scientists				
Wing, Douglas	63.00	249.00	15,687.00	
Totals	63.00		15,687.00	
<b>Total Labor</b>				<b>15,687.00</b>

**Unit Billing**

Mileage	405.0 Miles @ 0.565	228.83	
PECE Charges	63.0 Hrs @ 9.50	598.50	
<b>Total Units</b>		<b>827.33</b>	<b>827.33</b>

**Task Total** **\$16,514.33**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>16,514.33</b>	<b>117,267.74</b>	<b>133,782.07</b>

Task	202	Inspection		
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**Professional Personnel**

	Hours	Rate	Amount	
Technicians				
de Luna, Michael	101.00	152.00	15,352.00	
Totals	101.00		15,352.00	
<b>Total Labor</b>				<b>15,352.00</b>

**Reimbursable Expenses**

Parking / Taxi / Toll	105.00		
Auto Mileage	1,209.66		
<b>Total Reimbursables</b>	<b>1,314.66</b>		<b>1,314.66</b>

**Unit Billing**

PECE Charges	101.0 Hrs @ 6.50	656.50	
<b>Total Units</b>		<b>656.50</b>	<b>656.50</b>



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Project	07793F.20	Main Plant Rehab-ESDC & Resident Insp	Invoice	0132600
			<b>Task Total</b>	<b>\$17,323.16</b>

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>17,323.16</b>	<b>262,290.68</b>	<b>279,613.84</b>

Task 205 Project Completion

**Professional Personnel**

	Hours	Rate	Amount
Engineers/Scientists			
Dadik, Michael	5.00	229.00	1,145.00
Frost, Daniel	5.00	176.00	880.00
Totals	10.00		2,025.00
<b>Total Labor</b>			<b>2,025.00</b>

**Unit Billing**

PECE Charges	10.0 Hrs @ 9.50	95.00
<b>Total Units</b>		<b>95.00</b>

**Task Total \$2,120.00**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>2,120.00</b>	<b>0.00</b>	<b>2,120.00</b>

Task 600 Entryway Addition & ADA Access Impvmnts

**Professional Personnel**

	Hours	Rate	Amount
Engineers/Scientists			
Wing, Douglas	6.00	249.00	1,494.00
Technicians			
Rygh, James	6.00	152.00	912.00
Totals	12.00		2,406.00
<b>Total Labor</b>			<b>2,406.00</b>

**Unit Billing**

PECE Charges	12.0 Hrs @ 9.50	114.00
<b>Total Units</b>		<b>114.00</b>

**Task Total \$2,520.00**

<b>Billings to Date</b>	<b>Current</b>	<b>Prior</b>	<b>Total</b>
	<b>2,520.00</b>	<b>48,643.63</b>	<b>51,163.63</b>



Engineers...Working Wonders With Water®

Project	07793F.20	Main Plant Rehab-ESDC & Resident Insp	Invoice	0132600
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<b>Billing Limits</b>	<b>Current</b>	<b>Prior</b>	<b>To-Date</b>
Total Billings	51,608.99	1,219,937.12	1,271,546.11
Limit			1,330,925.00
Remaining			59,378.89

**Please Pay This Amount \$51,608.99**

	<b>Current</b>	<b>Prior</b>	<b>Total</b>
<b>Billings to Date</b>	<b>51,608.99</b>	<b>1,219,937.12</b>	<b>1,271,546.11</b>

**Outstanding Invoices**

<b>Number</b>	<b>Date</b>	<b>Balance</b>
0132247	12/16/2013	53,643.63
<b>Total</b>		<b>53,643.63</b>

<b>Construction Scheduling Experts (Dave Somanchi)</b>	
<b>Project No: P3318</b>	<b>Invoice #531 Dated January 5, 2014</b>
<b>Project Name: Marin County Sanitary District</b>	
<b>Client: Carollo Engineers</b>	

<b>Date</b>	<b>Description of Service</b>	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
1/5/2014	Reviewed six updates and prepared summary reports for updates with data dates of 7/24/2013, 8/24/2013, 9/24/2013, 10/24/2013, 11/24/2013 and 12/24/2013	21.43	\$140	\$3,000.00
<b>Total</b>				<b>\$3,000.00</b>

# Const. Scheduling Experts

Construction Scheduling Experts  
 4729 Dickens Drive  
 Granite Bay CA 95746  
 Phone: (916) 396 1588  
 Fax: (916) 920 0429

DATE	INVOICE #
1/5/2014	531

BILL TO	Job Description
Doug Wing, Project Manager Carollo Engineers 2700 Ygnacio Valley Road Walnut Creek, CA 94598	Marin WTP CPM Schedule Review

P.O. NUMBER

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
Scheduling Services	Please see the attached spreadsheet	1		3,000.00
Thank you for your business!			<b>Total</b>	3,000.00



January 15, 2014

Mr. Doug Wing  
Carollo Engineers  
2700 Ygnacio Valley Road, Suite 300  
Walnut Creek, CA 94598

**RE: Sanitation District No. 5 of Marin County Main Plant Rehabilitation Project  
Notice of Final Completion**

Dear Doug:

In accordance with Section 01770.1.12 of the Contract Specifications, this letter is to notify you that as of the date of this letter, the entire work is complete in accordance with the Contract Documents with the exception following punch list items:

- The "drop over pipe covers" for the conduits installed across the walkways on the top level have not been installed. There were discussions as late as early January between the District, Carollo and ACI as to how best to pursue this task. ACI has ordered samples of these products to determine which will work best for this application and anticipate this item being complete in early February.
- The labels on MCC-WP East are different from the other MCC's. Tesco Controls has ordered the replacement labels and will have them replaced by January 31<sup>st</sup>.
- Panel-LCP-05-001 requires a replacement door. This has been received in ACI's office and will be replaced by January 31<sup>st</sup>.

At this time, please schedule the required final inspection and provide written acceptance of the work or notify us of any further issues that require our attention as soon as possible. We can be reached at (916) 924-0344 should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard White", written over a white background.

Richard White  
Project Manager