



TriCo Regional Sewer Utility

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Board of Trustees Meeting Agenda

Monday, January 9, 2023 @ 6:00 p.m.

TriCo WRRF

7236 Mayflower Park Drive, Zionsville, IN 46077

- 1. Roll Call**
- 2. Election of Officers**
 - a. Committee Assignments
- 3. Public Comment**
- 4. Approval of Meeting Memorandum**
 - a. Board Meeting December 12, 2022
 - b. Executive Session December 12, 2022
- 5. Approval of Claims Docket**
- 6. Conflict of Interest**
- 7. Attorney's Report**
- 8. Utility Director's Report**
 - a. 2023 Goals
- 9. Committee Reports**
 - a. Budget & Finance Committee
 - i. C&C Realty Status
 - b. Personnel & Benefits Committee
 - c. Capital & Construction Committee
 - i. Dedications
 - ii. #2202 Lift Station 8 Reconstruction Control Panel
 - iii. #1902 WRRF Expansion Change Order 3
- 10. Old Business**
- 11. New Business**
 - a. RST Sewer Camera Purchase
- 12. Adjourn**



BOARD OF TRUSTEE MEETING

Monday December 12, 2022, 6:00 p.m.

Memorandum

Mr. Mills called the meeting to Order at 6:30 p.m.

ROLL CALL

Present: President Carl Mills, Treasurer Jane Merrill, Secretary Michael McDonald, members, Steve Pittman, Eric Hand, Chuck Ryerson, Amanda Foley, and Jeff Hill. Others in attendance were Utility Director Andrew Williams, Legal Counsel Scott Wyatt, Engineering Manager Wes Merkle, Controller Cindy Sheeks and Administrative Assistant Maggie Crediford

Jeff Kimbell was absent.

PUBLIC COMMENT

There was no one present from the public.

APPROVAL OF MEETING MEMORANDUM

Mr. Ryerson made a motion to approve the November 14, 2022 Board of Trustees Meeting Memorandum. Ms. Merrill seconded the motion, and it was unanimously approved.

APPROVAL OF CLAIMS DOCKET

Ms. Sheeks said the Board would notice a large payment made towards the bond and interest. There were no other unusual expenditures. Mr. Hill made a motion to approve the Claims docket. Mr. McDonald seconded the motion, and it was unanimously approved.

ATTORNEY'S REPORT

Mr. Wyatt made the Board aware that there was an issue with Lineal Contracting. Who damaged a sewer line in March of 2021. TriCo had to seek emergency repairs for that line. The cost of the repair was around \$7,400. Aaron Strong, Collections Superintendent, had been trying to work with them to recover the repair costs. TriCo's attorneys sent them a letter requesting payment within 10 days. If the payment is not made, the matter will be brought before the Board. Since the incident occurred in March of 2021 any legal action will need to be taken before March of 2023.

UTILITY DIRECTOR'S REPORT

Mr. Williams said the Collections staff helped two customers the Wednesday before Thanksgiving by diagnosing issues they were having with their sewer laterals before the holiday. Their efforts and information, and in one instance repair were instrumental in saving both homeowners money.

Billing assistant Jazmine Ealy noticed that properties in billing that were moving towards lien filings were in arrears because the customers were signed up for e-billing only and their bills were not being delivered due to either a wrong or changed email address. She reached out by phone

and was able to collect over \$2,000 in back payments and keep the homeowners from having liens filed on their properties.

Collections staff upgraded the holiday lights at Lift Station 2 this year. Snowflakes were added to the fencing around the property as well as trees with lights. Mr. McDonald and Mr. Mills asked if there were other lift stations that could be decorated as well. Mr. Mills pointed out the station at Austin Oaks had high visibility. Mr. Williams said staff would look into it.

Mr. Williams invited the Board members to attend the Christmas luncheon on Wednesday, December 21, 2022, at 11:00 a.m. There are new activities planned along with an Ugly Sweater Contest.

A picture from the ribbon cutting made it into the Current in Zionsville. Mr. Williams provided the Board members with a copy.

Mr. Williams said there will be another Board appreciation dinner. Most likely in February or March once the Holidays are past.

Mr. Merkle is finalizing the change order on the plant project, there will need to be a C&C meeting to review those numbers. Mr. Hill said he will be out of town on January 3, 2023 so there would not be a quorum for Capital and Construction. Mr. Williams said the change order could be presented straight to the Board at the January meeting if that is agreeable to everyone. Mr. Mills said to add it as an agenda item to the January Board meeting. Mr. Williams said staff expects the project to end up under the original budget.

Mr. McDonald asked if there was a resolution to the issue of where to store the Cleaning Truck in the winter. Mr. Williams said indoor storage had not yet been acquired, but the truck is currently winterized and parked out back. It can be used in an emergency, but there are no scheduled cleanings in the winter months. Fluid Waste can be used as a resource as well, they have heated lines on their trucks.

COMMITTEE REPORTS

Personnel & Benefits Committee

Mr. Hand made a motion to approve Salary Ordinance 12-12-2022. He read "An Ordinance establishing updated positions and salaries for TriCo Regional Sewer Utility (hereinafter "Utility") staff and other salary related matters." Mr. Ryerson seconded the motion, and it was unanimously approved.

Mr. Hill made a motion to approve a 4% increase to the Utility Director's salary beginning January 1, 2023. Mr. Pittman seconded the motion, and it was unanimously approved.

Budget & Finance Committee

Ms. Merrill made a motion to approve the proposed 2023 Operating Budget. Mr. McDonald Seconded the motion, and it was unanimously approved.

Capital & Construction Committee

Ms. Foley made a motion to accept the Dedication of Towns of Appaloosa Sections 1A and 1B sanitary sewers. Mr. Hill seconded the motion, and it was unanimously approved.

OLD BUSINESS

Mr. Hill made a motion to remove the previously issued \$2,500 fine from abeyance and assess it to C&C Realty's next bill for lack of compliance and remediation efforts, further fines, and options to deal with this issue will be discussed at future meetings until the issue is resolved. Ms. Merrill seconded the motion, and it was unanimously approved.

Mr. Williams said he and Mr. Odom are trying to meet with the Ritz Charles. They also are having issues with violating TriCo's FOG Ordinance.

NEW BUSINESS

Mr. Williams said the Utility switched to Cartegraph Asset Management software in 2022. The Annual License Agreement is up for renewal. The cost of the 2023 contract is \$52,513.79 which is a 3.5% increase from 2022. Mr. McDonald made a motion to approve the Cartegraph Asset Management Software Agreement for 2023. Ms. Merrill seconded the motion, and it was unanimously approved.

Mr. Mills thanked Mr. Merkle for helping with their neighborhood management company who had a sewer issue in another area, and he was very helpful to them.

Mr. Mills encouraged everyone to come to the employee holiday lunch.

ADJOURNMENT

Mr. Mills moved to adjourn the meeting. Ms. Merrill seconded the motion and the meeting adjourned at 7:04 p.m.

The next Board of Trustees Meeting is scheduled for Monday, January 9, 2023, at 6:00 p.m.

Respectfully submitted,



Andrew Williams
Utility Director

Approved:

_____ as Presented
_____ as Amended

_____, Michael McDonald, Secretary

_____, Carl Mills, President



Executive Session of the Board of Trustees

Monday, December 12, 2022, 5:30 p.m.

Memorandum

Mr. Mills called the meeting to Order at 5:30p.m.

ROLL CALL

Present: President Carl Mills, Treasurer Jane Merrill, Secretary Michael McDonald, members, Steve Pittman, Eric Hand, Chuck Ryerson, Jeff Hill, and Amanda Foley. Utility Director Andrew Williams was invited in near end of meeting.

The Board discussed the Utility Directors Performance review in compliance with (IC 5-14-1.5-6.1(b)(9). Mr. Mills closed the Executive Session. It is certified that no matters other than the Utility Director's job performance were discussed in the Executive Session.

Respectfully submitted,

Michael McDonald
Secretary

The TriCo Connection

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MONTHLY NEWSLETTER

FINANCIAL UPDATE– CINDY SHEEKS

In November 2022, total revenue was \$710,280. It is \$25,000 below revenue from October 2022, and \$2,000 below sales in November 2021. YTD the revenue collections are \$7,481,448 of the annual budget of \$7,759,350, or 96.42%. Residential income was \$452,875 during the month, \$21,850 higher than November 2021. Commercial sales totaled \$212,255 in November 2022, \$37,000 below sales in November 2021. The Other Revenue category (late fees, application fees, plan review fees) was \$21,109 in November. The Other Income category (interest, gains on asset disposal, miscellaneous revenue) was \$24,040 during the month.

Total operating expenses were \$533,495 in November. YTD spending is 95.15% of the 2022 Operating Budget of \$5,803,897. Total November 2022 spending was \$33,986 higher than expenses in November 2021. Wages and benefits spending totaled \$229,978 during the month. Administration spending was \$53,975 during November. Treatment costs totaled \$165,961 and collection costs totaled \$83,580 during the month.

Net income in November was \$34,505 after depreciation and amortization of CIAC. November 2021 net income totaled \$89,411.

Spending Breakdown in November:

Wages	43.11%
Administration	10.12%
Treatment Costs	31.11%
Collection Costs	15.67%

Interceptor fees were collected in November totaled \$11,567, and YTD collection totals \$304,949. EDU fees collected during November were \$43,993. YTD revenue in the Plant Expansion fund is \$658,336.

Cash generated for November shows an decrease in all funds of \$21,902. Capital spending during the month was for list station pump replacements, LS 8 relocation, LS 16 relocation, LS 1 wet weather pumps, and LS 26 Force mail parallel. Cash on hand as of November 30, 2022, was \$13,017,034. The balances in the funds are listed below:

Operating	\$8,693,231
Interceptor	\$65,810
Plant Expansion	\$2,304,626
Operating Reserve	\$519,252
Reserve for Replacement	\$-390,795
<u>2020 Bond Funds</u>	<u>\$1,824,910</u>
Total	\$13,017,034

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Calendar of Events

January 9	Board Meeting	6:00 p.m.
January 25	P&B Meeting	7:30 a.m.
January 27	B&F Meeting	7:30 a.m.
February 6	C&C Meeting	4:30 p.m.

ENGINEERING & CONSTRUCTION - WES MERKLE

Staff completed 319 locates, 14 I&I inspections and 29 lateral inspections in December. There were no failed I&I inspections. 1,422 locate requests were received and reviewed. Brandon completed lateral and I&I inspections and began assisting Jeff with data entry of older lateral inspections into asset management. Nate completed most locates. He is also looking into outreach opportunities with Indiana 811 where outside funding may be available.

Eric inspected sewer installation at Jackson's Grant Village Section 1. He followed up on lateral installation and punch list work at The Edge apartments, Asherwood, Reserves at Springmill, and Jackson's Grant Section 8. He also completed warranty and repair inspections for numerous projects. Jeff reviewed as-built data on the plant expansion project, added FOG and low pressure sewer system data into Cartegraph, and worked with Collections to improve data collection forms used in the field.

Ryan reviewed plans for Steadman, Flora, Union Woodlands, The Farm, and Lift Station 16. He continues to assist Shaun and Drew on long needed FOG improvements at C&C Realty/Jacques and Ritz Charles. He continues coursework for IWEA's Leadership Development Institute. Wes continued reviewing change requests and closeout paperwork on the plant expansion project and negotiated the final construction contract change order with Thieneman. This included 45 items regarding differing site conditions, additional staff needs, and value engineering. The proposed change order reduces the final contract amount by nearly \$246,000.

Punch list work continued on the plant expansion project. Staff met with the grit washer manufacturer to inspect the equipment and discuss performance challenges; the manufacturer believes excessive rags are preventing the equipment from functioning properly. Loren thoroughly cleaned screening equipment as well as the grit washers, adjusted setpoints, and put the equipment back in service. Collections staff removed macerators from Lift Station 2 (106th/Spring Mill) where approximately half of the plant's flow originates, which should reduce shredded rags entering the plant and allow the screens to capture more of this unwanted material. More substantial effort is needed to prevent rags from entering our collection system in the first place.

Lykins may soon start wet well installation at Lift Station #8. Control panel design was completed for Lift Station #8 and quotes were received. Pyramid plans to complete work on new wet well piping, pump installation, and wet well lining at Lift Stations 1 and 21 the last two weeks of January. All remaining pump equipment has been received. Barth Electric installed the new ATS at Lift Station #11. Generator delivery will drive the rest of the work which also includes Lift Stations #14 and #26 - anticipated this spring.

Lift Station #16 final plans and specifications were completed; public bidding will be completed in January. Staff coordinated scope of work and scheduling at the site with the development team. The site should be available to our construction contractor this spring after the developer completes site grading and access roads.

COLLECTIONS UPDATE– AARON STRONG

On-call staff weathered the frigid holiday temperatures with overnight power outages at Lift Stations #2, #3, #20 and #24. AES Indiana worked on the aerial span just outside of Lift Station #2 throughout the night to restore power. Tristin had the new Atlas Copco generator in tow and brought lift stations back online as needed. Additionally, multiple stations lost communication due to batteries in the Uninterruptible Power Supplies (UPS) getting too cold. These issues were mitigated by moving the telemetry radio and PLC's to the surge side of the UPS, and bypassing the battery. Once temperatures recovered, staff moved the effected stations back to battery backup. UPS's batteries at lift stations will be preventively replaced in the coming week.

Dan and Tristin spearheaded the annual cleaning and organization of the Utility's storage barn. Three metal recycling dumpsters and one 10-yard trash dumpster were utilized in the cleanup. Three surplus generators were placed on the auction site. One generator sold and the remaining two were extended an additional two weeks.

Staff is gearing up for contracted work at Lift Station #1. The station will be bypassed for approximately one week while the contractor replaces base elbows, discharge piping and coats the wet well with a spray-on liner. New 335 HP pumps will be installed with updated telemetry. Collections Staff will help oversee the operations and monitor the station throughout the duration of the bypass.

Tristin and Dan have been working on a manhole bolt down project in the Village of West Clay replacing bolts and re-taping threads as needed. A total of 84 manholes are included in the scope of this project. Matt and Brian rounded out the month by updating the Utility's inventory of pump repair parts.

Holiday Party and Yeti Adventures-

TriCo ended the year with its annual Holiday Party. This year leading up to the event staff participated in a Yeti Adventure impromptu team building game. Ryan Hartman won the first annual Ugly Sweater Contest brining home the ring and sash with his mother-in-law's night gown.



Aaron and Maggie (Yetis Revealed)

Yeti Adventures

SAFETY UPDATE - LOREN PRANGE

No injuries reported this month and we are at 337 days without a loss time accident.

Loren, Scot, and Maggie attended the monthly IWEA safety meeting.

Our facility team members completed a PPE evaluation for the Pretreatment building to help complete preventive maintenance on new equipment added during expansion. One item we added was a face shield when checking flush nozzles on the pretreatment screens. When we open the inspection plate there is potential for the nozzle spray to reach our team member. We also added eye wash bottles to that building.

Safety Resources will continue to provide in-house safety training for 2023.

PLANT UPDATE- SCOT WATKINS

Plant staff gave a tour of the facility to interns from the Consulate General of Denmark which also included a former employee at Stjernholm A/S, our new grit washing equipment manufacturer.

A plug valve has failed in our transfer vault causing transfers of biosolids to take longer. New parts have been ordered to repair the valve. With the extreme cold, as low as -10° with -35° windchills, the staff limited outside activities when possible. The cold did cause a few operational issues. The odor control pumps failed and would not restart, resulting in a frozen/busted pipe. After the thaw, the pipe was repaired and put back into service. Ice also formed on the clarifier beaches and had to be broken up by hand to keep the skimmer arms from over torquing. New chemical lines were run underground to help protect them from low temps and should be online in the next few weeks.

One hundred and twenty-four pump outs have been logged and accounted for about 42,000 gallons of FOG being prevented from entering the system this month. Forty-eight inspections were completed with seven follow-up inspections. Staff is working with several other facilities to bring them back into compliance with the SUO.

The laboratory performed 434 CBOD5 tests, 282 Total Suspended Solids (TSS) tests, 207 Phosphorus & Ammonia tests, and 51 Total Nitrogen tests. Monthly Method Detection Limit studies were completed on TSS, Phosphorus and Ammonia. Our quarterly TOX testing was performed, and all results passed. All laboratory SOPs and QA/QC charts and paperwork have been updated for 2023. Staff attended the IWEA Laboratory Committee, Wastewater Challenge and IWEA annual meetings.

As an additional accomplishment for 2022, with the laboratory exclusively using HACH WIMS for data entry, TriCo has gone completely paper free for all bench sheets saving staff time and preventing transcription errors.

Birthdays

Jazmine Ealy January 30

Anniversaries

Wes Merkle	January 14	10 Years of Service
Brandon Woolf	January 27	3 Years of Service

Selected Statistics 2022	January	February	March	April	May	June	July	August	September	October	November	December	2022 Monthly Average	2022 YTD	2021 Total Through December
Maintenance Information															
Lateral Inspections	26	9	22	18	20	31	20	37	24	21	28	29	24	285	297
Certified I&I Inspections	10	30	14	27	26	30	24	45	32	43	13	14	26	308	430
Failed I&I Inspections	0	2	0	1	0	0	0	0	0	0	0	0	0	3	3
Sewer Locates	219	207	269	252	283	310	308	407	300	235	399	319	292	3,508	4,332
Manholes Added	9	2	0	0	0	3	1	0	0	21	19	0	5	55	116
Total # of Manholes	6,011	6,013	6,013	6,013	6,013	6,016	6,017	6,017	6,017	6,038	6,057	6,057	N/A	6,011	6,002
Manholes Inspected	0	0	332	460	817	458	83	3	0	0	6	49	184	2,208	1,981
Feet of Sewer Added	0	360	0	0	0	852	49	35	0	0	4,772	0	506	6,068	72,297
Total Footage of Sewers	1,734,749	1,735,109	1,735,109	1,735,109	1,735,109	1,735,961	1,736,010	1,736,045	1,735,770	1,742,104	1,746,876	1,746,762	N/A	1,734,749	1,734,749
Feet of Sewer Televised	19,395	13,404	22,738	42,401	17,769	35,917	18,659	14,097	20,116	25,935	25,277	4,738	21,704	260,446	326,797
Acoustic Sewer Inspection	0	0	0	23,680	0	49,700	58,920	20,330	0	0	0	0	12,719	152,630	0
Feet of Sewer Cleaned	345	0	225	1,112	9,398	367	0	10,488	2,303	4,342	378	423	2,448	29,381	13,157
Overflows	0	0	0	0	1	0	0	0	0	0	0	0	0	1	3
Feet of LPFM Cleaned	0	0	0	0	0	0	0	0	34,968	0	0	0	2,914	34,968	6,953
LS 1 to Carmel Utilities															
Rainfall/Precipitation (inches)	1.11	3.83	6.38	4.01	5.14	2.35	4.05	5.35	2.96	1.65	1.48	2.74	3.42	41.05	39.50
Total Flow (gallons)	54,400,461	61,672,348	74,921,000	55,623,631	60,065,103	32,161,235	31,110,711	31,564,320	30,745,974	29,092,652	27,102,000	29,506,236	43,163,806	517,965,671	615,774,700
Max Daily Flow (gallons)	2,356,132	3,605,548	3,899,994	2,729,966	3,076,524	1,248,044	1,145,262	1,243,030	1,437,002	1,296,525	996,000	1,308,766	N/A	3,899,994	3,150,941
Average Daily Flow (gallons)	1,754,854	2,202,584	2,416,806	1,854,121	1,937,584	1,072,041	1,003,604	1,018,204	1,024,866	819,486	903,000	951,814	1,413,247	N/A	N/A
Min Daily Flow (gallons)	1,469,900	1,548,862	1,708,760	1,492,640	1,103,140	970,780	633,046	919,919	908,202	939,473	820,000	826,305	N/A	633,046	697,447
TriCo WRRF															
Total Flow (gallons)	89,980,000	81,455,000	99,793,000	74,890,000	85,598,000	101,730,000	100,610,000	105,560,000	97,329,000	92,400,000	75,033,000	71,530,000	89,659,000	1,075,908,000	962,498,321
Max Daily Flow (gallons)	3,659,000	4,321,000	6,192,000	3,612,000	3,807,000	3,930,000	3,707,000	4,560,000	4,520,000	3,310,000	3,117,000	2,814,000	N/A	6,192,000	5,351,000
Average Daily Flow (gallons)	2,902,581	2,909,107	3,219,129	2,496,000	2,761,000	3,390,000	3,250,000	3,410,000	3,350,000	3,070,000	2,501,100	2,307,000	2,963,826	N/A	N/A
Min Daily Flow (gallons)	2,206,000	1,715,000	2,750,000	1,859,000	1,814,000	3,110,000	2,826,000	3,000,000	3,090,000	2,740,000	2,167,000	2,181,000	N/A	1,715,000	1,259,000
Total Flow to Both Plants	144,380,461	143,127,348	174,714,000	130,513,631	145,663,103	133,891,235	131,720,711	137,124,320	128,074,974	121,492,652	102,135,000	101,036,236	132,822,806	1,593,873,671	1,578,273,021
Biosolids Handling (gals)															
Wasted (Biosolids)	869,200	1,176,000	1,133,000	976,000	1,293,000	1,341,000	1,083,000	1,076,000	1,115,000	1,183,000	1,183,000	1,040,000	1,122,350	13,468,200	15,478,290
Dewatered	170,000	265,000	506,880	370,320	538,160	563,900	439,540	390,980	313,540	168,520	236,910	623,100	382,238	4,586,850	6,209,900
Digested Sludge Withdrawn	695,000	728,000	773,000	771,000	762,000	808,000	800,000	956,000	866,000	901,000	861,000	1,400,000	860,083	10,321,000	9,407,000
Customer Information														16,415	
New Sewer Service Accounts	27	16	10	30	26	16	19	7	10	25	17	31	20	234	191
Permits Issued	24	21	26	19	29	12	5	10	13	9	17	28	18	213	277



MEMORANDUM

To: Board of Trustees
From: Wes Merkle
Date: January 4, 2023
Subject: Dedications

Albany Village and Carmel Science and Technology CS&T Block 10 Flex Space sanitary sewers are complete and ready for dedication. Staff recommends acceptance of these sewers.

Recommended Action: Accept the dedication of Albany Village and Carmel Science and Technology CS&T Block 10 Flex Space sanitary sewers.



MEMORANDUM

To: Board of Trustees

From: Wes Merkle

Date: January 4, 2023

Subject: #2202 Lift Station 8 Reconstruction Control Panel

The Lift Station 8 Reconstruction project, now under construction, includes a new control panel to be procured by TriCo and installed by the construction contractor. Donohue Associates designed the new control panel. The following quotes were received to build the control panel:

Shambaugh & Sons, LP	\$69,475
Complete Controls, Inc.	Did Not Quote
Toric Engineering	Did Not Quote

Delivery is anticipated in 6 months, which fits into the construction contractor's work schedule. Shambaugh's quote is nearly 10 percent more than the control panel for Lift Station 14, which was approved last fall; much of the difference can be attributed to components that will power larger pumps as well as ongoing price increases and lacking availability on certain components.

Recommended Action: Approve purchasing new control panel from Shambaugh & Sons for \$69,475.



MEMORANDUM

To: Board of Trustees

From: Wes Merkle

Date: January 4, 2023

Subject: #1902 WRRF Expansion Change Order 3

While plant expansion project construction was underway, staff and the construction team needed to occasionally adjust scope of work due to (1) site conditions that were found to be different than anticipated, (2) minor needs identified by staff after construction began where the contractor already had necessary personnel and equipment on site to do the work, and (3) opportunity to save cost by reducing or altering scope of work while still accomplishing the intended result. In several cases, reimbursement was due for costs unnecessarily incurred by TriCo over the course of this project. Staff worked with generator contractor Thieneman to propose pricing for the following changes, which we believe encompasses all outstanding changes for this project:

- Unmetered power consumption (deduct \$1,000)
- Water stop substitution (PCO-30/RFI-38; deduct \$8,661)
- Conduit under pavement for future irrigation (5/2/21 letter; add \$1,871)
- Repair biosolids dumpster rails (5/2/21 letter; add \$1,783)
- Alternate 2 leave existing stone base (PCO-19; deduct \$11,540)
- Temporary surface paving ADA modifications (PCO-19; add \$3,390)
- Substitute native soil for granular fill under pavement excluding utility support and trenches (PCO-28; deduct 33,214)
- Use existing panel door for UV system control center (deduct \$500)
- UV/post aeration bypass pump capacity reduction (deduct \$5,000)
- Delete barbed wire from new security fence at front parking lot (deduct \$1,000)
- Orbal RAS pump station repair & valve replacement (5/2/21 letter; add \$3,523)
- Pretreatment building/grit structure slab interface modifications for as-built conditions (PCO-16; add \$2,217.51)
- Leave/grout RW line at grit structure (deduct \$2,500)
- Add control/communications wire run to each gate operator, conduit to gates rerouted outside instead of through office building, communications wire extended to IT room (4/27/21 letter; net no cost change)
- Reroute power & control conduit/wiring to old VLR and Orbal flow meters in conflict with new RW line (PCO-18; add \$10,000)

- Repair wiring at Digesters 2 & 5 (4/27/21 letter; add \$491.50)
- Reimbursement for additional structural engineering time related to concrete quality issues (deduct \$10,134)
- Replace Orbal inner ring east shaft & bearings (5/2/21 letter; add \$10,219)
- Remove existing concrete liner and level floor of east UV channel, relocate duct bank south of UV in conflict with new SE line, provide additional UV spare parts equivalent to excess wear in 2021 disinfection season (RFI-54, PCO-17, PCO-25; net no cost change, add 259 days for Part 1)
- Modified demolition of north partition wall in effluent flume channel (deduct \$1,000)
- Backup generator fuel consumption during plant power shutdowns on 5/4 & 5/19/21 (deduct \$2,000)
- Reimbursement for dust cleanup of blowers and MCC-50 gear (deduct \$650)
- Reimbursement for replacing failed VLR blower motor and VFD due to lacking dust control (deduct \$19,905.72)
- Reduced quantity of ML line installed to Orbal (deduct \$4,000)
- Conduit into new ATS changed from rigid to Schedule 80 PVC (deduct \$5,400)
- Remove failed south drying bed concrete slab (5/2/21 letter; add \$3,642)
- Reimbursement for dust cleanup of blowers (deduct \$965)
- AT&T pedestal relocation (5/2/21 letter; add \$854)
- Lower subgrade, add geogrid and stone for new access drive over soft soils south of VLRs 1-2 (PCO-35; add \$10,700)
- Add lintel few new doorway at pretreatment building south elevation (PCO-36, RFI-72; add \$3,328)
- Masonry modifications to pretreatment building south elevation (PCO-31, RFI-65; add \$7,690)
- Added quantity of WAS line due to conflict with existing utilities (5/4/21 letter; add \$8,199)
- Modify drainage west of pretreatment building and grit structure (5/4/21 letter; add \$2,438)
- Modify new RW line for influent splitter tie-in (5/4/21 letter; add \$3,500)
- Reimbursement for additional submittal review time (deduct \$9,482.50)
- Clean and paint corroded steel walkway support framing in VLR 3 (PCO-34; add \$5,177)
- Clean and paint corroded steel framing in VLRs 1 & 2 (add \$2,000)
- Old VLR anaerobic zone mixer cable repairs (add \$486)
- Repair mud valve in VLR 2, replace failed rotor discs in VLRs 1-4 (add \$2,500)
- Reinstall baffle under elevated slab and repair aeration grid piping in VLR 3 (add \$2,880)
- Reimbursement for staff time on pretreatment screen brush failure (deduct \$1,000)
- Delete two plug valves from grit pump room (deduct \$2,240)
- Unused or additional unit price work quantities for concrete crack injection, concrete repair (pretreatment building channels and influent splitter), surface and full depth pavement replacement, grit removal from old VLRs, masonry repair (net deduct \$93,025.26)
- All additional work herein (add 115 days for Part 1A and add 70 days for Part 2)

- Reimbursement for additional costs incurred by TriCo – Carmel treatment, inspection, consultants (deduct \$120,000; add 60 days for Part 1A)

The original substantial completion deadline for the overall project was October 29, 2021. An additional 49 days were previously approved for additional work items, and an additional 115 days are recommended for remaining work items. The project reached substantial completion on June 10, 2022, at which point all equipment was online and operational. Thieneman offered \$120,000 to account for completing the work 60 days over the allotted time, which approximately covers the resulting costs incurred by TriCo. Incurred costs include payment to Carmel Utilities for higher flows, consulting and inspection fees, and staff time.

The original contract amount was \$21,937,000. Two previously approved change orders reduced the contract amount by \$314,604.33 to \$21,622,395.67, which included value engineering efforts and other modifications. The proposed Change Order 3 reduces the final contract amount by \$246,328.27 to \$21,376,067.40.

In 2020, TriCo included in its project budget a standard 5-percent construction change order contingency of \$1.1 million. Instead, TriCo will finish construction nearly \$560,932 or 2.6-percent below the original contract amount.

Recommended Action: Approve Change Order 3 to the plant expansion construction contract for a net credit of \$246,328.27, reducing the final contract amount to \$21,376,067.40.



MEMORANDUM

To: Board of Trustees

From: Aaron Strong

Date: January 4, 2023

Subject: CCTV Camera/Tractor

The 2023 Capital Budget includes \$338,000 for a new truck and CCTV inspection camera set-up. TriCo currently operates an RST CCTV camera and tractor system mounted on a 2015 Ford F550 diesel chassis with 22,000 miles. The current RST camera/tractor has inspected nearly 3,000,000 feet of sewer main throughout the Utility. TriCo also has a lateral launch tractor and RST camera that is used less often but is instrumental for inspecting problems in laterals.

Staff worked with three manufacturers to conduct on-site working demonstrations in TriCo's sewers and received quotes for new truck and CCTV inspection camera set-ups. During the demonstrations, each manufacturer alluded to the fact that there will be failures due to the harsh environment in which the equipment operates. Due to TriCo's aggressive CCTV inspection program, the lack of loaner cameras when camera/tractor repairs are needed has been TriCo's biggest obstacle. Considering this factor, staff procured a quote to outfit our existing truck with a new winch, camera, and tractor so that TriCo would be able to use our current camera set-up as a spare. This will also allow for the continued use of the RST lateral launch camera.

Staff recommends and finds it in TriCo's best interest to purchase a new RST camera, tractor, and winch to operate on our existing CCTV truck for \$54,888.

Quotes were as follows:

2022 Subsite E450 Buildout	\$256,000
2022 Subsite Ford Transit Buildout	\$266,999
2021 Envirosight Ford Transit Buildout	\$324,095
2023 Ibak Ford E450 Buildout	\$277,696
Ibak retrofit in Trico's F550	\$197,015
RST Transtar Tractor/Camera/Winch	\$54,888

Recommendation: Award Eco Infrastructure Solutions a purchase order in the amount of \$54,888 to procure camera equipment.