



City of Morro Bay
Water Reclamation Facility Project

MONTHLY REPORT MARCH 2019

DRAFT | April 2019





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Eric T. Casares,
April 2019,
State of California, PE.73351

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Section 1

PROGRAM OVERVIEW

1.1 Program Status

All components of the Water Reclamation Facility Project (Project) are currently in progress. City staff and the Program Manager (Carollo) are actively working with the design-build team and the pipeline designer to advance the design of the Water Reclamation Facility (WRF) and Conveyance Facilities, respectively. City staff and Carollo are also actively working with the hydrogeologist to better characterize the Lower Morro Groundwater Basin and identify the preferred injection location. Once the final injection location is confirmed, design of the Recycled Water Facilities (i.e., injection wells) can begin.

1.2 Accomplishments

Accomplishments over the last month include working with the design-build team to finalize potential change orders (PCOs) as a result of the Basis of Design Report (BODR) development. Preliminary results of the Phase 1 work being done by the hydrogeologist (GSI) have also been presented to City staff and Carollo. Preliminary results indicate that injection of purified water and extraction by the City's existing wells allows the City to benefit from its entire allocation of 851 acre-feet per year (AFY) without inducing seawater intrusion and lowering the nitrate concentration below the drinking water maximum contaminant level (MCL). Also in the last month, Carollo has been working to update the project budget. Based on previous presentations to the City Council, WRFCAC, and CFAC, the Carollo will complete an in-depth review of the project budget on a quarterly basis. The updated budget was also needed by the City's Finance Department as part of the City-wide fiscal year 2019/2020 budget development.

1.3 Looking Forward

Upcoming activities include bringing a list of PCOs to the WRFCAC and City Council for consideration. It is anticipated that this will occur at the first meeting in May 2019. Carollo is also planning to bring the results of the Phase 1 hydrogeology results to WRFCAC and City Council.

1.4 Challenges

Challenges for the Project are primarily contained to the land use permitting process. In January 2019, City staff was provided direction from City Council to pursue a consolidated permit through the California Coastal Commission (CCC). The original plan was to bring the permit to the CCC meeting in April 2019, but was then moved to May 2019. Based on input received by the CCC from the community at the March 26, 2019 City Council meeting, the permit is now on the CCC agenda in July 2019 when the meeting will be held in San Luis Obispo.

1.5 Performance Measures

A set of five Key Performance Indicators (KPIs) were established to readily measure the progress of the Project. These KPIs represent various success factors associated with the WRF program management and delivery that were established by Carollo and City of Morro Bay staff and are summarized as Table 1. The Project's performance is also illustrated graphically in Figure 1 and Figure 2.

Table 1 WRF Project Performance Measures

Performance Measure	Data	Target	Current	Delta	Status	Ⓞ	Ⓢ	Ⓡ
1: Total Project Costs	Total Program Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$125.9 M	\$124.4 M	-1.2%	Ⓞ	Estimated cost >= 5% below target budget	Estimated cost within 5% of target budget	Estimated cost > 5% above target budget
1.1: WRF Costs	On Site WRF Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$77.1 M	\$77.9 M	1.0%	Ⓞ	Estimated cost >= 5% below target cost	Estimated cost within 5% of target cost	Estimated cost > 5% above target cost
1.2: Conveyance Facilities Costs	Conveyance Facilities Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$26.3 M	\$29.4 M	11.8%	Ⓡ	Estimated cost >= 5% below target cost	Estimated cost within 5% of target cost	Estimated cost > 5% above target cost
1.3: Recycled Water Facilities Costs	Off Site Injection Facilities Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$12.1 M	\$5.7 M	-52.9%	Ⓞ	Estimated cost >= 5% below target cost	Estimated cost within 5% of target cost	Estimated cost > 5% above target cost
1.4: General Program Management Costs	Program Management Projected Costs versus Actual Cost-to-Date (thru 3/31/19)	\$11.47 M	\$10.2 M	10.9%	Ⓡ	Estimated cost >= 5% below target cost	Estimated cost within 5% of target cost	Estimated cost > 5% above target cost
2: Conveyance Pipeline Installed	Feet of conveyance pipeline installed (thru 3/31/19)	18,500 LF	0.0 LF	0.0%	Ⓞ	<= 5%	> 5% and <=7.5%	> 7.5%
3: Compliance Date Countdown	Days Remaining to Compliance Date (as of 3/31/19)	1,795 days	1,321 days	-474 days	Ⓞ	<=98%	> 98% and <=90%	> 90%

Section 2

PROJECT COSTS

2.1 Project Budget

The overall budget status for the Project is summarized in Table 2. The top half of the Table provides a summary of total estimated Project costs, including original and current estimated costs for the entire Project. The bottom half of Table 2 shows the total amount of work currently under contract and provides a summary of current and total charges.

Table 2 **WRF Project Overall Budget Status (thru March 2019)**

Summary of Total WRF Program Cost	
Original Baseline WRF Project Budget ⁽¹⁾	\$125,938,000
Current WRF Project Budget	\$124,438,000
Percent Change (Current versus Original)	-1.2%
Percent of Current WRF Project Budget Contracted	60.5%
Percent of Current WRF Project Budget Expended	6.8%
Percent of Current WRF Project Budget Planned to be Expended	15.6%
Summary of Contracted Work	
Total WRF Project Contracted Amount	\$75,294,895
Total Expenditures to Date (thru 3/31/19 invoices)	\$7,035,350
Remaining WRF Project Contracted Amount	\$68,259,545

Notes:

(1) Developed in the spring of 2018 as the basis of the approved rate surcharge that will take effect in July 2019.

2.2 Project Cash Flow

Presented in Figure 1 are the projected and actual expenditures for the Project through March 2019 compared to the baseline budget developed in 2018 as the basis for the rate surcharge. The line graph shows the cumulative values for the project and the bars show the discrete monthly values. For the time period before January 2019, the bars show annual values. Because the forecasted cash flows are based on anticipated project delivery schedules, the relationship of projected cash flows to actual expenditures provides an indication of schedule status.

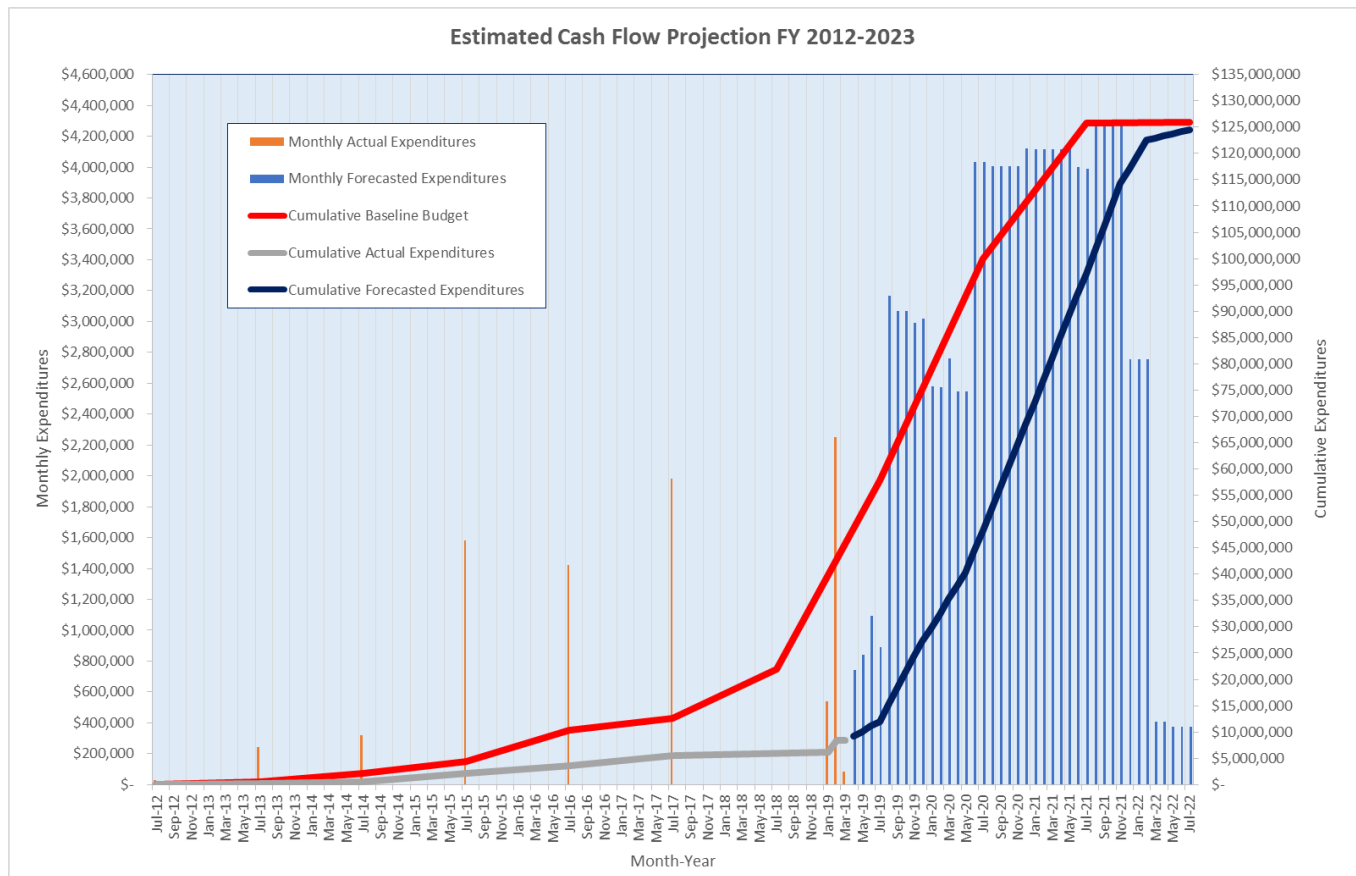


Figure 1 Program Cash Flow Projections and Actual Expenditures

Table 3 summarizes the cost-to-date and contracted amounts for each of the elements of the Project. This table also provides the current cost estimate for each project. Detailed information on the individual elements of the Project is provided in Section 7 of this Report.

2.3 Project Cost Summary

Table 3 WRF Project Cost Summary (through March 2019)

Project	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)	Total Project Cost (Est.) ⁽¹⁾	Cost Expended to Date (%)
General Program	\$6,041,480	\$6,190,871	\$4,522,488	\$11,471,480	52.7%
WRF	\$1,654,952	\$67,234,512	\$1,654,952	\$77,858,063	2.1%
Conveyance Facilities	\$549,733	\$1,360,564	\$549,733	\$29,457,010	1.9%
Recycled Water Facilities	\$205,677	\$508,947.00	\$150,287	\$5,665,677	3.6%
Total	\$8,451,843	\$75,294,894	\$7,035,349	\$124,452,231	6.8%

Notes:

(1) Cost includes the total anticipated cost for each element of the Project.

2.4 Detailed Project Costs

The following tables show the detailed costs to date for active contracts for each element of the Project.

Table 4 General Project Activities Cost Summary (through March 2019)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)	Total Project Cost (Est.) ⁽¹⁾	Cost Expended to Date (%)
ESA	\$349,999	\$376,604	92.9%	\$396,604	88.2%
Far Western	\$84,385	\$124,644	67.7%	\$124,644	67.7%
Kestrel	\$171,350	\$219,872	77.9%	\$319,872	53.6%
Carollo Engineers, Inc.	\$614,031	\$1,898,844	32.3%	\$5,298,844	11.6%
JSP Automation	\$21,778	\$63,500	34.3%	\$163,500	13.3%
Total	\$1,241,541	\$2,683,464	46.3%	\$6,303,464	19.7%

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

Table 5 WRF Cost Summary (through March 2019)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)	Total Project Cost (Est.) ⁽¹⁾	Cost Expended to Date (%)
Overland Contracting	\$1,654,952	\$67,234,512	2.5%	\$69,734,512	2.4%
Total	\$1,654,952	\$67,234,512	2.5%	\$69,734,512	2.4%

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

Table 6 Conveyance Facilities Cost Summary (through March 2019)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)	Total Project Cost (Est.)(1)	Cost Expended to Date (%)
Water Works Engineers (WWE)	\$549,733	\$1,360,565	40.4%	\$1,610,565	34.1%
Total	\$549,733	\$1,360,565	40.4%	\$1,610,565	34.1%

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

Table 7 Recycled Water Facilities Cost Summary (through March 2019)

Consultant / Contractor	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)	Total Project Cost (Est.)(1)	Cost Expended to Date (%) / Percent Complete
GSI	\$150,287	\$351,000	42.8%	\$451,000	33.3%
Total	\$150,287	\$351,000	42.8%	\$451,000	33.3%

Notes:

(1) Cost includes planned or anticipated amendments to active consultant agreements.

2.5 Change Orders

No changes orders have been accepted in 2019 for any of the elements of the Project.

2.6 Reimbursement from Funding Agencies

No reimbursements from funding agencies have been completed in 2019.

Section 3

PROJECT SCHEDULE

A summary of the Project schedule is presented in Figure 2.

3.1 Project Construction Milestones

Presented in Table 8 are the construction milestones for each element of the Project.

Table 8 [Project Construction Milestones](#)

Project Name	Start of Construction		End of Construction		Permit Compliance Date	
	Planned	Actual	Planned	Actual	Planned	Actual
WRF	August 09, 2019		June 09, 2022		February 28, 2023	
Conveyance Facilities	July 21, 2021		June 21, 2022		NA	NA
Recycled Water Facilities	May 11, 2020		November 19, 2021		NA	NA



Section 4

DESIGN AND PROCUREMENT

4.1 Design Status

No new design contracts for the Project were executed in 2019. A summary of the existing design contracts is included in Table 9 below.

Table 9 Procurement Status (through March 2019)

Project Name	Initial Contract Amount	Amount Expended	30%	60%	90%	Final
WRF	\$4,821,229	\$1,654,952	✓			
Conveyance Facilities	\$1,170,894	\$549,733	✓			
Recycled Water Facilities	\$0	\$0				

4.2 Procurement

No procurements were performed during 2019. Table 5 presents a summary of the procurement activity for the Project.

Table 10 Procurement Status (through March 2019)

Project Name	Bid Advertisement Date	Bid Opening Date	Council Award Date	Notice to Proceed Date	Consultant
WRF	January 24, 2018	May 08, 2018	October 23, 2018	November 01, 2018	Overland Contracting (Filanc-Black & Veatch)
Conveyance Facilities	January 24, 2018	May 08, 2018	October 23, 2018	November 01, 2018	Water Works Engineers
Recycled Water Facilities	Project element to be bid in May 2021				

Section 5

CONSTRUCTION STATUS

5.1 Construction Summary

During 2019 construction started for one projects. Table 11 presents a summary of project construction progress and costs through 2019.

Table 11 [Project Construction Costs](#)

Project Name	Amount Expended	Initial Contract Amount	Current Contract Amount	% Change in Contract Amount
WRF	\$0	\$62,413,335	\$62,413,335	0%
Conveyance Facilities	\$0	\$0	\$0	0%
Recycled Water Facilities	\$0	\$0	\$0	0%
Construction Total	\$0	\$62,413,335	\$62,413,335	0%

5.2 Upcoming Traffic Control

5.2.1 Planned Impacted Areas

5.2.2 Hours of Planned Lane/Road Closures

5.3 Construction Safety

The Project safety goal is zero reportable incidents. There have been a total of zero reported incidents in 2019.

Section 6

OTHER PROGRAM ACTIVITIES

6.1 Public Outreach

Current public outreach activities include:

- Development of the Draft Communications Plan.
- Continued re-branding activities.
- Planning for mailings/bill inserts prior to the rate increases taking affect.

6.2 Permitting Activities

Permit compliance is an important aspect of the Project. The current permitting activities include:

- Consultation with the State Historic Preservation Office (SHPO) is needed for compliance with the National Environmental Policy Act (NEPA) required to secure EPA WIFIA financing.
 - Additional architectural and archeological within the area of potential effect (APE) are currently being planned.
- In order to capture changes to the project identified since the certification of the Final Environmental Impacts Report (FEIR), ESA is currently completing an addendum to the FEIR.
- While initially planned to occur in April 2019, the coastal development permit (CDP) for the Project will be on the July 2019 CCC meeting in San Luis Obispo.

6.3 Funding Status

- Coordination with EPA WIFIA staff to facilitate the environmental review and finalize loan terms.
- Worked with Kestrel to develop responses to comments from the United States Bureau of Reclamation (USBR) Title XVI Grant Program staff on the City draft crosswalk document delivered in early 2018.
- Delivered the Final Recycled Water Final Water Reclamation Facility Plan (previously the Draft Master Reclamation Plan)
 - Delivery of the final document will allow the City to be reimbursed the second half of the \$75,000 planning grant.

6.4 City Operations Activity

The current City Operations activities include:

- Significant City Operations activities are not anticipated until start-up of the WRF begins in June 2021.

Section 7

PROJECT DETAILS

7.1 Water Reclamation Facility

7.1.1 Designer/Builder

In October 2018, the City executed a contract with Overland Contracting (a joint venture of Filanc and Black & Veatch) for design and construction of the WRF located at the South Bay Boulevard site. The project will be delivered using the design-build process.

7.1.2 Project Scope

The scope of this element of the Project includes a preliminary, secondary, and advanced treatment facilities. The secondary treatment processes will consist of a membrane bioreactor (MBR) and have the ability to exceed the anticipated discharge requirements for the City's new National Pollution Discharge Elimination System (NPDES) permit. The advanced treatment facilities include reverse osmosis (RO) and ultraviolet disinfection/advanced oxidation process (UVAOP). Purified water from the advanced treatment facilities will be injected into the lower Morro Groundwater Basin.

7.1.3 Current Progress

Overland Contracting (DB) delivered an internal draft of the BODR in February 2019. Since that time, Carollo and City staff has reviewed the Draft BODR and the DB is currently updating the Draft BODR for release to the WRFCAC and City Council. It is anticipated that the Draft BODR will be available in early May 2019. In addition to the Draft BODR review, City staff and Carollo have been identifying, costing, and negotiating PCOs for the existing DB agreement. These will also be presented to the WRFCAC and City Council in May 2019.



7.1.4 Upcoming Activities

As stated previously, the next step in the DB process is the acceptance of the PCOs and modifications to the DB's scope and resulting agreement. These changes will all need to be approved by City Council in May 2019. In addition to the PCOs, the DB is continuing to advance the design and is planning to deliver the 60 Percent Submittal in August 2019.

7.1.5 Project Challenges

The goal is to move this element into construction as soon as possible. At this time, two items are on the critical path for WRF construction. These include issuance of a coastal development permit by the CCC and completion of the SHPO consultation process (leading to a signed WIFIA loan agreement).

Table 12 WRF Performance Measures

Performance Measures	Target	Current	Status
Construction Cost ⁽¹⁾	\$62.9M	\$65.4M	
Change Order Cost	\$6.2M	\$2.5M	

Notes:

(1) Project budget and current contract amount ($\leq 5\%$ over target = Yellow, $> 5\%$ over target = Red).

Table 13 WRF Construction Summary

Schedule					
Request for Bid / Bid Advertisement				January 24, 2018	
Bid Opening Date				May 08, 2018	
Contract Award / Council Award Date				October 23, 2018	
Notice to Proceed for Construction				NA	
Original Final Completion Date				June 09, 2022	
Original Duration (Non-Working Days)				1,316	
Days Changed by Change Order				0	
Actual Final Completion Date (including Non-Working Days)				June 09, 2022	
Schedule Percent Complete				11%	
Budget					
Engineer's Estimate				\$69,213,000	
Award Amount				\$62,413,335	
Change Order Total				\$0	
Current Contract Value				\$62,413,335	
Percent Change				0%	
Actual Cost -to-Date				\$0	
Percent Complete (Percent Expended)				0%	
Construction Management Statistics					
	RFIs	Submittals	PCOs	COs	NOPCs
Total Received	0	0	19	0	0
Total Responded To	0	0	17	0	0
Total Pending	0	0	2	0	0
Average Turnaround (calendar days)	0	0	N/A	N/A	N/A

Acronym List:

(1) RFI – Request for Information PCO – Proposed Change Order

(2) CO – Change Order NOPC - Notice of Potential Claim

7.2 Conveyance Facilities

7.2.1 Designer

In November 2017, the City executed a contract with Water Works Engineers for design and engineering support for the facilities necessary to connect the existing WWTP and the new WRF.

7.2.2 Contractor

This element of the Project is being delivered via a conventional design-bid-build procurement process. The Conveyance Facilities are currently under design and will begin construction in the spring of 2020.

7.2.3 Project Scope

The Conveyance Facilities originally included the design of approximately 3.5 miles of pipelines and a lift station located near the existing WWTP. The pipelines include two raw wastewater forcemains and a wet weather/brine discharge forcemain. Several changes to the Conveyance Facilities have occurred since the contract was executed with WWE including the addition of a second, smaller lift station near the intersection of Main Street and Highway 1 and the addition of the potable reuse forcemain to either the east or west injection site.

7.2.4 Current Progress

WWE, City staff, and Carollo presented the preferred lift station orientation (dual) and the recommended pipeline alignment (west of Highway 1 along Quintana Road) to WRFCAC and the City Council in December 2018 and January 2019, respectively. An internal draft of the BODR was also delivered to staff in February 2019. WWE, City staff, and Carollo are still in the process of updating the internal draft before the Draft BODR is presented to WRFCAC and City Council. While the actual Draft BODR has not yet been made available, all of the cost and technical information has been presented several times in WRFCAC and City Council meetings. WWE has started the development of the 60 Percent Design Submittal at this time.






7.2.5 Upcoming Activities

WWE has been working to complete the field work necessary to complete the 60 Percent Design Submittal over the last several months. These activities include surveying and geotechnical investigations. These activities must be completed before the 60 Percent Design Submittal can be completed.

7.2.6 Project Challenges

Access to private property has caused delays in this element of the property. In order to advance the design of the Conveyance Facilities, access to PG&E and Vistra property is required. Access to these properties has proven time consuming and challenging.

Table 14 Conveyance Facilities Performance Measures

Performance Measures	Target	Current	Status
Construction Cost ⁽¹⁾	\$23.5M	\$0M	
Change Order Cost	\$2.4M	\$0M	
Number of Feet of Pipelines Constructed	18,500 LF	0 LF	
Number of Days of Full Road Closures	0 Days	0 Days	
Number of Hours of Night Work	0 Hours	0 Hours	

Notes:

(1) Project budget and current contract amount - (<5% over target = Yellow, >5% over target = Red)

Table 15 Conveyance Facilities Summary

Schedule	
Request for Bid / Bid Advertisement	NA
Bid Opening Date	NA
Contract Award / Council Award Date	NA
Notice to Proceed for Construction	NA
Original Final Completion Date	NA
Original Duration (Non-Working Days)	NA
Days Changed by Change Order	0
Actual Final Completion Date (including Non-Working Days)	NA
Schedule Percent Complete	0%
Budget	
Engineer's Estimate	\$25,827,000
Award Amount	\$0
Change Order Total	\$0
Current Contract Value	\$0
Percent Change	0%
Work Completed	
Actual Cost -to-Date	\$0
Percent Complete (Percent Expended)	0%
Length of Pipe Installed (actual to date / planned total)	0 LF / 18,500 LF

	RFIs	Submittals	PCOs	COs	NOPCs
Total Received	0	0	0	0	0
Total Responded To	0	0	0	0	0
Total Pending	0	0	0	0	0
Average Turnaround (calendar days)	0	0	N/A	N/A	N/A

Notes:

Acronym List:

- (1) RFI – Request for Information
- (2) PCO – Proposed Change Order
- (3) CO – Change Order
- (4) NOPC – Notice of Potential Claim

7.3 Recycled Water Facilities

7.3.1 Designer

Procurement activities for the designer for the Recycled Water Facilities have not yet been started, but it is anticipated that design will begin in early 2020 following completion of the Phase 1, Phase 2, and Phase 3 hydrogeological work by GSI.

7.3.2 Contractor

This element of the Project is being delivered via a conventional design-bid-build procurement process. The Recycled Water Facilities are currently under design and will begin construction in the spring of 2020.

7.3.3 Project Scope

Since the potable reuse pipeline from the WRF to the selected injection site was moved into WWE's scope for design of the Conveyance Facilities, this element of the Project consists primarily of full-scale injection wells at either the west or east injection sites.

7.3.4 Current Progress

Phase 1 of GSI's hydrogeological work is nearly complete and will be presented to WRFCAC and City Council in May 2019.




7.3.5 Upcoming Activities

GSI is currently working on Phase 2 and City staff and Carollo are working to provide access to the Vistra property to facilitate siting of the pilot injection wells. In addition, GSI is also working to complete the cone penetration tests (CPTs) at Silver City RV Park in order to characterize the east injection location.

7.3.6 Project Challenges

As mentioned previously, access challenges for the Vistra property are also preventing the Recycled Water Facilities from advancing in to Phase 2.

Table 16 Recycled Water Facilities Performance Measures

Performance Measures	Target	Current	Status
Construction Cost (1)	\$3.2M	\$0M	
Change Order Cost	\$0.3M	\$0M	
Selection of the Injection Site	October 15, 2019	NA	

Notes:

(1) Project budget and current contract amount - ($\leq 5\%$ over target = Yellow, $> 5\%$ over target = Red)

Table 17 Recycled Water Facilities Summary

Schedule					
Request for Proposals	NA				
Proposal Due Date	NA				
Contract Award Date	NA				
Notice to Proceed for Design	NA				
Design Milestones – 30/60/90/Final	30 - NA 60 - NA 90 - NA Final - NA				
Request for Bid / Bid Advertisement	NA				
Bid Opening Date	NA				
Contract Award / Council Award Date	NA				
Notice to Proceed for Construction	NA				
Original Final Completion Date	NA				
Original Duration (Non-Working Days)	NA				
Days Changed by Change Order	0				
Actual Final Completion Date (including Non-Working Days)	NA				
Schedule Percent Complete	0%				
Request for Bid / Bid Advertisement	NA				
Bid Opening Date	NA				
Budget					
Engineer's Estimate	\$3,500,000				
Award Amount	\$0				
Change Order Total	\$0				
Current Contract Value	\$0				
Percent Change	0%				
Work Completed					
Actual Cost -to-Date	\$0				
Percent Complete (Percent Expended)	0%				
	RFIs	Submittals	PCOs	COs	NOPCs
Total Received	0	0	0	0	0
Total Responded To	0	0	0	0	0
Total Pending	0	0	0	0	0
Average Turnaround (calendar days)	0	0	N/A	N/A	N/A

Notes:

Acronym List:

- (1) RFI – Request for Information
- (2) PCO – Proposed Change Order
- (3) CO – Change Order
- (4) NOPC - Notice of Potential Claim