









Quarterly Report | **2022 Q2** April–June 2022

Omaha Combined Sewer Overflow Control Program Implementation Phase





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PROGRAM MISSION

The Program Management Team's job is to save money for ratepayers and do what is best for the community as we meet the objectives and requirements of the Clean Water Act.

For additional information regarding the Omaha CSO Program, please visit *www.OmahaCSO.com* or call the CSO Program Information Line at 402-341-0235.

ON THE COVER: **Riverview Lift Station Improvements Project** construction is nearing completion, with an expected substantial completion in Q4 2022.



A City of Omaha Public Works Initiative



Cole Creek CSO 203 Sewer Separation Project looking east along Pinkney Street from 67th Street, construction is underway and construction is nearing 50% complete. Substantial completion is expected summer 2023.



Papillion Creek North (PCN) 210 Sewer Separation Project, looking east along Ohio Street from 66th Avenue, construction is more than 50% complete.



Saddle Creek Retention Treatment Basin (RTB) Project construction is approximately 90% complete, with substantial completion expected in spring 2023. Backfill is nearly done around the facility and the pre-cast wall installation is finished. Work continues with piping and equipment installation in the buildings and Q3 2022 will focus on exterior paving around the structures.



Nicholas Street Sewer Extension, Phase 3B Project construction continues south of 16th and Grace Streets with an expected summer 2024 completion date.



Construction activities continue south of North 56th and Sprague Streets on the **Cole Creek CSO 204 Area – Phase 3 Sewer Separation (Taylor to Ruggles between 56th & 61st) Project**; substantial completion was reached in Q2 2022.



2ND QUARTER HIGHLIGHTS

- Final design is in progress for the Cole Creek CSO 202 Phase 2 – 70th Avenue and Spencer Street Project; 90% design documents are complete. This project is now on-hold pending utility relocation efforts with an expected construction start of spring 2024.
- Forest Lawn Creek Inflow Removal and Outflow Storm Sewer Project construction contract was routed for City Council approval Q2 2022. Construction is expected to begin spring 2023.
- Blake Street Lift Station Improvements Project construction contract was under negotiation this quarter as a potential change order to the existing Riverview Lift Station construction contract.
- Final design is complete for the Hickory Street Sanitary Sewer Service Relocation, with bid advertisement anticipated in Q3 2022. Final permits and property agreements are being obtained prior to bidding.
- Preliminary design is in progress for the CSO 119 South Barrel Conversion and Sewer Separation Project; the 30% design documents were received this quarter and are under review.
- Preliminary design is in progress for CSO 204 Phase 4a – 57th Street & Pratt Street and Phase 4b – 56th Street and Bedford Avenue Projects, with the 30% design documents expected in early 2023.
- Final design is nearly complete for the CSO 212 64th Avenue and William Street Project; 90% design documents were received this quarter and are under review.
- All pump testing is complete for the **Missouri River Water Resource Recovery Facility – Transfer Lift Station Pump Replacement Project**. The final wastewater pump was installed, and functional testing has been completed. Bridge crane work is progressing. Substantial Completion is anticipated in Q3 2022.
- The **Burt-Izard Lift Station Improvements Project** construction achieved substantial completion in Q1 2022. The lift station is currently operating at 50 million gallons per day during wet weather, allowing increased capture and treatment of combined sewage at the Missouri River Water Resource Recovery Facility. Final completion is anticipated in Q3 2022.





PROJECT SPOTLIGHT

Burt-Izard Lift Station Provides Critical Support to System-Wide Operations

The CSO Program recently completed improvements at the Burt-Izard Lift Station.

Originally constructed in the 1960s, the lift station had the capacity to pump 50 million gallons per day during wet weather events. However, because of significant grit loadings to the facility, an old South Interceptor Force Main (SIFM) in need of improvements, and lack of wet weather treatment capacity at the Missouri River Water Resource Recovery Facility (MRWRRF) which prioritized treatment of flows from the South Omaha Industrial Areas, the lift station was recently operating at only 25 million gallons per day during wet weather events.

The Burt-Izard Lift Station Improvements Project included replacement of existing gates and mechanical bar screen, the addition of another new mechanical bar screen, new pumps and motors, valves, discharge piping, electrical and instrumentation upgrades, and enhancements for flow distribution through the grit basins. All existing equipment had been in service well beyond its useful life. The improved facility is now able to reliably pump 50 million gallons per day, via the new SIFM, for treatment at the expanded and upgraded MRWRRF.

The Burt-Izard Lift Station is one of a number of lift stations which convey flow to the MRWRRF through the new SIFM. All of the existing facilities and the SIFM were constructed in the 1960s. By

focusing on improvements at these facilities and the MRWRRF, the City is now able to convey and treat more CSO flow during wet weather events, reduce the number of lift stations operating along the Missouri River, and reduce overall maintenance costs.

The Leavenworth Lift Station Replacement Project was one of the first projects constructed in the CSO Program. This project increased the conveyance of wet weather flows to the MRWRRF from 16 to 45 million gallons per day from this lift station. The Riverview Lift Station Replacement Project is currently under construction and is expected to be complete in late 2022. This facility will increase conveyance of wet weather flows from 3.5 to 7 million gallons per day. The Monroe Lift Station Improvements Project is the final lift station improvement project included in the CSO Program. It is currently under construction and will increase the conveyance of flows from the south though a separate force main, to the MRWRRF, from 40 to 65 million gallons per day during wet weather events.

While the completion of the Burt-Izard Lift Station Improvements Project represents a significant Program milestone, the interconnection of improved facilities throughout the system is critical to system-wide operations. Collecting, screening, and pumping wet weather flows to an improved and expanded MRWRRF allows for treatment of 150 million gallons per day peak hour flow and has allowed the City and CSO Program to greatly improve the quality of water discharged to the Missouri River.



Missouri River Water Resource Recovery Facility

Burt-Izard Lift Station Completed: Q2 2022

Cost: \$15,440,000

South Interceptor Force Main

Completed: 2015-2018 Cost: \$53,7600,000

Leavenworth

Lift Station Completed: Q1 2015 Cost: \$28,327,400

Riverview Lift Station

Estimated Completion Date: Q4 2022 Estimated Cost: \$25,846,000

Missouri River Water Resource OT **Recovery Facility**

Completed: 2014-2019 Cost: \$139,911,000

Monroe Street Lift Station

Estimated Completion Date: Q2 2024 Estimated Cost: \$24,464,000



275





Leavenworth Lift Station

Missouri

Riverview Lift Station

Monroe Street Lift Station



80

PROGRAM GOALS



Regulatory Compliance

Meet specific regulatory requirements as identified by the Environmental Protection Agency and Nebraska Department of Environment and Energy.

- Complete implementation of CSO projects within identified schedule.
- Reduce pollutant discharges to the Missouri River and Papillion Creek.



Goal 2: Economic Affordability Minimize cost impacts to ratepayers by completing CSO projects within or under budget.

CSO Solutions

Goal 3:

Maintain continuous public dialogue, provide information and pursue opportunities for multiple benefits in CSO projects.

PROGRAM MISSION

The CSO Program's mission is to save money for ratepayers and do what is best for the community as we meet the objectives and requirements of the Clean Water Act.

Delivere

Goal 1: Regulatory Compliance

Regulatory Compliance includes two items: 1) implement projects within the identified schedule and 2) reduce pollutant discharges to the Missouri River and Papillion Creek.



Multiple packages provide more opportunities for local contractors and efficient delivery.





PROJECT DELIVERY SCHEDULE FOR ACTIVE PROJECTS*

Long Term Control Plan Projects	2022	2023	2024	2025	2026
Saddle Creek Retention Treatment Basin (SCRTB)					
Cole Creek CSO 204 Area – Phase 3 Combined Sewer Separation					
Papillion Creek North (PCN) 210 Sewer Separation					
Cole Creek CSO 203 Sewer Separation Project					
Forest Lawn Creek Inflow Removal and Outfall Storm Sewer					
CSO 212 – 64th Avenue William Street					
Nicholas Street Sewer Extension – Phase 3B					
CSO 119 South Barrel Conversion & Sewer Separation					
CSO 202 Phase 2 – 70th Avenue & Spencer Street					
CSO 204 Phase 4a – 57th Street & Pratt Street					
CSO 204 Phase 4b – 56th Street & Bedford Avenue (Construction in 2029)					
System Reliability Projects**	2022	2023	2024	2025	2026
Missouri River Water Resource Recovery Facility (MRWRRF) - Transfer Lift Station Pump Replacement					
Burt-Izard Lift Station Improvements					
Riverview Lift Station Replacement					
Blake Street Lift Station Improvements Project					
Monroe Street Lift Station Improvements					
Desian/		*Active project	s in design and/	or construction.	

Bidding

Construction

*Active projects in design and/or construction. **Projects related to the CSO Program that enhance the operational reliability of the system.

SCHEDULE: The 2021 Long Term Control Plan (LTCP) Update was approved by the Nebraska Department of Environment and Energy (NDEE) in August 2021. The Project Delivery Schedule for Active Projects (above) is consistent with the approved LTCP Update and reflects the 10-year extension (included in an Amendment to the City's Consent Order with NDEE) for CSO Program completion. A new CSO permit has yet to be issued.

GOAL 2: Economic Affordability

The CSO Program actively seeks opportunities to minimize impacts to ratepayers.

LIHEAP Funds Update

Omaha's Combined Sewer Overflow Control Program uses the existing Low Income Home Energy Assistance Program (LIHEAP) process to assist low-income rate payers. LIHEAP is administered by MUD and OPPD. The City of Omaha provides assistance dollars to the LIHEAP program along with a small fee to cover administrative costs. The administrative fees are far below the average for similar programs across the country, which allows for more funds to go towards relief for those who need it most.

Ratepayer assistance helps low income and fixed income households with sewer rate increases that are necessary to fund the Program's projects. The City has included CARES Act dollars (Corona virus Aid, Relief, and Economic Security) into the available LIHEAP funds. As noted below, over \$17M has been provided to help Omaha ratepayers with their sewer rates since its inception. Increased funding since the onset of the pandemic has provided over \$6M since Q1 2020.

Ratepayers are eligible if they receive assistance from their utility. For more information or to apply, call 402-595-1258.

RATEPAYER ASSISTANCE

When the Long Term Control Plan was approved, a ratepayer assistance plan was developed to help low income and fixed income households with the sewer rate increases necessary to fund the Program.

Ratepayers are eligible if they receive Low Income Heat and Energy Assistance Program (LIHEAP) from their utility. This has kept administrative costs to a minimum and provided the maximum benefit to those who need it.

For information about the sewer use fee assistance program call **402-444-3908**. To apply for Nebraska LIHEAP, which qualifies you for sewer use fee assistance, call **402-595-1258**.



GOAL 3: Community Acceptance

The CSO Program supports ongoing dialogue with the public through timely project updates. Close coordination with impacted neighborhoods,

businesses and small business contractors is also provided to highlight Program benefits and opportunities.

Summer Youth Outreach Event

On the afternoon of June 22, 2022, approximately 90 fourth and fifth graders from Fontenelle Elementary School's Next Level Learning (NLL) summer program attended a CSO youth outreach event at the recently renovated Fontenelle Lagoon. Students rotated between an education center and adventure center.

At the education center, city staff, members of the Program Management Team and others provided a youth-oriented CSO overview presentation, with animations on sewer separation and green infrastructure. Guest speakers from Omaha Stormwater also attended and presented two activities demonstrating what happens to trash when it rains and how we can keep our storm drains clean.

The adventure center consisted of a guided walking tour around the lagoon, showcasing both its natural and engineered elements. Students completed an activity sheet that tasked them to find ducks, fishing overlooks, retaining walls, the wetland bay, and more. Following the tour, students were given a CSO youth outreach activity guide, a five-minute shower timer and a reusable water bottle.

Students were engaged and guest speakers brought energy and enthusiasm to the event. NLL Principal Elijah Simmons said, "I appreciate all the hard work you put into this event. The students really enjoyed themselves. I hope to continue to work with your organization in the future."





Budget Details

This schedule and costs align with the approved 2021 Long Term Control Plan (LTCP) Update that reflects the ten year time extension. The total Program budget for the project delivery schedule is noted as \$2.0 billion in escalated dollars, which takes into account the estimated effect of inflation for dollars spent between now and Program completion in 2037. The values below reflect the updated total Program budget, as well as the expected funding from the latest rate ordinance.





construction activities through June 2022.

COMPANIES ENGAGED

During the past five years,* small and emerging small businesses (SEBs) received just over \$8M in construction contracts and subcontracts, representing over 7.5% of the total construction work contracted through the City's CSO Program over the same period of time.

In addition, approximately \$13M in construction subcontracts were to minority and/or women owned businesses as a part of the Federal Disadvantaged Business Enterprise (DBE) program for projects that received federal funding during that same period of time.

*2017-2021

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FIGURE 1



Figure 1 and the corresponding table to the right identify current and completed construction projects.

PROJECT OVERVIEW



	KEY	CONSTRUCTION CONTRACTS	CONSTRUCTION MANAGER'S CURRENT ESTIMATE AT COMPLETION REFLECTS CSO FUNDING*	
		Missouri River Water Resource Recovery Facility – Transfer Lift Station Pump Replacement (OPW 53408)	\$6,580,000 92% Complete	Pump testing is omplete.
	B	Burt-Izard Lift Station Improvements (OPW 52472)	 \$15,440,000 99% Complete 	Project is substantially complete; only punch list items remain to achieve final completion.
	C	Riverview Lift Station Replacement (OPW 52402)	*25,846,000 ••••••••••••••••••••••••••••••••••	 HVAC work continues. Site paving is complete.
	D	Cole Creek CSO 204 Area – Phase 3 Combined Sewer Separation (Taylor to Ruggles Between 56th & 61st) (OPW 53206)	\$4,818,000 92% Complete	Project reached substantial completion Q2 2022.
		Papillion Creek North (PCN) 210 Sewer Separation (OPW 53320)	\$7,326,000 71% Complete	Additional work identified and in design; project expected to reach substantial completion
RGAD	F	Cole Creek CSO 203 Sewer Separation Project (OPW 53059)	\$7,358,000 47% Complete	Construction continues with spring 2023 completion
	G	Saddle Creek Retention Treatment Basin (OPW 52049)	*92,500,000 *92,500,000 *92,500,000	 Construction continues with early 2023 substantial
H		Nicholas Street Sewer Extension – Phase 3B (OPW 53753)	*21,737,000 *21,737,000 *21,737,000	Significant coordination has occurred to maintain truck routes
		Monroe Street Lift Station Improvements Project (OPW 53082)	*24,464,000 *24,464,000 *24,464,000	Bypass structure work is complete.

*Reflects CSO Funding, does not include other project funding sources.



ACTIVE DESIGN PROJECT STATUS

Active projects are defined as projects that are currently in request for proposal phase, study or design (preliminary or final), or planned for construction (advertised for bid but not yet under construction). Projects will continue to be divided into multiple design/construction contracts as appropriate to efficiently complete work. Active projects and their corresponding status are listed in the following table. More information about each of the projects can be found on the Program website (www.OmahaCSO.com).

ACTIVE DESIGN PROJECT STATUS OVERVIEW								
Omaha Public Works Project Number (OPW)	City Council District	Project Name	Opinion of Probable Construction Cost ¹	Issued request for proposal or consultant Selection	Study and Preliminary Design	Final Design	Advertised for Bid or Awarded Contract	Comments
52470	2	Forest Lawn Creek Inflow Removal and Outfall Storm Sewer	\$20–30 Million				~	Bid award routed for Council approval. Anticipating notice-to-proceed early 2023.
53270	4	Blake Street Lift Station Improvements Project ²	\$3–5 Million			~		Negotiating construction as a change order to Riverview Lift Station Improvements Project.
53869	1	CSO 202 Phase 2 – 70th Avenue and Spencer Street	\$10–15 Million			~		Project design completed and awaiting utility relocations.
53899	4	Hickory Street Sanitary Sewer Service Relocation	<\$1 Million			-		Construction bid advertisement expected in Q3 2022.
53149	4	CSO 119 South Barrel Conversion & Sewer Separation	\$10–15 Million		~			30% design documents were received in Q2 2022 and are under review.
53820	1	CSO 204 Phase 4a – 57th Street and Pratt Street CSO 204 Phase 4b – 56th Street and Bedford Avenue	\$35–40 Million		~			30% design deliverable expected in early 2023.
51685	3	CSO 212 – 64th Avenue and William Street	\$5–10 Million			~		90% design documents were received in Q2 2022 and are under review.
54293	1	East Cole Creek Interceptor Rehabilitation	\$5–10 Million	~				Scoping negotiations underway with selected design engineer.
54374	1	61st and Radial Storm Sewer	\$15-20 Million	~				Request for Proposals was issued Q2 2022. Consultant selection will occur in Q3 2022.
1-Current	Onin	ion of Probable Construction Cost which reflect	ascalated construction	hidding	voarval	1100		

robable Construction Cos which reflect es ated construction bidding year values

2-Blake Street Lift Station was previously part of the Riverview Lift Station, but is being constructed as a separate construction package.



UPCOMING BID OPPORTUNITIES

Project	Hickory Street Sanitary Sewer Service Relocation	CSO 212 64th Avenue and William Street Sewer Separation
Project Type	Conveyance	Sewer Separation
Bid Advertisement (estimated)	Q3 2022	Q3 2022
Begin Construction (estimated)	Q4 2022	Q2 2023
Construction Estimate	< \$1 Million	\$5–10 Million

WEBSITE SUMMARY

Use of the Omaha CSO Program's public website is tracked and Q2 2022¹ summary information is provided below. This continues to show active public use of the website. The website is located here: www.OmahaCSO.com

Omaha CSO April 1 – June 18, 2022

Website Summary



12%



Sessions by Device



CSO

*Sessions include all visits to the website by new and returning users.

¹Website analytics are slightly incomplete for Q2 2002 due to a required tracking software update.



PROGRAM OVERVIEW

PROGRAM MANAGEMENT OVERVIEW AND ACTIVITIES

The responsibility of the Program Management Team (PMT) is to evaluate Program regulatory milestone progress and guide multiple projects toward compliance by providing a consistent framework for design and construction. PMT success is gauged by achieving Program goals and regulatory milestones at the lowest cost to ratepayers. PMT responsibilities include:

- Maintain and update tools and process development for Program and project delivery.
- Obtain and maintain regulatory and environmental compliance.
- Maintain and update public participation, including a public website (www.OmahaCSO.com).
- Facilitate stakeholder education and outreach.
- Identify construction enhancement opportunities that provide added community benefits.
- Promote green infrastructure and sustainability goals.
- Adapt the Long Term Control Plan (LTCP) to changing conditions.
- Seek opportunities to reduce costs.
- Schedule oversight and tracking.

Recurring Program Quarterly Activities

- Meet with Nebraska Department of Environment and Energy and Environmental Protection Agency Region VII to discuss LTCP implementation status and project details.
- Provide outreach to OPPD, M.U.D. and other utility companies to discuss the Program and project coordination, and minimize costs and disruptions to ratepayers.
- Work closely with City of Omaha Right-of-Way and General Services Division to coordinate property and easement acquisitions, bid advertisement, contracting processes and schedules.
- Inform key stakeholders, including United States Army Corps of Engineers, Nebraska Department of Transportation, UPRR, BNSF Railway and Nebraska Department of Natural Resources, regarding upcoming projects.
- Coordinate, oversee and monitor project progress to confirm projects are completed within scope, schedule and budget as much as possible.
- Proactively identify issues that could impact the on-time delivery of phased regulatory milestones.
- Perform inspections of construction sites to confirm compliance with all permits and approvals.
- Assist construction managers with understanding environmental requirements to confirm compliance.
- Review and coordinate permits.

- Develop and refine plans, protocols, procedures, standards, guidance documents and workflows.
- Track and coordinate schedule of metro area projects with Nebraska Department of Transportation, M.U.D., City of Omaha, Council Bluffs Interstate System Improvement Program, University of Nebraska Medical Center, Omaha Public Schools, University of Nebraska Omaha and the Omaha Airport Authority.
- Monitor construction costs and trends in the Omaha construction market.



LONG TERM CONTROL PLAN PROJECTS MILESTONE SCHEDULE

The Long Term Control Plan (LTCP) project schedules shown below are consistent with the 2021 LTCP Update approved by the Nebraska Department of Environment and Energy (NDEE) in August 2021. This schedule includes a revised list of projects with committed LTCP milestone completion dates.

	-							
Missouri River Watershed Projects 50	2037							
MINNE LUSA (ML) BASIN								
Forest Lawn Creek Inflow Removal and Outfall								
Storm Sewer	+							
Grace St and North Intercentor DWF	+							
Diversion Rehabilitation								
CSO 105 Outfall Active Control								
BURT-IZARD (BI) BASIN								
Nicholas Street Sewer Extension – Phase 3B								
North Downtown Conveyance Sewer – 11th & Izard to 6th & Abbott								
11th & Izard Grit and Screening Facility								
11th & Izard Active Control								
Northeast Omaha RTB – 6th Street & Abbott Drive								
21st & Cuming Active Control								
OHERN-MONROE (OM) BASIN								
CSO 119 South Barrel Conversion and								
South Interceptor (SI) BASIN								
Pierce Street Sewer Separation								
Jones Street to Leavenworth Diversion								
Hickory Street Sanitary Sewer Service Relocation								
LEAVENWORTH (LV) BASIN								
Leavenworth Basin Storage Tank (CSO 109)								
Papillion Creek Matershed Projects 2022 2023	2037							
COLE CREEK (CC) BASIN								
CC CSO 204 Area - Phase 3 Combined Sewer Separation								
CC CSO 203 Sewer Separation								
East CC Interceptor Rehabilitation								
CSO 202 Phase 2 – 70th Avenue & Spencer Street								
61st and Radial Storm Sewer								
CSO 204 Phase 4a - 57th Street and Pratt Street								
CSO 204 Phase 4b – 56th Street and Bedford Avenue								
PAPILLION CREEK NORTH (PCN) BASIN								
PCN 210 Sewer Separation	Τ							
CSO 212 – 64th Avenue and William Street	+							
SADDLE CREEK BASIN								
Saddle Creek Retention Treatment Basin								

*Additional projects are being completed within the CSO Program, but are not included in the 2021 LTCP Update schedule. These projects include: Burt-Izard Lift Station Improvements; Riverview Lift Station Replacement; Monroe Street Lift Station Improvements; Missouri River Water Resource Recovery Facility – Transfer Lift Station Pump Replacement. Dates listed in this report may not directly correspond with LTCP dates reflected here. The City works with NDEE to adjust dates as necessary to remain in compliance.





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