CSO!

Clean Solutions for Omaha

Quarterly Report | **2022 Q4**

October – December 2022

Omaha Combined Sewer Overflow Control Program

Implementation Phase

CSO!
Clean Solutions for Omaha

CONTENTS

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: Southern view of the Missouri River and developing Omaha Riverfront from the Bob Kerry Pedestrian Bridge.

A City of Omaha
Public Works Initiative

2022 YEAR IN REVIEW

The CSO Program continued to make significant progress in 2022 while looking for ways to save money for ratepayers, do what is best for the community, and meet Clean Water Act requirements. The Program goals of regulatory compliance, economic affordability, and community acceptance were furthered by the 2022 efforts noted on the following pages.

PROJECTS

The efforts of City of Omaha employees, design consultants, construction personnel and Program Management Team members led to the 2022 project milestones listed below.

Projects that began design efforts:
- 61st and Radial Storm Sewer (Design Team selected)
- East Cole Creek Interceptor Rehabilitation
- CSO 119 South Barrel Conversion and Sewer Separation (Project RFP issued for new design team)

Projects that were advertised for construction bid or were preparing for construction bid advertisement:
- Forest Lawn Creek Inflow Removal and Outfall Storm Sewer Project
- Blake Street Lift Station Improvements
- Hickory Street Sanitary Sewer Service Relocation
- CSO 212 – 64th Avenue & William Street

Projects that completed construction (substantially or operationally complete):
- Cole Creek CSO 204 Area – Phase 3 Combined Sewer Separation
- Burt-Izard Lift Station Improvements

LONG TERM CONTROL PLAN UPDATE

The City continues to implement projects included in the 2021 Long Term Control Plan (LTCP) Update. In 2022, three projects required modification of the LTCP milestone dates. These included:

- **Forest Lawn Creek Inflow Removal and Outfall Storm Sewer** – Contractor feedback suggested a longer construction schedule than anticipated. The completion date has been revised accordingly.
- **CSO 119 South Barrel Conversion and Sewer Separation** – Due to unanticipated technical complexity, changes in project team, and discovery of changed conditions, the milestone date has been extended and revised.
- **Papillion Creek North (PCN) 210 Sewer Separation** – Conflicts required a sewer redesign, resulting in construction delays and another season to complete the project.

Required by the National Pollutant Discharge Elimination System (NPDES) permit and LTCP, the 2022 City of Omaha CSO Annual Report was submitted and is available on the CSO public website.

All other elements of the plan continue to move forward.

PREP FOR 2023 TRANSITION

The City of Omaha Public Works staff will transition into executing more CSO Program efforts in 2023. This includes leading and managing consultants that are executing project design work, project construction work, and overall CSO Program management efforts. City Public Works and Program Management Team (PMT) staff prepared for this transition during 2022 in order to provide a seamless transition in 2023. The objective is to continue advancing the goals of the CSO Program with city staff and supplement with consultant staff as necessary.

CSO PROGRAM FOCUS

The CSO Program focused on systems to support efficient Program execution in 2022.

Sewer Collection System Model

The Sewer Collection System Model continued to advance, improving the understanding of system operations and identifying cost effective controls. The model was updated to support greater understanding of impacts from development, sewer routing, and sewer rehabilitation. The model is used beyond the CSO Program for city-wide evaluations and assisting in "what if" situations. For more information on the Sewer Collection System Model, refer to Q1 2022 Report–Project Spotlight.

System Reliability Projects

The CSO Program identified four system reliability projects that will greatly enhance the City's existing sewer system. In 2022, the Burt-Izard Lift Station Improvements Project became operationally complete. Construction is underway on the Riverview Lift Station Replacement, Monroe Street Lift Station Improvements, and Blake Street Lift Station Improvements Projects. For more information about Burt-Izard Lift Station Improvements, refer to Q2 2022 Report–Project Spotlight.

Risk Management Plan

In 2022 the Program focused on updating the CSO's Risk Management Program. Managing risk, both during design and construction, is critical to Program success. The Risk Management Plan was updated and rolled out to design and construction staff in order to identify, evaluate, track and mitigate project risks. As noted in the Q3 2022 Spotlight article, "Tracking the potential for risk, as well as actual risks encountered on prior efforts, helps project teams improve future designs and reduce risk." For more information about the CSO's Risk Program, refer to Q3 2022 Report–Project Spotlight.

Program Outreach

Project outreach continued in 2022, including the availability of the 2021 LTCP presentation using an on-demand, virtual meeting through the CSO website. The presentation page is linked to the CSO website (***https://omahacso.com/about-program/long-term-control-plan***) and was promoted through email.

2022 also saw the return of in-person meetings and events. The CSO Program was part of the World O' Water event in September, providing opportunities to educate the public about the CSO Program. Refer Q3 2022 Report–Goal 3 for additional information.

PROGRAM GOALS

Goal 1:
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.

Goal 3:
Community Acceptance
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.

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.

55 **Long Term Control Plan Projects**

Delivered through

80 **Construction Package Contracts**

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

PROJECT STATUS:

** These numbers reflect the 2021 Long Term Control Plan Update*

Study & Design	Bid/ Construction/ Complete	Future
6 Projects	**36** Projects	**13*** Projects
6 Contracts	**61** Contracts	**13*** Contracts

PROJECT DELIVERY SCHEDULE FOR ACTIVE PROJECTS*

LONG TERM CONTROL PLAN PROJECTS	2022	2023	2024	2025	2026
Saddle Creek Retention Treatment Basin (SCRTB)					
Papillion Creek North (PCN) 210 Sewer Separation (Change order is likely extending construction)					
Cole Creek CSO 203 Sewer Separation Project					
Nicholas Street Sewer Extension – Phase 3B					
Forest Lawn Creek Inflow Removal and Outfall Storm Sewer					
CSO 212 – 64th Avenue William Street					
CSO 119 South Barrel Conversion & Sewer Separation***					
CSO 202 Phase 2 – 70th Avenue & Spencer Street					
East Cole Creek Interceptor Rehabilitation					
CSO 204 Phase 4a – 57th Street & Pratt Street					
CSO 204 Phase 4b – 56th Street & Bedford Avenue (Construction in 2029)					
61st and Radial Storm Sewer (Construction completion in 2028)					
Missouri River Water Resource Recovery Facility (MRWRRF) - Transfer Lift Station Pump Replacement					
Riverview Lift Station Replacement****					
Blake Street Lift Station Improvements Project****					
Monroe Street Lift Station Improvements					

Design/Bidding

Construction (from construction notice-to-proceed through substantial or operationally complete)

*Active projects in design and/or construction.
**Projects related to the CSO Program that enhance the operational reliability of the system.
***Project likely delayed; schedule subject to change.
****Blake Street Lift Station Improvements was added as a contract change order to the Riverview Lift Station Replacement Project.

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 the Active Projects (above) is consistent with the approved LTCP Update and the March 31, 2022 letter to NDEE requesting modifications to dates for three projects. The schedule 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.

Program Grant Funding

The City of Omaha continues to look for ways to lower CSO Program costs and impacts to ratepayers. Obtaining other sources for Program funding is one way to reduce ratepayers' costs. The Nebraska Department of Natural Resources (NDNR) through the Water Sustainability Fund, is providing the City of Omaha's CSO Program **a grant in the amount of just over $1M.**

The Water Sustainability Fund "...is a source of financial support to help local project sponsors achieve goals..." These funds are used for reimbursements of actual CSO Program construction costs. The City of Omaha has been a recipient of this grant for several years, with the total received amount **topping $10M.**

The CSO Program continues to apply for and receive grant funds from various sources. Grant funds reduce costs to ratepayers and contribute to Program economic affordability.

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**.

From January through December 2022, over **$5,176,000** has been provided in assistance; for a total of **$19,523,000**

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.

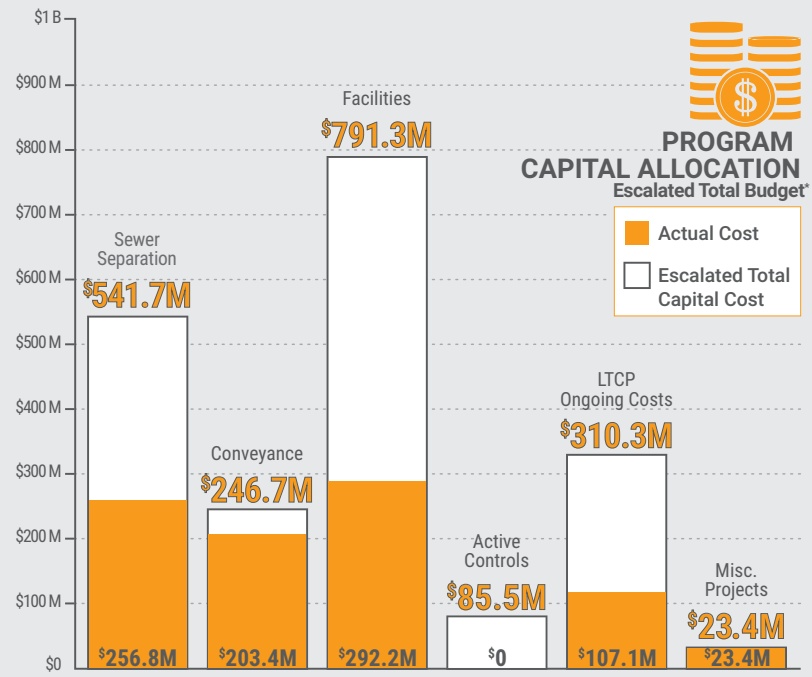
Project Outreach

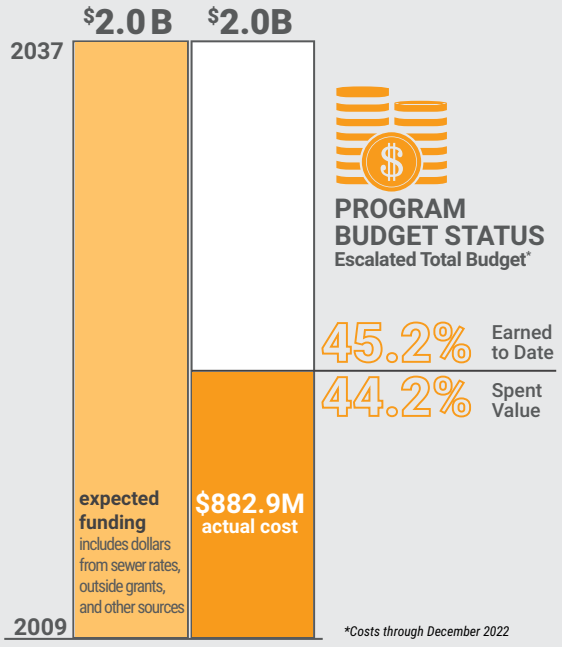
The East Cole Creek Interceptor Rehabilitation project began design in 2022. Originally constructed in the early 1900s, this interceptor is located near Bedford Avenue and 72nd Street along Cole Creek between Maple and Dodge. There are approximately 1.5 miles of pipe needing rehabilitation in a mostly residential area. To educate property owners and the public about upcoming inspection activities, a 12-minute video was provided to explain the types of field work expected in the area. Work will include manhole inspections, CCTV pipe inspections, sewer cleaning, root removal, and dye testing.

A letter was sent to approximately 450 stakeholders in November, inviting them to view this online video and complete the Sewer Back-up and Drainage Information Request questionnaire. More than 10% of the questionnaires were returned and will be used to inform project planning and design. Public outreach will be ongoing with key stakeholders with the next formal presentation scheduled closer to final design.

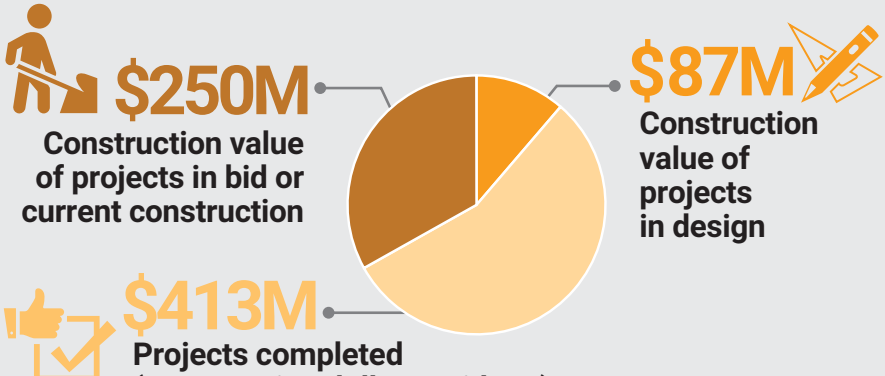
Budget Details

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.





Estimated CSO Program Construction Costs



Approximately $576M has been paid out for construction activities through December 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

FIGURE 1

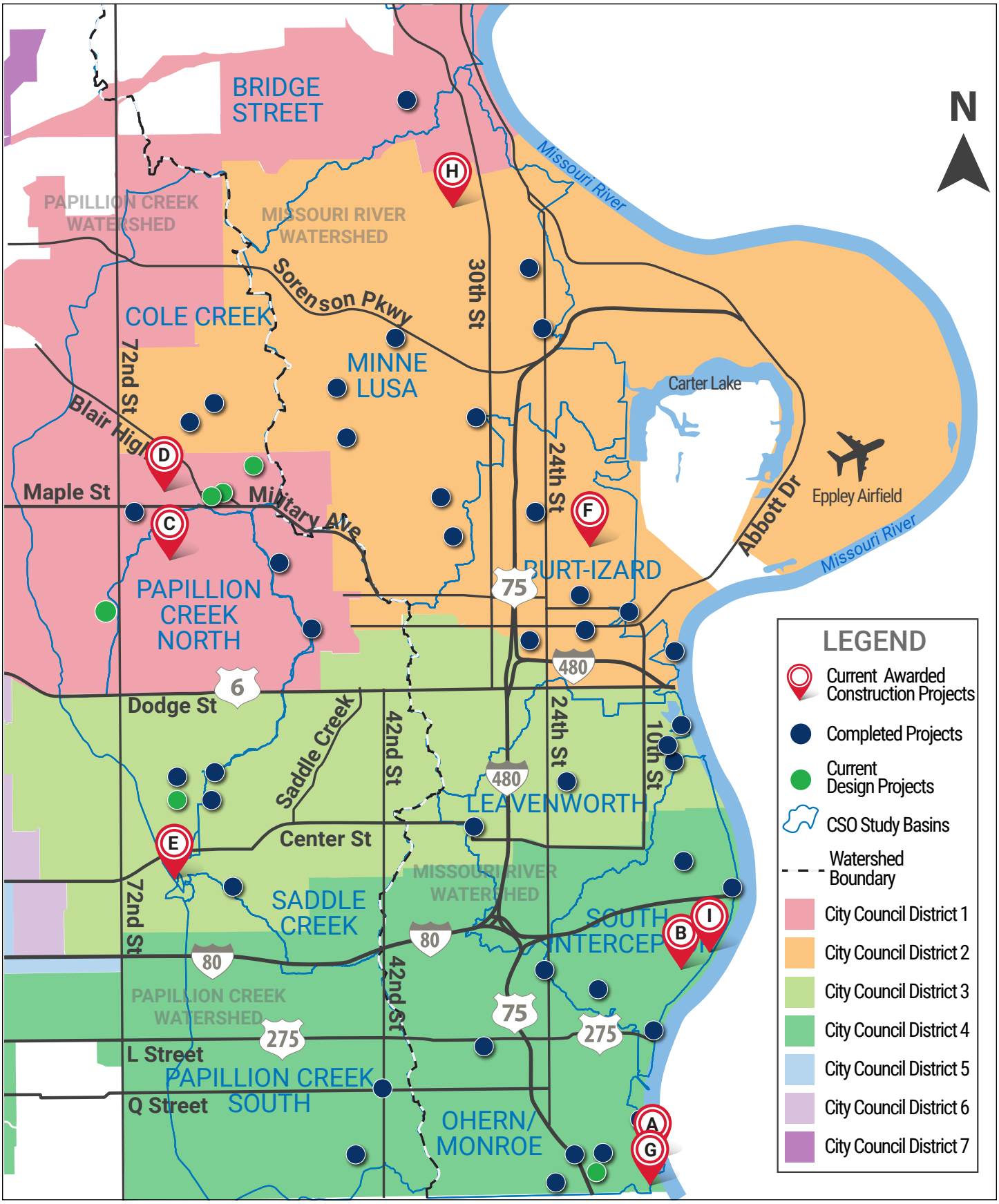
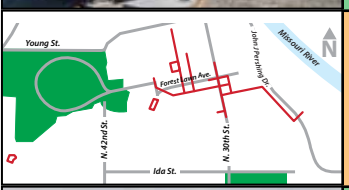


Figure 1 and the corresponding table to the right identify current and completed construction projects.

CURRENT CONSTRUCTION

CURRENT CONSTRUCTION	KEY	CONSTRUCTION CONTRACTS	CONSTRUCTION MANAGER'S CURRENT ESTIMATE AT COMPLETION REFLECTS CSO FUNDING*	
	A	Missouri River Water Resource Recovery Facility – Transfer Lift Station Pump Replacement (OPW 53408)	$6,583,000 **93%** Complete	Bridge crane installation was completed Q4 2022.
	B	Riverview Lift Station Replacement (OPW 52402)	$25,500,000** **97%** Complete	Installation of final electrical equipment is expected Q1 2023.
	C	Papillion Creek North (PCN) 210 Sewer Separation (OPW 53320)	$8,087,000 **97%** Complete	Winter shutdown began in December; the spring restart will include change order items.
	D	Cole Creek CSO 203 Sewer Separation Project (OPW 53059)	$7,415,000 **76%** Complete	Paving work continued in Q4 2022; winter shutdown began in December and will restart in spring 2023.
	E	Saddle Creek Retention Treatment Basin (OPW 52049)	$92,400,000 **92%** Complete	Permanent power and exterior paving completed Q4 2022.
	F	Nicholas Street Sewer Extension – Phase 3B (OPW 53753)	$21,000,000 **30%** Complete	Street paving and M.U.D. water main construction continue.
	G	Monroe Street Lift Station Improvements Project (OPW 53082)	$25,200,000 **24%** Complete	Demolition work continues in pump rooms; electrical room work is ongoing.
	H	Forest Lawn Creek Inflow Removal and Outfall Storm Sewer Project (OPW 52470)	$34,400,000 **0%** Complete	Expecting construction notice to proceed March 2023.
	I	Blake Street Lift Station Improvements (OPW 53270)	$4,291,000** **38%** Complete	Gravity sewer installation completed Q4 2022.

*Reflects CSO Funding, does not include other project funding sources.
**Blake Street Lift Station Improvements was added as a contract change order to the Riverview Lift Station Replacement Project.

SCHEDULE DETAIL

The schedule below reflects the 2021 Long Term Control Plan (LTCP) Update. Projects are no longer classified as Major Projects or Sewer Separation Projects. The City has not yet received a final CSO Permit but anticipates that these dates will be in the permit. On March 31, 2022 the City requested modifications to three LTCP milestone dates. These dates have been agreed upon by Nebraska Department of Environment and Energy (NDEE), but not formally adopted. The Combined Sewer Overflow (CSO) Program is maintaining the overall schedule to meet current regulatory expectations.

Project Name	LTCP Milestone[1]	Current Status[2]
Papillion Creek North (PCN) 210 Sewer Separation	12/31/2022 (12/31/2023)[3]	Under Construction
Cole Creek CSO 203 Sewer Separation Project (CSO)	12/31/2023	Under Construction
Saddle Creek Retention Treatment Basin	12/31/2023	Under Construction
Forest Lawn Creek Inflow Removal and Outfall Storm Sewer	12/31/2024 (12/31/2026)[3]	Under Construction
CSO 212 - 64th Avenue and William Street	6/30/2025	Final Design
Nicholas Street Sewer Extension - Phase 3B	6/30/2025	Under Construction
East Cole Creek Interceptor Rehabilitation	6/30/2026	Preliminary Design
CSO 119 South Barrel Conversion & Sewer Separation	6/30/2026 (12/31/2027)[3]	Preliminary Design
CSO 202 Phase 2 - 70th Avenue and Spencer Street	12/31/2026	Final Design
Minne Lusa Relief Sewer Diversion Modifications	6/30/2028	Future
61st & Radial Storm Sewer	12/31/2028	Future[4]
Grace St and North Interceptor DWF Diversion Rehabilitation	12/31/2028	Future
CSO 105 Outfall Active Control	6/30/2029	Future
CSO 204 Phase 4a - 57th Street and Pratt Street	6/30/2030	Preliminary Design
North Downtown Conveyance Sewer - 11th and Izard to 6th and Abbott	6/30/2030	Future
CSO 204 Phase 4b - 56th Street and Bedford Avenue	6/30/2032	Preliminary Design
11th & Izard Grit and Screening Facility	6/30/2033	Future
11th and Izard Active Control	6/30/2033	Future
Northeast Omaha RTB - 6th Street and Abbott Drive	6/30/2034	Future
Jones Street to Leavenworth Diversion	12/31/2035	Future
21st and Cuming Active Control	6/30/2037	Future
Hickory Street Sewer Separation	6/30/2037	Future
Pierce Street Sewer Separation	6/30/2037	Future
Leavenworth Basin Storage Tank (CSO 109)	6/30/2037	Future

1–LTCP Milestone is the date of substantial completion for sewer separation projects and operationally complete for facility projects.
2–Future projects are not scheduled to start yet.
3–Requested modification date.
4–Designer selection has been made.

PROJECT STATUS LIST

PROJECT AND CONTRACT PROGRESS STATUS OVERVIEW (THROUGH FOURTH QUARTER 2022)					
	Future Projects	Study and Design	Bid/ Construction	Complete	Total
Number of Long Term Control Plan Projects	13	6	8	28	55
Number of Long Term Control Plan Project Construction Contracts	13	6	13	48	80

Note: As part of adaptive management, 39 Long Term Control Plan projects have been removed, combined, or pooled; this includes 13 that were eliminated due to the change in the Minne Lusa permit modification in June 2017. With this change, 15 contracts were eliminated.

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
53869	1	CSO 202 Phase 2 – 70th Avenue and Spencer Street	$10–15 Million			✓		Bid advertisement expected in Q3 2023.
53899	4	Hickory Street Sanitary Sewer Service Relocation	<$1 Million			✓		Construction bid advertisement expected in Q1 2023.
51685	3	CSO 212 – 64th Avenue and William Street	$5–10 Million			✓		Construction bid advertisement is expected in Q1 2023 with construction start in Q3 2023.
53149	4	CSO 119 South Barrel Conversion & Sewer Separation	$10–15 Million		✓			Design RFP advertised in Q4 2022 for new design consultant.
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 Q1 2023.
54293	1	East Cole Creek Interceptor Rehabilitation	$5–10 Million		✓			Conceptual Design started in Q4 2022.
54374	1	61st and Radial Storm Sewer	$15–20 Million	✓				Approval of design consultant contract expected in Q1 2023.

1–Current Opinion of Probable Construction Cost, which reflect escalated 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	CSO 202 Phase 2 – 70th Avenue & Spencer Street
Project Type	Conveyance	Sewer Separation	Sewer Separation
Bid Advertisement (estimated)	Q1 2023	Q1 2023	Q3 2023
Begin Construction (estimated)	Q2 2023	Q3 2023	Q1 2024
Construction Estimate	< $1 Million	$5–10 Million	$10–15 Million

PUBLIC OUTREACH SUMMARY

In 2022, the CSO Program facilitated engagement with neighborhoods and the general public both in person and virtually. In addition to sharing timely and accurate project information, these efforts strengthened relationships and supported community acceptance of Long Term Control Plan improvements.

- Four neighborhood-focused meetings informed property owners and businesses about upcoming projects in their area. The Program also created on-demand, narrated presentations and short videos for people unable to attend in-person meetings.
- In-person youth outreach resumed in 2022. The Program participated in World O' Water and facilitated an event for elementary school students at Fontenelle Lagoon. In total, more than 200 youth were engaged during these events.
- The CSO information line received 62 calls with topics ranging from bills, sewer maintenance and project schedules.
- Two e-newsletter updates were sent to a list of 700+ subscribers with project updates, Program goals, budget details, contractor opportunities and more.

WEBSITE SUMMARY

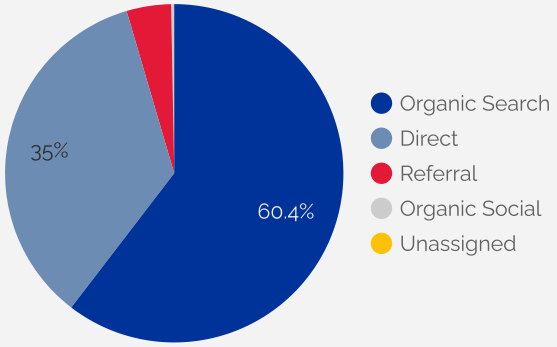
Use of the Omaha CSO Program's public website is tracked and Q4 2022 summary information is provided on the following page, showing continued active public use of the website. The website is located here: ***www.OmahaCSO.com***

Oct 1, 2022 - Dec 31, 2022

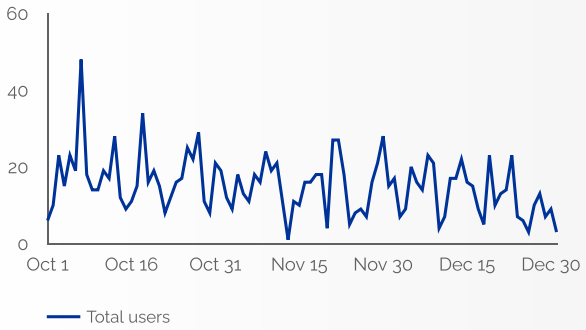
Omaha CSO Outreach Summary

Total users	New users	Engaged sessions	Views	Average Engagement TIme
1,232	1,200	683	2,474	00:01:38

Sessions by Acquisition Type



Users per Day



Referrals & Social Media Sources

	Session source	Engaged sessions
1.	oppd.com	13
2.	mud.co1.qualtrics.com	4
3.	hpnaomaha.org	3
4.	m.facebook.com	2
5.	app.gqueues.com	2
6.	keepitcurrentomaha.co...	2
7.	dot.nebraska.gov	1

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Sessions by Regional Cities (NE & IA)

	City	Engaged sessi...	Total users
1.	Omaha	303	359
2.	Lincoln	29	38
3.	(not set)	15	13
4.	Des Moines	9	26
5.	Bellevue	5	10

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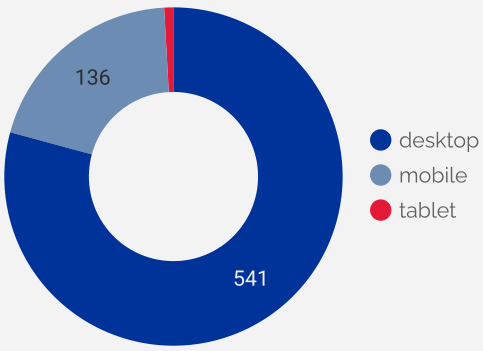
Sessions by Device Type



Top Pages/Page Views

	Page title	Views
1.	Home :: Omaha CSO	749
2.	About the Program :: Omaha CSO	205
3.	Contractors' Corner :: Omaha CSO	146
4.	Project Map :: Omaha CSO	146
5.	Saddle Creek Retention Treatment Basin...	140
6.	Public Meetings & Outreach :: Omaha CS...	84
7.	East Cole Creek Interceptor Rehabilitatio...	82
8.	Construction :: Omaha CSO	58
9.	Future :: Omaha CSO	56
1...	Long term Control Plan :: Omaha CSO	50

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PROJECTS UNDER CONSTRUCTION

BURT-IZARD LIFT STATION IMPROVEMENTS

Project Description:
The existing Burt-Izard Lift Station was originally constructed in the 1960s and initially had a capacity to pump 50 million gallons per day during wet weather events. However, because of significant grit loadings to the facility, the condition of the old South Interceptor Force Main, and the historical lack of treatment capacity at the Missouri River Water Resource Recovery Facility (MRWRRF), for decades this facility has only operated at 25 million gallons per day during wet weather events.

Construction efforts for the Burt-Izard Lift Station Improvements Project included upgrades to the grit building and overall grit handling capacity, bar screen room and lift station. The improvements required upgrades to the electrical, structural, architectural, instrumentation, heating, ventilation, air conditioning and process elements of the facility to meet new code requirements and for operations and maintenance of the upgraded facility. The improved facility restored the firm capacity of the facility to pump 50 million gallons per day into the new South Interceptor Force Main for subsequent treatment at the expanded and upgraded MRWRRF. This project is completed.

OPW Project Number: 52472

COLE CREEK CSO 204 AREA – PHASE 3 COMBINED SEWER SEPARATION

Project Description:
The **Cole Creek CSO 204 Area – Phase 3 Combined Sewer Separation Project** is phase three of approximately four phases of work planned within the Cole Creek 204 basin that will convert the existing combined sewers to separated sewers. It will ultimately result in reduced sewer backups into area homes and reductions in combined sewer overflow volume and flow rate in Cole Creek.

It is bordered on the north by Brown Street, on the east by 52nd Street, on the south by Northwest Radial Highway, and on the west by Cole Creek.

The Phase 3 Project includes a new sanitary sewer in Taylor Street, Sahler Street, Sprague Street, North 56th Street, and Ruggles Street. The sanitary sewer will connect to a separated downstream sanitary sewer. This project is completed.

OPW Project Number: 53206

MISSOURI RIVER WATER RESOURCE RECOVERY FACILITY – TRANSFER LIFT STATION

Project Description:
The **Missouri River Water Resource Recovery Facility–Transfer Lift Station Pump Replacement Project** was identified to replace the existing five wastewater pumps that have had operational and reliability issues since being placed into service as part of the MRWRRF Schedule A project in 2014. The improvements also include replacement of the two existing stormwater pumps, bridge crane, and other ancillary equipment to support operation of the new pumps.

OPW Project Number: 53408 (Transfer Lift Station Pump Replacement)
Project Location ID on Figure 1: A
For additional information, see page 7.

RIVERVIEW LIFT STATION REPLACEMENT

Project Description:

The existing **Riverview Lift Station** was constructed in the 1960s and has the capacity to pump 3.5 million gallons per day (MGD) to the Missouri River Water Resource Recovery Facility (MRWWRF). A new lift station was needed to ensure flows from the Riverview and Grover Street sewers can be reliably pumped into the new South Interceptor Force Main and to maximize conveyance of wet weather flows to the MRWRRF. Lift station capacity is also needed to accommodate the Henry Doorly Zoo cleaning and draining of exhibits and facilities.

The new lift station was designed to have the capacity to pump 7.0 MGD and to help reduce CSO discharges. The location of the Riverview Lift Station Replacement Project is just west of the existing lift station, adjacent to Gibson Road. Work includes construction of two diversion structures at the existing Grover and Riverview Street combined sewers to capture flows and convey them to the new Riverview Lift Station.

OPW Project Number: 52402
Project Location ID on Figure 1: B
For additional information, see page 7.

BLAKE STREET LIFT STATION IMPROVEMENTS

Project Description:

The **Blake Street Lift Station Improvements Project** will be a new lift station near the intersection of Hascall and Blake Streets. The Blake Street Lift Station Improvements Project, in conjunction with the completion of the Riverview Lift Station Replacement Project will allow for the decommissioning of the Martha Street, Hickory Street, and Spring Street lift stations. The new Blake Street Lift Station will have an approximate capacity of 2 million gallons per day (MGD) and will receive combined flows from the Martha Street and Spring Street sub-basins. The lift station will send flows to the existing Grover Street combined sewer and then to the new Riverview Lift Station Replacement Project.

The Blake Street Lift Station Improvements Project was added as a change order to the Riverview Lift Station Replacement construction contract.

This project will allow for the abandonment of the Spring Street and Hickory Street Lift Stations, which have been in service for over 50 years. The Martha Street Lift Station will also be abandoned and the CSO 112 outfall will be monitored to determine if it can be eventually closed.

OPW Project Number: 53270
Project Location ID on Figure 1: I
For additional information, see page 7.

PAPILLION CREEK NORTH (PCN) 210 SEWER SEPARATION

Project Description:

The **Papillion Creek North 210 Sewer Separation Project** includes the construction of a combination of new sanitary sewer and new storm sewer to provide complete separation to the area.

In 2002 a combined sewer renovation project (RNCL 5788A) was completed in the area of 61st and Lake Street, which provided partial separation for the Papillion Creek North Basin. The PCN 210 Sewer Separation project includes construction of additional new sanitary sewer and new storm sewer which will complete the sewer separation for this basin. This project will ultimately result in reduced risk of sewer backups into area homes and reductions in combined sewer overflow volume into Papillion Creek.

OPW Project Number: 53320
Project Location ID on Figure 1: C
For additional information, see page 7.

COLE CREEK CSO 203 SEWER SEPARATION

Project Description:

The **Cole Creek CSO 203 Sewer Separation Project** includes construction of sanitary and storm sewers to provide sewer separation to 125 acres in the area.

This project includes construction of both sanitary and storm sewer and converts the existing combined sewer to either storm or sanitary sewer.

The primary objective of the Cole Creek CSO 203 Sewer Separation Project is to separate combined sewers in the area, reduce basement back-ups and potentially deactivate CSO 203 without increasing the peak stormwater discharge to Cole Creek.

This project will reduce the amount of stormwater entering the existing Cole Creek Interceptor, thereby maintaining capacity in the interceptor during storm events for the conveyance of sanitary flows. It will ultimately result in reduced sewer backups into area homes and reductions in combined sewer overflow volume and flow rate in Cole Creek.

OPW Project Number: 53059
Project Location ID on Figure 1: D
For additional information, see page 7.

FOREST LAWN CREEK INFLOW REMOVAL AND OUTFALL STORM SEWER

Project Description:

The **Forest Lawn Creek Inflow Removal and Outfall Storm Sewer Project** is one of a series of projects in the Minne Lusa Basin intended to remove and/or control inflow into the combined sewer system (CSS) and reduce the frequency, magnitude, and duration of CSOs.

This project specifically is intended to remove Forest Lawn Creek flows from the CSS system, which currently enters the CSS through a structure located near 36th and Hanover Streets.

This project will include sewer separation in specific areas to separate the stormwater and sanitary flows in the project area. Stormwater flows from Forest Lawn Creek will be directed to the Missouri River during all rain events providing additional capacity in the local collection system and reducing the potential for back-ups into basements and street flooding. This will also provide a significant reduction in CSOs in this area. Sanitary sewer flows will be directed to the conveyance sewers to the Missouri River Water Resource Recovery Facility for treatment.

OPW Project Number: 52470
Project Location ID on Figure 1: H
For additional information, see page 7.

SADDLE CREEK RETENTION TREATMENT BASIN

Project Description:

The purpose of the **Saddle Creek Retention Treatment Basin (SCRTB) Project** is to capture combined sewage and store or treat it during wet weather events. Combined sewage will be diverted from the Saddle Creek Sewer and conveyed to the SCRTB headworks, where large materials like cans, rocks, tree branches and floatable solids are removed using a grit pit and mechanical screens. Directly following screening, a disinfectant will be added to the combined sewage flows to kill or inactivate bacteria. The 3.3 million gallon basin will allow for solids to settle and be removed from the combined sewage. For small wet weather events, the combined sewage will be fully captured (retained) in the underground basin. For larger events, the underground basin will completely fill up and a dechlorination agent will be added just prior to flows discharging through an overflow channel to the creek.

When construction is complete, the RTB will capture and treat a combined sewage flow rate of up to 160 million gallons per day. The headworks and chemical storage and feed systems were designed to meet peak instantaneous flow rates up to 320 million gallons per day to allow for large flow variations into the basin and also the potential for treating higher flows in the future. The RTB will use dewatering pumps to empty the facility after a wet weather event has ended. These pumps will convey captured combined sewage volume into the downstream Papillion Creek Interceptor sewer for treatment at the Papillion Creek Water Resource Recovery Facility (PCWRRF). A new 60-inch gravity sewer was installed around the RTB facility to provide increased CSO flows to be conveyed to the PCWRRF at the onset and over the entire duration of a wet weather event.

The above ground improvements included a building to house controls, grit and screening equipment, and chemicals. The building will provide office space for full-time operations staff, some additional city offices and maintenance for the facility. This project will also include work in the Saddle Creek outfall channel to complete the improvements with energy dissipation structures and natural channel elements at the confluence with Little Papillion Creek.

An odor control system will be installed to address the risk of odors from the facility. The site will include fencing and lighting for security purposes.

OPW Project Number: 52049
Project Location ID on Figure 1: E
For additional information, see page 7.

NICHOLAS STREET SEWER EXTENSION, PHASE 3B

Project Description:

The **Nicholas Street Sewer Extension Phase 3B Project** includes further extension of the storm trunk sewer from the Phase 2 junction structure at 16th & Charles to the north and west to serve additional areas in the Burt-Izard Basin. The project has been broken up into two separate projects — Phases 3A and 3B. Phase 3A was completed Q3 2020.

Phase 3B includes the construction of 84-inch to 15-inch storm trunk sewer along 16th Street from just south of Charles to Pinkney Street. Additional storm sewers will be constructed in Corby Street, Lake Street, Grace Street, 18th Street and Florence Boulevard. All sewers will be constructed by open cut methods of construction. A new 12-inch sanitary sewer in 16th Street will replace an existing 8-inch sanitary sewer constructed in the 1880s. Additional sanitary sewers will be constructed in Willis Avenue and Corby Street.

This project will reduce the combined flows downstream of the project area and thereby reduce combined sewer overflows to the Missouri River. In addition, full pavement removal throughout the extent of the project will take place. Along 16th Street, the street pavement will be narrowed and provide bike lanes and parking. Restoration will include sidewalk replacement and ADA compliant ramps.

OPW Project Number: 53753
Project Location ID on Figure 1: F
For additional information, see page 7.

MONROE STREET LIFT STATION IMPROVEMENTS

Project Description:

The existing **Monroe Street Lift Station** was constructed in the 1960s as part of the South Interceptor Sewer Project. With three wet-weather pumps in service, the lift station has the capability to deliver up to 60 million gallons per day (MGD) but is currently limited to approximately 40 MGD based on the condition of the existing pumping equipment. The diversion structure, screens, and the lift station were designed to pump into the Missouri River Water Resource Recovery Facility (MRWRRF) via one 42-inch force main.

Construction efforts for the Monroe Street Lift Station Improvements Project include upgrading the diversion structure and lift station to reliably convey 60-65 MGD to the MRWWRF during wet weather events. Upgrades include refurbishing or replacing all equipment in the lift station, updating the facility to meet current code requirements, improving grit collection and removal, screenings improvements, structural refurbishment, and replacement of the existing pumps and motors. Real-time-controls and gate replacements will occur in the diversion structure to maximize conveyance of flows to the newly expanded MRWRRF headworks for treatment wet weather flows while reducing the number of CSO discharges at CSO 119.

The main benefits of this project will be a reduction of combined sewage discharged to the Missouri River and maximization of flows to the new MRWRRF headworks for treatment (up to 150 MGD) during wet weather events. Additional benefits will include a fully upgraded and reliable lift station which will reduce maintenance and operations efforts by City staff.

OPW Project Number: 53082
Project Location ID on Figure 1: G
For additional information, see page 7.

COMPLETED CONSTRUCTION CONTRACTS

Construction contracts that are substantially complete or operationally complete as of the end of the fourth quarter of 2021 are shown in the table below. Projects can be delivered through multiple construction contracts.

COMPLETED CONSTRUCTION CONTRACTS				
Omaha Public Works Project Number	Project Name[1]	Long Term Control Plan Project Name[1]	Completion Date	Final Construction Cost
52306	Cole Creek CSO 204, Phase 3	Cole Creek CSO 204 Area – Phase 3 Combined Sewer Separation (Taylor to Ruggles Between 56th & 61st)	Q2 2022	$4,818,100
52472	Burt-Izard Lift Station	Burt-Izard Lift Station Improvements Project	Q1 2022	$16,082,000
51997B	Missouri Avenue Sewer Separation, Phase 2	Missouri Avenue/Spring Lake Park Sewer Separation Phase 2	Q3 2021	$8,267,656
52931	18th & Fort Sewer Improvements[3]	18th & Fort Sewer Improvements[3]	Q3 2021	$3,761,248
52783	Leavenworth Lift Station, Flood Mitigation	Leavenworth Lift Station Contract 3 – Flood Mitigation	Q4 2020	$2,824,307
52721	Nicholas Street Sewer Separation, Phase 3A	Nicholas Street Sewer Separation, Phase 3A	Q3 2020	$1,423,654
52781	Hanscom Park Green Infrastructure	Stormwater Green Projects – Hanscom Park	Q1 2020	$2,268,884
53417	Cole Creek CSO 202 Sewer Separation, Phase 1	Cole Creek CSO Sewer Separation	Q1 2020	$1,167,181
51997A	Missouri Avenue/Spring Lake Park Mitigation Plantings	Missouri Avenue Sewer Separation Phase 1 – Mitigation Plantings	Q4 2019	$284,957
52648	Missouri River Water Resource Recovery Facility (MRWRRF), Schedule B2	Improvements to the Missouri River WWTP-Schedule B2	Q4 2019	$50,972,612
52659	Lake James to Fontenelle Park	Lake James to Fontenelle Park Sewer Separation	Q4 2019	$5,402,981
52257	42nd & Q Street Sewer Separation	42nd & Q Street Sewer Separation	Q3 2019	$2,891,774
52658	Lake James to Fontenelle Park	Lake James to Fontenelle Park, Lagoon	Q3 2018	$7,009,498
52223	South Interceptor Force Main (SIFM), North Segment	South Interceptor Force Main – North Segment	Q2 2018	$33,134,137
52184	Gilmore Avenue Sewer Separation Phase 1 and 2	OM 119-6 Gilmore Avenue Phase 1 & 2	Q4 2017	$10,692,062
52184A	Gilmore Avenue Detention Pond and Albright Park Landscaping	OM 119-6 Gilmore Avenue Phase 1 & 2 (Gilmore Avenue Detention Pond and Albright Park Landscaping)	Q4 2017	$296,819
52390A	Adams Park Landscaping Improvements	Minne Lusa 105-1; JCB and Miami Phase 1 and 2 (OPW 52165)	Q3 2017	$670,530
52881	42nd & Q Street Sewer Separation (Hitchcock Park Green Infrastructure)	42nd and Q Sewer Separation (Hitchcock Park Green Infrastructure)	Q3 2017	$382,441
52494	MRWRRF Bank Stabilization	Missouri River WWTP – Bank Stabilization	Q2 2017	$7,055,316
52193	49th Street and Caldwell Street Sewer Separation (RNC)[3]	49th and Caldwell Area Sewer Separation[3]	Q1 2017	$5,076,645

1–'Project Name' refers to project name used for public communication purposes. 'Long Term Control Plan Project Name' refers to project name used in the Long Term Control Plan and is shown for cross-reference purposes.
2–Substantially complete construction costs shown.
3–RNC Project. RNC refers to Sewer Renovations Projects that separate sewers for basement backup relief or to minimize street flooding, but don't provide water quality/CSO benefits and are not part of the Long Term Control Plan.

COMPLETED CONSTRUCTION CONTRACTS				
Omaha Public Works Project Number	Project Name[1]	Long Term Control Plan Project Name[1]	Completion Date	Final Construction Cost
52165 and 52390	John Creighton Boulevard (JCB) Stormwater Conveyance Sewer Project & Adams Park Project	John Creighton Boulevard (JCB) and Miami Street, Phase 1 Sewer Separation and Phase 2 Sewer Separation	Q4 2016	$20,865,053
52297	Nicholas Street Phase 2 to 23rd and Grace Sewer Separation	Nicholas Street Phase 2 to 23rd and Grace	Q4 2016	$18,419,352
52456	Vinton Street Green Infrastructure Project	Vinton Street Green Infrastructure Project	Q4 2016	$1,066,000
51875	Missouri River Water Resource Recovery Facility (MRWRRF), Schedule B1	Improvements to the Missouri River Water Resource Recovery Facility – Schedule B1	Q3 2016	$61,790,360
51995	Cole Creek CSO 204 Sewer Separation Phase 1	Cole Creek CSO 204 Sewer Separation Phase 1	Q3 2016	$4,571,645
51997	Missouri Avenue/Spring Lake Park Phase 1	Missouri Avenue Sewer Separation Phase 1	Q3 2016	$10,907,849
52049A	Saddle Creek Retention Treatment Basin (RTB), Early Soils Removal	Saddle Creek Retention Treatment Basin, Early Soils Removal	Q3 2016	$2,229,362
51817	39th Street & Fontenelle Street Sewer Separation Project[3]	39th Street & Fontenelle Street Sewer Separation[3]	Q4 2015	$1,355,642
51962	Webster and Nicholas Sewer Separation Phase 1	Nicholas and Webster Sewer Separation Phase 1	Q4 2015	$9,455,863
52570	Missouri River Water Resource Recovery Facility (MRWRRF), Wetlands Mitigation	MRWRRF: Wetlands Mitigation	Q4 2015	$411,319
51873	South Interceptor Force Main (SIFM), Central and South	South Interceptor Force Main – South Segment	Q3 2015	$20,181,295
51874	Leavenworth Lift Station Replacement	Leavenworth Lift Station Contract 2 – Lift Station	Q1 2015	$28,327429
51698	36th Street Sewer Separation (State Street to McKinley Street)	36th Street Sewer Separation	Q4 2014	$586,171
51777	Saddle Creek Area – 55th Street to 64th Avenue Sewer Separation	Saddle Creek Area – 55th Street to 64th Avenue Sewer Separation Project/ Bohemian Cemetery Sewer Separation	Q3 2014	$12,047,423
52200	Missouri River Water Resource Recovery Facility (MRWRRF), Schedule A	Missouri River WWTP – Schedule A	Q3 2014	$19,606,842
51941	Miller Park to Pershing Detention Basin Sewer Separation	Miller Park to Pershing Detention Basin Sewer Separation	Q2 2014	$5,468,154
51956	South Omaha Industrial Area Lift Station	Ohern/Monroe Industrial Lift Station, Force Main and Gravity Sewer	Q2 2014	$9,377,488
51957	South Omaha Industrial Area Force Main and Gravity Sewer	Ohern/Monroe Industrial Lift Station, Force Main and Gravity Sewer	Q1 2014	$4,880,064
51151	Aksarben Village Neighborhood Sewer Separation Project & Elmwood Park	Aksarben Village, Phase A & B	Q4 2013	$8,171,894
52134	Martha Street Sewer Separation, Martha Street to Riverview Lift Station Phase 1	Martha Street Sewer Separation, Phase 1: Martha Street to Riverview Lift Station, Phase 1	Q4 2013	$1,988,156

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COMPLETED CONSTRUCTION CONTRACTS				
Omaha Public Works Project Number	Project Name[1]	Long Term Control Plan Project Name[1]	Completion Date	Final Construction Cost
52187	Martha Street Sewer Separation, Lauritzen Gardens Sanitary & Storm Sewer Separation	Martha Street Sewer Separation, Phase 1: Lauritzen Gardens Sanitary & Storm Sewer Separation	Q4 2013	$8,025,531
52188	Martha Street Sewer Separation, Lauritzen Gardens Storm Sewer Grading and CSO Abandonment	Martha Street Sewer Separation, Phase 1: Lauritzen Gardens Storm Sewer & CSO Abandonment	Q4 2013	$553,233
50588	Country Club Phase 2 Sewer Separation[3]	SC RNC 205-1; Country Club Phase 2 Sewer Separation[3]	Q3 2013	$5,573,142
51686	Pacific Street – 63rd to 66th Sewer Separation	CSO 211 Sewer Separation	Q3 2013	$346,341
51892	Nicholas Street Phase 1	Nicholas Street Phase 1 (10th Street to 16th Street)	Q3 2013	$15,514,610
52246	Gunderson Rail Property Demolition	Minne Lusa Stormwater Conveyance Sewer	Q2 2013	$622,681
51661	20th Street and Poppleton Street Sewer Separation[3]	20th & Poppleton Sewer Separation (19th to 24th; Pierce to Woolworth)[3]	Q4 2012	$5,837,273
51880	Martha Street Sewer Separation, Martha Street Area – Residential Combined Sewer Separation	Martha Street Sewer Separation, Phase 1: Martha Street Area – Residential Combined Sewer Separation	Q4 2012	$796,579
52199	Leavenworth Lift Station Contract 1 – Site Preparation	Leavenworth Lift Station Replacement	Q2 2012	$946,824
52209	Nicholas Street Former Economy Products Building Demolition Contract	Nicholas Street Phase 1 (Economy Products Building Demolition)	Q2 2012	$531,728
51497	24th Street and Ogden Street Sewer Separation[3]	24th Street and Ogden Street Sewer Separation[3]	Q1 2011	$2,738,814
50986	42nd Street and X Street Sewer Separation	42nd Street and X Street Sewer Separation	Q4 2010	$942,149
51861	South Omaha Industrial Area Sewer Separation (SOIASS)	Ohern/Monroe Industrial Flow Area Sewer Separation	Q4 2010	$1,731,390
51503	Webster Street Sewer Separation Phase 2	Webster Street Phase 2 (Burt-Izard-108-3A)	Q3 2010	$6,896,264
51784	Spring Street Sewer Separation	Spring Street Sewer Separation	Q2 2010	$113,710

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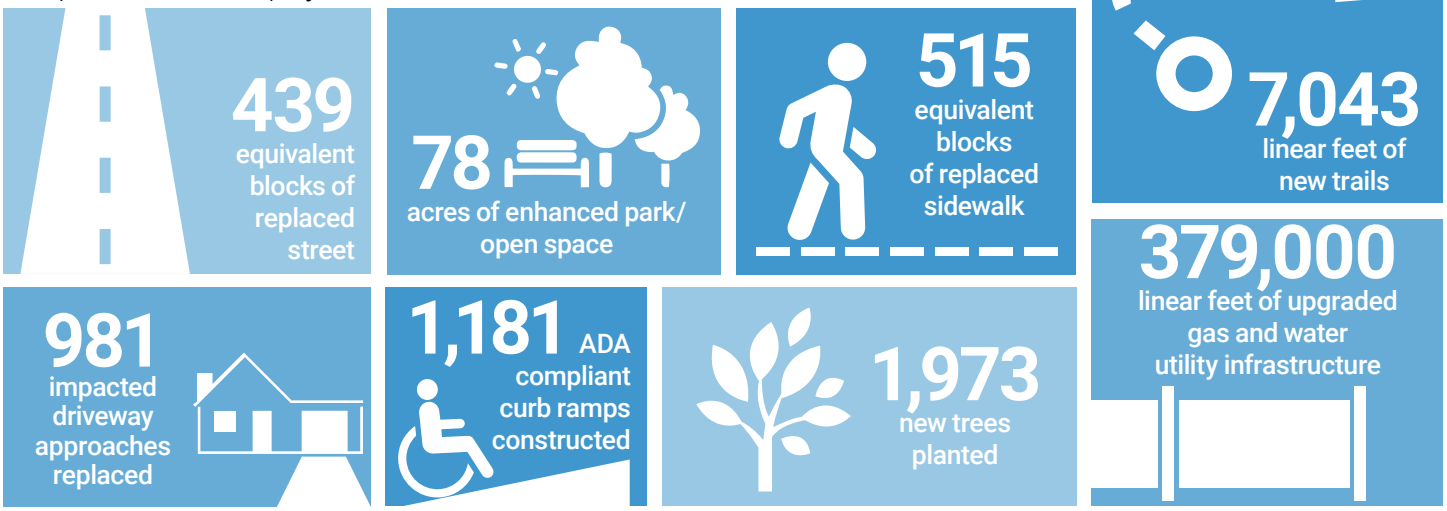
ADDITIONAL PUBLIC BENEFITS

In addition to the newly constructed and/or rehabilitated storm and sanitary sewer pipe, Program projects included the reconstruction of adjacent infrastructure as integral components of those projects.



Includes 31 completed or underway projects as of fourth quarter, 2022, since the inception of the Program.

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.
- Review construction sites for 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. On March 31, 2022, the City requested modification of LTCP/Permit Milestone dates. While these dates have been agreed upon by NDEE, they are not formally adopted. Revised dates are hatched in the chart below.

Milestone Schedule of Long Term Control Plan Projects*

Missouri River Watershed Projects	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
MINNE LUSA (ML) BASIN															
Forest Lawn Creek Inflow Removal and Outfall Storm Sewer															
Minne Lusa Relief Sewer Diversion Modifications															
Grace St and North Interceptor 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 Sewer Separation															
SOUTH INTERCEPTOR (SI) BASIN															
Pierce Street Sewer Separation															
Jones Street to Leavenworth Diversion															
Hickory Street Sewer Separation															
LEAVENWORTH (LV) BASIN															
Leavenworth Basin Storage Tank (CSO 109)															
Papillion Creek Watershed Projects															
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															
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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February, 2023