

City of Greeley Stormwater Board Meeting April 6, 2022

Meeting Location:
1001 11th Avenue, Room 227, 4:30 p.m.



Stormwater Board Agenda

April 6, 2022, 4:30 PM
1001 11th Avenue, #227

I. Call to Order

II. Roll Call

III. Approval of February Minutes

IV. Changes to the Agenda & Announcements

V. Budget Update

Karen Reynolds / Purpose: Informational

VI. MS4 Audit

Brian Hathaway / Purpose: Informational

VII. 12th Street Outfall Project Karen Reynolds / Purpose: Informational

VIII. Adjournment



Changes to Agenda & Announcements

1. Any changes or additions to Agenda?
Introduce Philip Taylor to the Stormwater Board
1. Announcements: Personnel Changes
3. Progressing on 12th Street Outfall bond.

2022 Revenue

Fund	Sum of Budget	Sum of YTD Receipts	Sum of Balance
Stormwater	3,269,884	708,396	2,561,488
Stormwater Construction	17,943,405	490,706	17,452,699
Stormwater Replacement	2,332,987	454,038	1,878,949
Grand Total	23,546,276	1,653,139	21,893,137

2022 Expenditures

Fund	Sum of Budget	Sum of YTD Expenses	Sum of Balance	% of Budget Spent to Date
Stormwater	3,445,598	183,961	3,261,637	5.3%
Stormwater Construction	16,919,573	540,910	16,378,663	3.2%
Stormwater Replacement	2,658,809	1,005,019	1,653,790	37.8%
Grand Total	23,023,980	1,729,890	21,294,090	7.5%



Stormwater Accounts added in 2022: 109 as of March 31

EPA / CDPHE Audit Update



Clean Water Act

Municipal Separate Storm Sewer System (MS4) Overview

NPDES

MS4

- Phase II permits required of every city and county with more than 50,000 people
- Federally mandated by the EPA
- Designates stormwater as a point source
 - 1990's stormwater was identified as the greatest source of surface water pollution
- CDPHE administers permits and audits permittees



MS4 Control Measures



1. Public Involvement/Participation
2. Public Education and Outreach
3. Illicit Discharge Detection and Elimination
4. Construction Sites
5. Post-Construction Stormwater Management
6. Pollution Prevention/Good Housekeeping for Municipal Operations



Lessons Learned from Colorado Springs

- EPA audit led to:
 - Enforcement actions
 - DOJ lawsuit
 - Civil penalty (\$2.125 million)
 - Legal fees (\$5 million)
 - Consent decree (\$500 million over 15 years)
- The following slides are from a Colorado Springs presentation



Consent Decree Summary/Progress

15 year decree (some components may be relieved in accordance with pre-negotiated milestones) – About \$45M of additional expenditures above the \$460M from the City of Colorado Springs/Pueblo County IGA

- Injunctive Relief
 - Construction Sites Program
 - New Development and Redevelopment Program
 - Audits
 - Water Quality Credit Program
- Mitigation Projects
- Documentation, Tracking, and Reporting

Progress in the City of Colorado Springs

Claimed Expenditures

(Actual Expenditures and Encumbered Funds)	Total (2016-2020)	2021
Drainage O&M/MS4 Program	\$41,301,035	\$7,160,556
Stormwater Capital Projects	\$56,280,278	\$13,100,000
Colorado Springs Utilities (SSCC Program)	\$15,846,580	\$3,340,083
Total	\$113,427,893	\$23,600,639

Lessons Learned

- Fractured approach to MS4 program compliance was not a good approach for the City of Colorado Springs
 - Specific stormwater review group and grading and erosion control inspection group have proven to be critical
- Specific language in permit, criteria, and code matter greatly. The exact language must be followed. There is little to no room for engineering interpretation
- Issues never go away. Time does not fix mistakes or overlooked issues
- The City must follow enforcement procedures to the exact letter of the criteria and City Code
- Stormwater plan reviews must be detailed and correct
- You must respond to audit finds and communicate with the State as much as possible
- The City must adequately fund and staff the stormwater program
- Private and public permanent control measures must be designed, built, and maintained correctly. The City is ultimately responsible

Update on Greeley's Audit

- First audit in the history of the program (21 years)
- CDPHE falling behind on audits, EPA is stepping in
 - EPA direction is to audit once a permit term
- New online self-assessment tool
 - Been used successfully in Region 6
 - First time this tool in being used in Colorado and Region 8
 - Mesa County has since been notified of an audit
 - 30 days to provide all requested information



Update on Greeley's Audit

- Six modules
 - One for each control measure
- Many questions beyond permit requirements
- Notified CAO
- Mesa County hiring outside council
- We are taking more cooperative, but defensive approach
 - Received confirmation, in writing, of questions that are above permit requirements
 - Providing requested information, with disclaimer



Update on Greeley's Audit

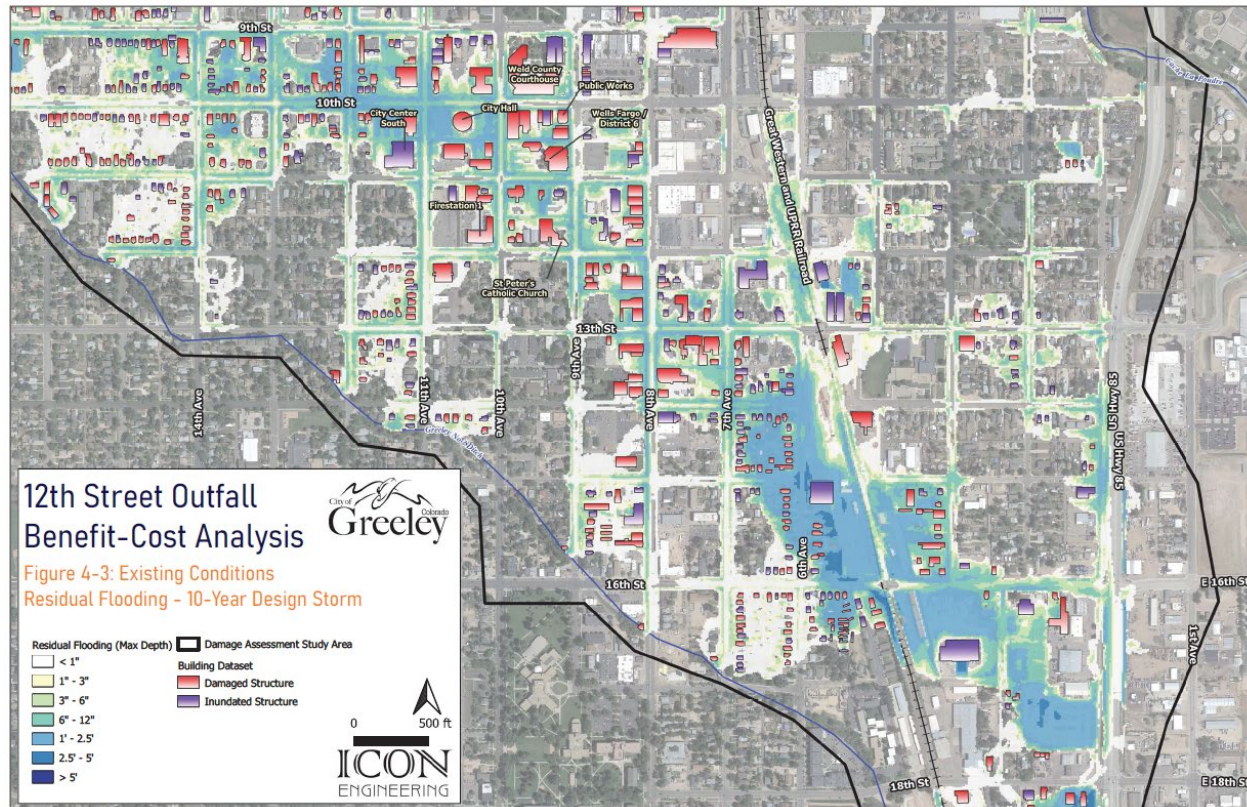
- Staff is conducting full program evaluation
 - Major issues = onsite EPA/CDPHE full program review
- Minor issues so far
 - Interdepartmental coordination (documentation)
 - Staffing limitations (inspection/in depth plan review)
- Identified potential improvements
 - Training
 - Improvement of processes
 - Additional staff
 - Design criteria additions to proactively address future permit requirements
- Confident about outcome
- Questions?



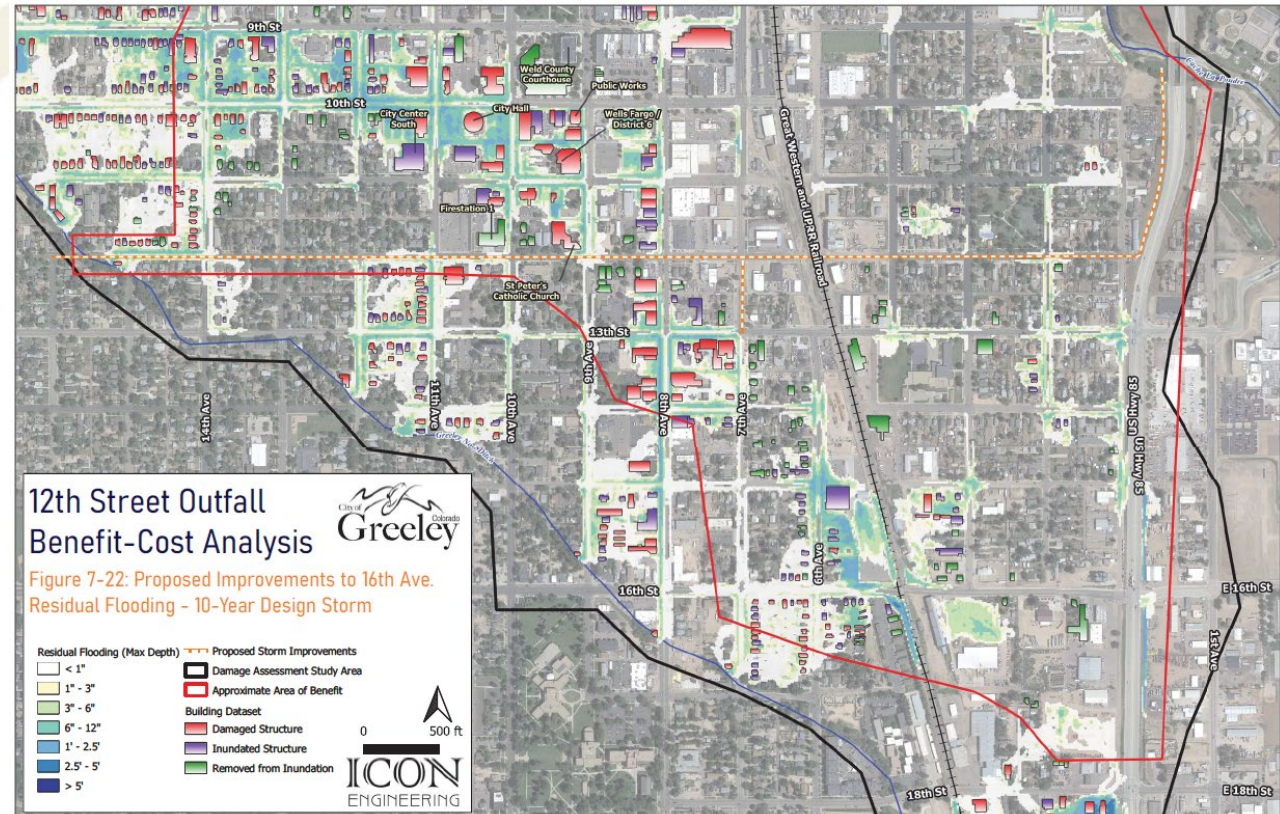


12th Street Outfall

12th Street Storm Outfall Phase 1



Existing



Phases 1-7 Completed (2032)

12th Street Storm Outfall Phase 1



12th Street Storm Outfall Phase 1

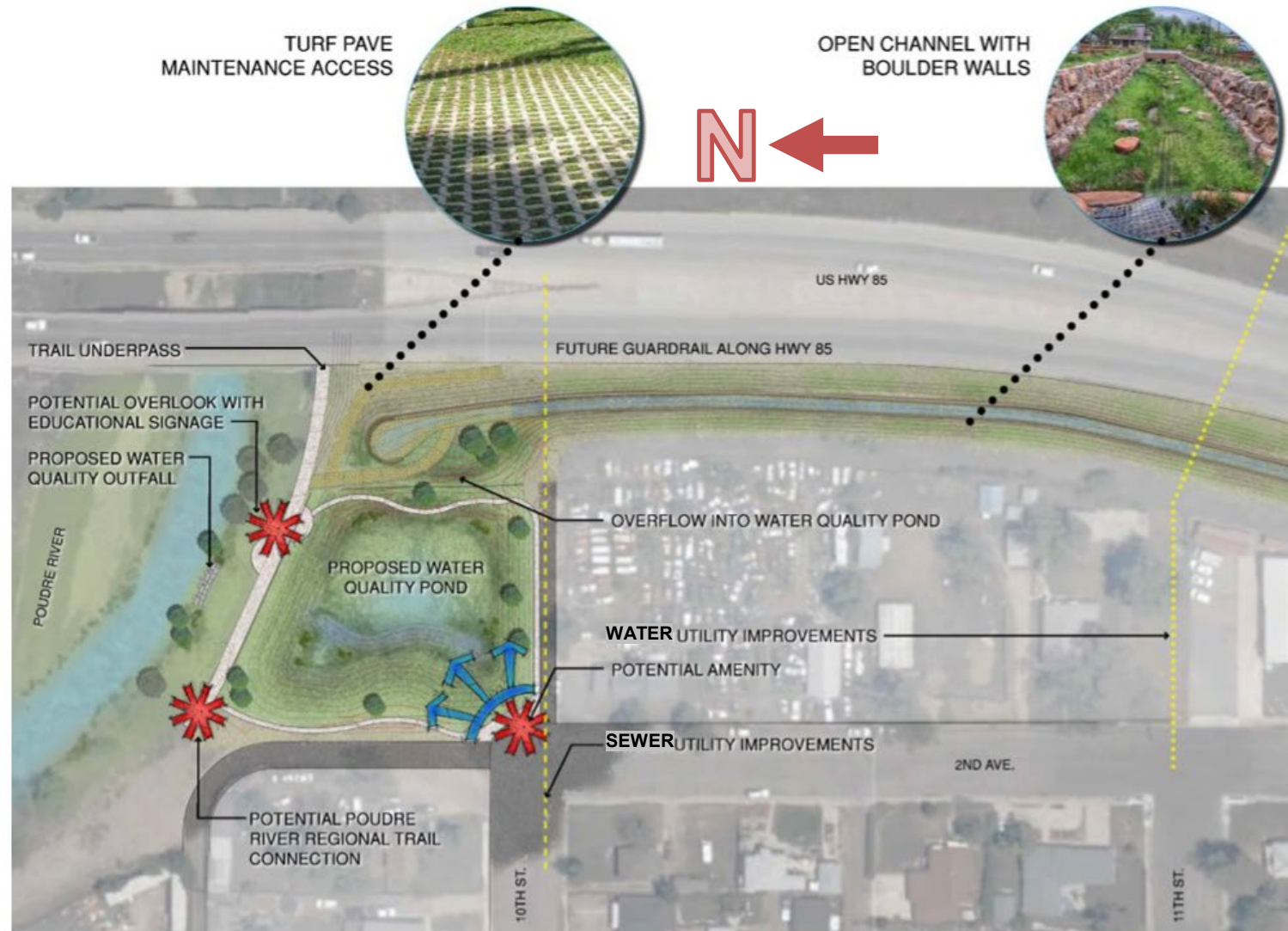
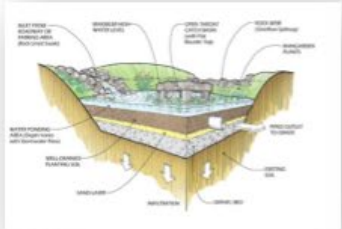
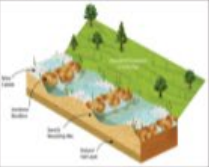
E Coli “Treatment Train”



Regenerative Stormwater Conveyance

RAA: regenerative stormwater conveyance, coastal plain outfall, regenerative steep pool storm conveyance (SPSC), regenerative stream channel

- Series of riffles and pools
- Sand and woodchip fill
- Rock weirs



12th Street Storm Outfall Phase 1

PRECONSTRUCTION SCHEDULE

CONNELL

- March 2022 – Hired **Connell Resources** for Preconstruction Services through competitive proposals
- April 13 – Phase 1A 90% and Phase 1B 50% Review Meeting
- June – 90% Design Completed
- August – Construction Contract
- September – Notice to Proceed

12th Street Storm Outfall Phase 1

DRAFT CONSTRUCTION SCHEDULE*

- September – 3rd Ave/9th Street, 2nd Ave/11th Street, Begin Utility Work and Pond Excavation
- Oct-Dec - Outfall to River
- Jan-Feb 2023 – River Restoration
- Feb-March 2023 – 2nd Ave/10th Street
- Mar-Apr 2023 – Box Culvert and Open Channel
- May-Aug 2023 – Final Pond grading and landscaping

***subject to change**



NOTE: Phase 2 and 3 Design RFP in early 2023

12th Street Storm Outfall Phase 1

BUDGET

- 15% Rate Increase Approved by City Council in October
- \$17 M bond executed in March 2022
- Awarded \$0.25 M FEMA grant for design in January
- Contractor will provide preliminary pricing in April 2022 – project appears to be under budget

12th Street Storm Outfall Phase 1

AESTHETICS



ICON Engineering – 2020 CASFM Project of the Year
– Sanderson Gulch Outfall



Madison Valley Stormwater Project - Seattle



Project-Specific Aesthetics still being designed



Questions?

