City of Colorado Springs
Stormwater Enterprise

Stormwater Control Program
Inter-Governmental Agreement (IGA)
Annual Report of Preliminary Expenditures

Calendar Year 2021

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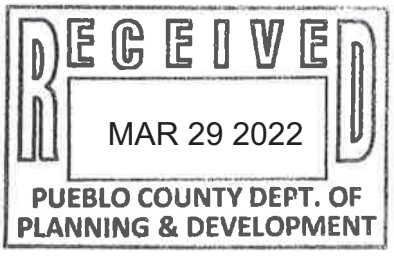

Prepared for:

Pueblo County

Submitted by:

City of Colorado Springs

Colorado Springs Utilities

COLORADO SPRINGS
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Colorado Springs Utilities
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March 2022

Contents

Definitions and Acronyms

BMPs	Best Management Practices
Capital Project	A project for the construction of facilities and infrastructure undertaken primarily to provide stormwater control (e.g., stormwater detention ponds, or channel preservation, restoration, or stabilization), with a monetary value of at least $50,000 and long life (at least five years), and which results in the creation of a fixed asset or a significant revitalization that upgrades and extends the useful life of a fixed asset.
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Public Health and Environment
CDPS	Colorado Discharge Permit System
City	City of Colorado Springs
CIP	Capital Improvements Program
CIP List	Capital Improvements Project List
CMP	Corrugated Metal Pipe
Construction	Activities including studying, land acquisition, planning, engineering, bidding, permitting, construction, construction management, project management, testing and commissioning.
DBPS	Drainage Basin Planning Study
DCM	City of Colorado Springs Drainage Criteria Manual
Drainage Operations Program	City of Colorado Springs Public Works Operations and Maintenance Division, Drainage Operations Program
Encumbered Funds	Monies which are appropriated and placed into a fund or account restricted (I) for payment of an authorized Stormwater Control Program activity and cannot be obligated or used for any other purpose, and (2) for payment of capital construction projects for which appropriate steps are being undertaken in a timely manner to advance towards physical construction.
Expenditures	Both actual expenditures and encumbered funds.
FCWFCGD	Fountain Creek Watershed Flood Control and Greenway District
FEMA	Federal Emergency Management Agency
HBA	Home Builders Association
IGA	Intergovernmental Agreement between Pueblo County and the City of Colorado Springs and its Utility Enterprise (entered as of April 27th, 2016)
LOMR	Letter of Map Revision

MMFAC	FCWFCGD Monetary Mitigation Fund Advisory Committee
MS4	Municipal Separate Storm Sewer System
MS4 Permit	Authorization under the Colorado Discharge Permit System to discharge stormwater and from emergency firefighting activities from the municipal separate storm sewer system (MS4) owned and operated by the City of Colorado Springs
O&M	Operations and Maintenance
Parties	Parties to the IGA to include Pueblo County and the City of Colorado Springs and its utility enterprise, Colorado Springs Utilities.
PDM	FEMA Pre-Disaster Mitigation Grant Program
PPRTA	Pikes Peak Rural Transportation Authority
SCM	City of Colorado Springs Stormwater Construction Manual
SIMP	Stormwater Infrastructure Master Plan
Stormwater Capital Improvements Program (CIP)	An annually updated plan of expenditures for Capital Projects for stormwater control with estimated costs, sources of funding, and schedule of work over a five-year period, including those Capital Projects required by the IGA.
Stormwater Control Program	City and Utilities' program to control and mitigate the rate, volume, and quality of stormwater flows and associated erosion and sedimentation in or near the City, and includes a CIP, provisions for operation and maintenance of the City's stormwater facilities, compliance with the City's MS4 Permit, and protection of Utilities infrastructure from stormwater.
SSCC	Colorado Springs Utilities Sanitary Sewer Creek Crossing Program
SWENT	City of Colorado Springs Stormwater Enterprise
TAC	Fountain Creek Watershed Flood Control and Greenway District, Technical Advisory Committee
TMDL	Total Maximum Daily Load
UDFCD	Urban Drainage Flood Control District
USACE	United States Army Corps of Engineers
USEPA/EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
Utilities	Colorado Springs Utilities
WWE	Wright Water Engineers

Executive Summary

The City of Colorado Springs (City), Colorado Springs Utilities (Utilities), and Pueblo County (together referred to as the Parties) entered into an Inter-Governmental Agreement (IGA) on April 27, 2016. Pursuant to the terms of the IGA, the City and Utilities agreed to invest $460 million dollars on the City's Stormwater Control Program over a 20-year period. The IGA describes the responsibilities of the City and Utilities associated with these stormwater management and control efforts.

The purpose of this annual report is to provide appropriate details concerning the timing, amount, and nature of expenditures made by the Stormwater Control Program during the prior year (2021) for Capital Projects included as part of the IGA, stormwater-related operations and maintenance activities, Municipal Separate Storm Sewer System (MS4) Permit compliance, and protection of waterways adjacent to Utilities infrastructure.

Reporting Requirements

Each year the City has committed to file with Pueblo County a report containing an estimate of expenditures on or before January 31 of the year following the expenditures, followed by the filing of a preliminary expenditures report on or before March 31, and a final expenditures report to be filed on or before June 30 of that year based on audited financial information.

The following contains a summary of Stormwater Control Program activities and a report of preliminary expenditures for the 2021 calendar year. This report represents the beginning of sixth annual report series since 2016. Per the IGA, for the purpose of this report, "…expenditures mean both actual expenditures and encumbered funds. 'Encumbered funds' shall mean monies which are appropriated and placed into a fund or account restricted (1) for payment of an authorized Stormwater Control Program activity and cannot be obligated or used for any other purpose, and (2) for payment of capital construction projects for which appropriate steps are being undertaken in a timely manner to advance towards physical construction."

Summary of Preliminary Expenditures for the 2021 Calendar Year

The City and Utilities are required collectively to invest a minimum of $16.5 million per year on the City's Stormwater Control Program. The minimum expenditure requirement (actual and encumbered) has been met for the 2021 Calendar Year reporting period as outlined below. Between 2021 and 2025, the City and Utilities are expected to invest a total of $110 million dollars at an average of $22 million dollars per year. The 2021 calendar year represents the sixth year of the IGA and the first year of the current 5-year investment period.

As of December 31, 2021, the City and Utilities have invested (through either expenditures or encumbrances) a total of **$21.8 million dollars** on the City's Stormwater Control Program in 2021. This includes actual expenditures and/or annual encumbrances of:

- $ 9.2 million associated with the City's Drainage O&M and MS4 program (Annual Encumbrance)

- $ 9.0 million associated with the City's Stormwater Capital Projects program (Annual Encumbrance)
- $ 3.6 million by Utilities Sanitary Sewer Creek Crossing Program (Actual Expenditure)

Expenditures for the 2021 Calendar Year

IGA Requirement	Minimum Total Expenditures	Average Annual Expenditures	Minimum Annual Expenditures
First Five Years (2016-2020)	$100 Million	$20 Million	$16.5 M/yr.
Second Five Years (2021-2025)	$110 Million	$22 Million	$16.5 M/yr.

Claimed Expenditures

(Actual Expenditures and Encumbered Funds)	Total (2016-2020)	**2021**	Subtotal (2021-2025)	Total (2016-2021)
Drainage O&M/MS4 Program	$41,301,035	**$9,224,194**	$9,224,194	$50,525,229
Stormwater Capital Projects	$56,280,278	**$9,000,000**	$9,000,000	$65,280,278
Colorado Springs Utilities (SSCC Program)	$15,846,580	**$3,632,568**	$3,632,568	$19,479,148
Total	$113,427,893	**$21,856,762**	$21,856,762	$135,284,655

Summary of Stormwater Control Program Activities

Below is a summary of actual expended dollars between the 2016 and 2021 calendar years:

Program Dollars Spent	Total (2016-2020)	**2021**	Subtotal (2021-2025)	Total (2016-2021)
Drainage O&M	$18,719,097	**$3,427,366**	$3,427,366	$22,146,463
Stormwater MS4 Program	$21,010,941	**$6,214,259**	$6,214,259	$27,225,200
Stormwater Capital Projects	$50,837,527	**$5,274,796**	$5,274,796	$56,112,323
Colorado Springs Utilities (SSCC Program)	$15,846,580	**$3,632,568**	$3,632,568	$19,479,148
Total	$106,429,145	**$18,548,989**	$18,548,989	$124,978,134

Capital Projects Undertaken During the Reporting Period

- IGA Projects – A total of twenty (20) IGA projects were scheduled to continue, be completed, or commence in 2021. This included a continuation of Emergency Projects, Grant Projects, Water Quality Projects, and seventeen (17) specifically negotiated IGA project as outlined below. At the completion of the reporting period, the scheduled 2021 IGA projects were generally in the engineering phase of the projects, while the 2016-2020 IGA projects had either been completed, were under construction, or were continuing through the engineering phase.

  Of the $5,274,796 expended, a total of $5,089,391 was spent on specifically negotiated IGA projects during the reporting period, with an additional $185,405 invested on other Stormwater related projects during the period. The table below details project expenditures related to the IGA projects.

IGA CAPITAL PROJECTS

IGA Project No.	Project Name	Actual Spent ($)
109	Bear Creek Channel Stabilization (2018)	69,980
11	Camp Creek Phase I (2018)	(3,372)
106	Cottonwood Creek Austin Bluffs to Bus Barn (2021)	40,685
65	Cottonwood Creek Detention Basins (2017)	298,857
59	Cottonwood Creek-Monument Creek to Academy (2020)	5,548
1	Emergency Stormwater Projects (2021)	1,682,781
0	FEMA Grant Projects (City Funds) (2016)	55,599
7	Fairfax Tributary Detention Pond (2016)	35,394
105	Flying Horse Pond 1 Retrofit (2019)	242,111
21	Monument Creek at Talemine (2020)	928,154
23	North Chelton Road (CS-057) (2018)	604,057
16	North Douglas Channel (2019)	13,690
103	Pine Creek Channel Ph I (2018)	353
104	Pine Creek Channel Ph 2 (2020)	77,586
111	South Douglas Sinton Trail Imps. (2022)	20,592
51	Storage Cottonwood Park-PR15 (2026)	118,079
40	Storage Mt. Woodmen Court (2026)	375,689
34	Storage Sand Creek Pond 2 (2019)	50,988
6	USAFA Drainages (Monument Branch) (2016)	20,915
110	USAFA Supplemental Black Squirrel Creek (2022)	249,333
13	Water Quality Projects (2016-2020)	173,469
Various*	Project Scoping and Definitions	28,903
	Total IGA Projects	**5,089,391**

Other Stormwater Capital Projects

Total Non-IGA Stormwater Capital Projects	**185,405**

Total Stormwater Capital Projects Expenditures

Total 2021 Stormwater Capital Project Expenditures	**5,274,796**

- Engineering Studies - The Stormwater Enterprise continued to work on several significant and important engineering studies during the course of 2021, including finalization of the Sand Creek Drainage Basin Planning Study (DBPS) and continuation of the City's Green Infrastructure Manual. These studies will be used to further develop capital lists, plan future maintenance and capital projects, and manage stormwater related infrastructure.

- Grant Applications – During the reporting period the Stormwater Enterprise was issued notification of award of a FEMA grant for proposed mitigation work in the Cottonwood Creek drainage basin between Austin Bluffs Parkway and the Colorado Springs School District Bus Service Facility. The Stormwater Enterprise additionally resubmitted applications for additional FEMA grant applications for proposed mitigation projects located in the Monument Creek, Monument Branch, Sand Creek, and Cottonwood Creek drainage basins.

Utilities Sanitary Sewer Creek Crossing Program Activities

In parallel with the City's stormwater capital program efforts, Utilities has an ongoing effort to construct stormwater projects to protect stream channels and floodplains adjacent to Utilities' infrastructure crossings. Utilities' Sanitary Sewer Creek Crossing (SSCC) Program implements capital projects that are specifically targeted to protect waterways near facilities which are in danger of failing due to stormwater related events or other impacts. Utilities and City staff closely coordinate their efforts to provide maximum benefits to meet the overall Stormwater Control Program objectives.

In 2021, the SSCC Program included design, repair, or rehabilitation of 12 creek crossing locations, at a cost of $3,632,568.

Drainage Operations and Maintenance Activities Undertaken During the Reporting Period

During the 2021 calendar year, the Drainage Operations and Maintenance (O&M) Program completed the following activities:

- Completed inspections of all 140 publicly maintained regional and sub-regional detention ponds/facilities
- Completed identified maintenance activities within 48 publicly maintained regional and sub-regional detention facilities (including debris removal, sediment removal, mowing, tree trimming, and minor structure maintenance), resulting in removal of 16,984 cubic yards of sediment and debris
- Completed inspections of 4.43 miles of concrete-lined and natural channels
- Performed maintenance activities through 36.39 miles of concrete-lined and natural channels, including removal of 8,676 cubic yards of sediment, vegetation, and debris
- Completed 4,831 separate storm sewer maintenance/vacuum-truck operations (including cleaning of storm sewer inlets and storm sewer pipe cleaning), resulting in removal of 1,065.3 cubic yards of debris
- Repaired, replaced, or installed 2,234 linear feet of stormwater conveyance pipe
- Performed street sweeping operations on 22,153 lane miles of city streets, removing 32,270 cubic yards of debris

2021 MS4 Permit Compliance Activities

The City's MS4 Permit requires the implementation and operation of several specific programs and program components, including public outreach activities, commercial/residential management, illicit discharge management, construction site management, yearly reporting and compliance tracking, wet and dry weather monitoring, and the municipal facilities runoff control program. Several highlights of program compliance are described below, with additional information located in Section 4 of this report:

- Illicit Discharge Detection
    - Responded to 193 suspected Illicit Discharge calls, of which only 40 incidents were confirmed as illicit discharges.
- Public education activities to promote proper management and disposal of potential pollutants conducted during the reporting period included:
    - Presentations provided (i.e., schools, community events): 53
    - Number of students and citizens reached (i.e., schools, community events): 875

  - Regional Stormwater Advertising Campaign reaching multiple counties and jurisdictions: 9,337,432 impressions (visual and audial)
  - Storm Drain Art Project: Completed two murals by a School District 11 High School and one by the Goodwill Possibilities Program building
  - Educational distributions: 1,364 brochures and 7,756school related items
  - Adopt-A-Waterway Program: 1,434 volunteers

- Industrial facilities program education and outreach activities during the reporting period included:
  - 1,487 businesses targeted to receive education and outreach material.
- Construction Site Inspection:
  - Total inspections: 5,823 associated with 305 active sites
- Private Permanent BMP Structure Inspections: 2,178
  - 1,586 construction inspections; 592 compliance inspections
- Stormwater Development Review:
  - Completed reviews of over 3,250 drainage related development submittals

Other Relevant Activities Undertaken During the Reporting Period

- City Stormwater Construction Manual (SCM) – The City finalized and implemented the Stormwater Enterprise's Stormwater Construction Manual intended to set forth the minimum requirements and processes for obtaining a permit authorizing the discharge of stormwater from a construction site within the limits of the City. This manual explains the types of construction activities requiring such a permit, who obtains the permit, and how the permit is obtained. In addition, this manual describes the requirements and process for complying with the permit during construction, as well as the City's inspection and enforcement procedures, and the process for closeout of the permit. The SCM was officially adopted on December 1, 2020, with implementation through 2021.

- MS4 Permit Renewal – The City commenced the City's Municipal Separate Storm Sewer System (MS4) permit renewal process with the Colorado Department of Public Health and Environment (CDPHE) for Colorado Discharge Permit System (CDPS) Permit COS000004. The permit is expected to be reissued in 2022 with a term extending between 2023 and 2028.

- Green Infrastructure Guidance Manual – The City hired Muller Engineering to assist in the development of a Green Infrastructure Guidance Manual. Infiltration metrics associated with Step 1 of the 4 Step Process will be implemented to promote volume reduction through infiltration in 2022. The guidance manual will help engineers to meet the future requirements using standardized green infrastructure measures such as vegetated pervious areas.

- Fountain Creek Watershed Flood Control and Greenway District (FCWFCGD) Participation – The City and Utilities have continued participation in the FCWFCGD District Board, Technical Advisory Committee (TAC), Monetary Mitigation Fund Advisory Committee (MMFAC), and Citizens Advisory Group (CAG).

1.0 Introduction

The City of Colorado Springs (City), Colorado Springs Utilities (Utilities), and Pueblo County (together referred to as the Parties) entered into an Inter-Governmental Agreement (IGA) on April 27, 2016 committing the City and Utilities to invest $460 million dollars over a 20-year period on stormwater management and control activities. The IGA describes the City's responsibilities relative to the provision of stormwater services, including a commitment to construct certain identified capital projects.

The purpose of this annual report is to provide appropriate details concerning the timing, amount, and nature of expenditures made by the City and Utilities during the prior year (2021) for Capital Projects included as part of the IGA, stormwater-related operations and maintenance activities, Municipal Separate Storm Sewer System (MS4) Permit compliance, and protection of waterways adjacent to Utilities infrastructure.

1.1 Reporting Requirements

The IGA requires the City to file with Pueblo County, on or before March 31 of the year following the expenditures, a report containing an estimate of the expenditures on the City's and Utilities' Stormwater Control Programs. The IGA also specifies the minimum annual, average annual, and minimum total expenditures, which must be met or exceeded each year. This Preliminary Expenditures report serves as an update to the Annual Report of Estimated Expenditures for the 2021 Calendar Year, submitted on January 28, 2022. This report is to be followed by the filing of a Final Expenditure report on or before June 30, 2022. The Final Expenditures report will be based on the completed audited financial information.

The following contains a summary of Stormwater Control Program activities and report of preliminary audited expenditures for the 2021 calendar year. Per the IGA, for the purpose of this report, "…expenditures mean both actual expenditures and encumbered funds. 'Encumbered funds' shall mean monies which are appropriated and placed into a fund or account restricted (1) for payment of an authorized Stormwater Control Program activity and cannot be obligated or used for any other purpose, and (2) for payment of capital construction projects for which appropriate steps are being undertaken in a timely manner to advance towards physical construction."

1.2 Background

The City of Colorado Springs is located in El Paso County and the Fountain Creek watershed. The boundaries of the City cover over 195 square miles, making Colorado Springs the largest municipality in Colorado by area. With this extensive area, and the significant elevation changes found therein, comes a significant stormwater challenge as the City oversees runoff from 32 different subwatersheds within the city limits.

City Stormwater Enterprise Program

In 2016, the City created a separate dedicated Water Resources Engineering Division within the City's Public Works Department. In November 2017, Colorado Springs voters approved Ballot Issue 2A to reestablish the City's Stormwater Enterprise, which authorized the collection of stormwater service fees beginning July 1, 2018 and ending July 1, 2038, for the sole purpose of

funding through a City enterprise, the construction, improvement, and operation and maintenance of public stormwater facilities and infrastructure. Collection of the stormwater service fees by the Stormwater Enterprise began on July 1, 2018. Prior the July 1, 2018, the City's Stormwater Program was funded through the City's general fund as a division of Public Works.

An increase in stormwater fees from those originally set in 2017 was approved by Colorado Springs City Council Resolution 27-21 effective July 1, 2021. To ease the transition to a sustainable long-term fee, the increase was approved to be implemented in three phases effective July 1 each year between 2021 and 2023, as shown in the following schedule.

Monthly Fee	**Phase 1** 2021	**Phase 2** 2022	**Phase 3** 2023*
Residential / Unit	$7.00	$7.50	$8.00
Non-residential / Acre	$40.50	$43.00	$45.00

*The rates are scheduled to remain fixed at the 2023 rates through 2038.

As described in previous annual expenditure reports, the overall Stormwater Enterprise Program consists of three primary functions:

- Management of activities required by the City' MS4 permit.
- Operation and Maintenance (O&M) of current drainage and water quality infrastructure;
- Engineering and construction of new stormwater capital projects to address flooding; erosion, and water quality concerns;

MS4 permit compliance activities are organized under three groups:

- Water Quality
- Stormwater Development Review
- Stormwater Projects Delivery

Stormwater Advisory Committee

In accordance with the City's Stormwater Enterprise Ordinance (Ordinance No. 17-69), the Colorado Springs City Council appointed seven (7) community members to form a Stormwater Advisory Committee in February 2018. The Stormwater Advisory Committee provides City Council with citizen input on the stormwater system and operation of the Stormwater Enterprise, along with advice and recommendations on the projects to be undertaken. In 2021 the committee met quarterly on May 20, August 19, and November 18. The February 19, 2021 committee meeting was postponed until May 2021 due to the lack of agenda items.

City Stormwater Capital Improvement Projects Program

The IGA calls out specific projects to be completed between 2016 and 2035 (20-year period). This list is referred to as the IGA Capital Improvements Project List (IGA CIP List). The projects in the IGA CIP List are delivered through the City's Stormwater Capital Projects Delivery group. The City worked closely with Wright Water Engineers (WWE), representing Pueblo County, in prioritizing a significant portion of the IGA CIP List.

Paragraph III.B(2)a of the IGA states that beginning with the 2016 calendar year and extending through the term of the IGA, the Engineering Representatives of the Parties shall meet on or before March 31 of each year in order to prepare, review, discuss and update, as necessary, a five-year CIP for the City and a three-year CIP for Utilities, which shall include a list of Capital

Projects, the construction of which will commence in the upcoming years. Staff members from the City, Utilities, and WWE met on March 30, 2021 and again on September 30, 2021 to review, discuss and update the five-year CIP for the City and the three-year CIP for Utilities' Sanitary Sewer Creek Crossing (SSCC) Program. A copy of the updated IGA CIP project list is included in Attachment A.

In parallel with the City's stormwater capital program efforts, Utilities has an ongoing effort to construct stormwater projects to protect stream channels and floodplains adjacent to infrastructure crossings. These are projects that are specifically targeted to protect waterways near facilities that are in danger of failing due to stormwater related events or other impacts (e.g., buried sanitary sewers that cross creeks that have eroded, exposing the sanitary sewers to potential failure). Utilities' stream crossing projects often have significant stormwater protection features.

The Utilities SSCC Program was established to systematically inspect, evaluate, prioritize, repair and/or replace Utilities infrastructure that cross or extend adjacent to minor and major drainages, and to provide long-term creek stabilization for crossings and adjacent longitudinal sewer systems. The objective of the SSCC Program is to provide the benefits of stream stability, reduced erosion and sedimentation, and floodplain reconnection, resulting in improved water quality and storm flow attenuation while simultaneously providing protection of utility infrastructure. Utilities and City staff closely coordinate their efforts to provide maximum benefits to meet the overall Stormwater Control Program objectives.

City Stormwater Program Budget

As outlined in the IGA, the City and Utilities are required collectively to invest a minimum of $16.5 million on the City's Stormwater Control Program each year between 2016 and 2035. For the first 5 years beginning in 2016 the City and Utilities committed to invest an average of $20 million per year on the stormwater program (core MS4 requirements, Drainage O&M, and stormwater capital projects), or $100 million in investments between 2016 and 2020, and an average of $22 million per year for the second 5 years beginning in 2021, or $110 million in investments between 2021 and 2025. Between 2016 and 2020 the City and Utilities invested (through either expenditures or encumbrances) a total of $113 million dollars on the City's Stormwater Control Program with a total of $106 million dollars expended through 2020. As outlined below in Section 3.0, in 2021 the City and Utilities invested (through either expenditures or encumbrances) a total of $21.8 million dollars on the City's Stormwater Control Program with a total of $18.5 million dollars expended in 2021.

City-Specific Stormwater Construction Manual (SCM)

The City finalized and implemented the Stormwater Enterprise's Stormwater Construction Manual intended to set forth the minimum requirements and processes for obtaining a permit authorizing the discharge of stormwater from a construction site within the limits of the City. This manual explains the types of construction activities requiring such a permit, who obtains the permit, and how the permit is obtained. In addition, this manual describes the requirements and process for complying with the permit during construction, as well as the City's inspection and enforcement procedures, and the process for closeout of the permit. The SCM was officially adopted on December 1, 2020, with implementation through 2021.

Green Infrastructure Guidance Manual – The City hired Muller Engineering to assist in the development of a Green Infrastructure Guidance Manual. Infiltration metrics associated with Step 1 of the 4 Step Process will be implemented to promote volume reduction through

infiltration in 2022. The guidance manual will help engineers to meet the future requirements using standardized green infrastructure measures such as vegetated pervious areas.

2.0 IGA Compliance Activities Undertaken During the Reporting Period

Section III of the IGA outlines special provisions agreed to by the IGA Parties. The following provides a summary of compliance activities taken by the City and Utilities during this reporting period related to Section III of the IGA.

Paragraph III.A – Stormwater Expenditures

Paragraph III.A(1) - Expenditures by the City and Utilities

For the 2021 calendar year, the City and Utilities were required to expend a minimum of $16.5 million dollars on its Stormwater Control Program.

- As of December 31, 2021, the City invested a total of $21.8 million dollars on the City's Stormwater Control Program in 2021. This includes encumbrances of:
  - $ 9.2 million associated with the City's Drainage O&M and MS4 program (Annual Encumbrance)
  - $ 9.0 million associated with the City's Stormwater Capital Projects program (Annual Encumbrance)
  - $ 3.6 million by Utilities Sanitary Sewer Creek Crossing Program (Actual Expenditure)
- Between 2016 and 2020, the City and Utilities have invested (through either expenditures or encumbrances) a total of **$113.4 million dollars** on the City's Stormwater Control Program with a total of **$106 million dollars** expended as of December 31, 2020.
- Between 2021 and 2025, the City and Utilities are expected to invest (through either expenditures or encumbrances) a total of $110 million dollars at an average of $22 million dollars per year. In 2021, The City and Utilities have invested a total of **$21.8 million dollars** on the City's Stormwater Control Program with a total of **$18.5 million dollars** expended as of December 31, 2021.
- A more detailed summary of preliminary expenditures for the 2021 calendar year is provided in Section 3.0 of this report.

Paragraph III.A(2) - Annual Report of Expenditures

The IGA requires that in order to verify whether the City's and Utilities' expenditures on the Stormwater Control Program meet or exceed the requirements of paragraph III.A(1), each year the City and Utilities shall file with Pueblo County a report containing an estimate of expenditures on or before January 31 of the year following the expenditures, followed by the filing of a preliminary report on or before March 31, and with a final report to be filed on or before June 30 of that year based on audited financials. These reports are to provide appropriate details concerning the timing, amount and nature of all such expenditures made by the City and Utilities during the prior year for Capital Projects, O&M, MS4 Permit compliance, protection of Utilities infrastructure from stormwater, and any other relevant categories.

- This report serves to document the preliminary expenditures for the 2021 calendar year and provide a summary of the associated Stormwater Control Program activities.
- This Preliminary Expenditures report serves as an update to the Annual Report of Estimated Expenditures for the 2021 Calendar Year, submitted on January 28, 2022. A subsequent final expenditures report will be filed on or before June 30, 2022 based on audited financials.

Paragraph III.B – Stormwater Capital Improvement Program

Paragraph III.B(2) - Identification of Capital Projects

Paragraph III.B(2)a. states that beginning with the 2016 calendar year and extending through the Term of the IGA Agreement, the Engineering Representatives of the Parties shall meet on or before March 31 of each year in order to prepare, review, discuss and update, as necessary, a five-year CIP for the City and a three-year CIP for Utilities, which shall include a list of Capital Projects, the construction of which will commence in the upcoming years.

- Staff from the City, Utilities, and Wright Water Engineers (WWE) met on March 30, 2021 and again on September 30, 2021 to review, discuss, and update the five-year CIP for the City and the three-year CIP for Utilities' SSCC Program. A copy of the updated IGA CIP project list is included in Attachment A.

  At the completion of the September 30, 2021 meeting, the participating representatives agreed to the following modifications to the original IGA project list:

  - Storage Cottonwood Park PR-15 (2020 IGA Project #51) – Agreed to move the Storage Cottonwood Park PR-15 project (IGA Project #51 to a later year and move up the Channel/Grade Control Cottonwood Creek – Monument Creek to Academy project (IGA Project #59) from the 2026-2035 timeframe to the present. The request was based on estimated construction costs of the Storage Cottonwood Park PR-15 project outweighing the benefit of the project as designed, and the greater immediate need to complete the remaining work required in the IGA Project #59 area with construction work planned to commence in the Fall of 2022. The planned work will stabilize a portion of Cottonwood Creek that is currently threatening two apartment buildings and an undercut vertical sandstone bank immediately upstream.
  - Channel/Grade Control Sand Creek Upper West Fork – Galley to Murray (2022 IGA Project #76) – Agreed to remove and replace the Channel/Grade Control Sand Creek Upper West Fork – Galley to Murray IGA Project #76 with a new South Douglas Stabilization at Sinton Trail project (IGA Project #111). The request was based on the results of a 10% design completed for the Channel/Grade Control Sand Creek Upper West Fork – Galley to Murray project which determined that based on previous work conducted in the project area, the reach is well vegetated and appeared very stable with no visible detrimental changes over the past 5 years. However, the area of South Douglas Creek in the vicinity of the Sinton Trail has experienced instability and the loss of a drop structure that threatens upstream drop structures and Sinton Road. Construction of the South Douglas Stabilization at Sinton Trail project is planned for 2022.

- Channel/Grade Control Sand Creek – Fountain to Airport (2024 IGA Project #60) - Agreed to identify the Channel/Grade Control Sand Creek – Fountain to Airport IGA Project #60 as complete based on work previously performed and the stability of the remaining reach of the project area and replace the project with the new Middle Creek Upstream of I-25 project (IGA Project #112). The Middle Creek Upstream of I-25 project will stabilize a heavily incised and unstable reach of Middle Creek between I-25 and an old beaver pond and reduce sediment deposition downstream in Monument Creek. Construction is planned for the Fall of 2022 or 2023.

- Galley Road Channel – Sand Creek between Galley and Platte Avenue (2023 IGA Project #19) – Agreed to identify the Galley Road Channel – Sand Creek between Galley and Platte Avenue IGA Project #19 as complete based on work performed by development efforts in recent years and remaining stabilization work being completed as part of the replacement of the Platte Avenue Bridge over Sand Creek. It was agreed that the project will be replaced with the new Spring Creek Ecosystem Restoration USACE project (IGA Project #113). For this project the City is partnering with USACE under Continuing Authority Program 206 to restore the existing vacant City "Audubon" property at Pikes Peak Avenue and Academy Boulevard back to its original wetlands preserve by constructing drop structures downstream on Spring Creek and restoring the two channels of Spring Creek through the approximately 40-acre property. A feasibility study is currently being conducted and construction is planned for 2024.

Paragraph III.B(2)c. states that Utilities shall reimburse Pueblo County up to $10,000 each year (commencing in 2016) to defray the actual cost incurred by Pueblo County of using any outside engineering consultants to conduct these yearly reviews and any associated inspections, payable within 30 days of Utilities' receipt of a statement from Pueblo County evidencing such costs.

- A statement letter dated June 24, 2021 was received from Pueblo County by the City of Colorado Springs Attorney's Office evidencing a total of $5,248.54 in fees incurred in 2020 associated with Wright Water Engineering's support of the IGA related yearly reviews and associated inspections. The fees were reimbursed to Pueblo County by Utilities.

Paragraph III.B(4) – Contingency for Stormwater Emergencies

Paragraph III.B(4) states that should an unanticipated emergency stormwater event occur, such as a flood, which event causes or threatens to cause property damage or create a threat to human health or safety which must be addressed in an immediate manner utilizing funds previously allocated for the listed Capital Projects, the City and Utilities shall promptly notify Pueblo County of such situation, and the Engineering Representatives of the Parties shall confer and reach agreement promptly on any required postponement and modification to the stormwater construction priorities in the CIP.

- No unanticipated emergency stormwater events as outlined in the above paragraph occurred during the reporting period.

Paragraph III.C – Regional Cooperation on Fountain Creek

Paragraph III.C states in part that the Parties are to coordinate and cooperate in regional initiatives designed to address such concerns, including:

(1) *By coordinated support of the initiatives undertaken by the Fountain Creek Watershed, Flood Control and Greenway District ("FCWFCGD") to obtain federal and state assistance for stormwater, flood control and water quality projects within the Fountain Creek basin, including federal and state grants;*

- No new activities were performed in 2021 which required support by the City or Utilities.

(2) *By regional land use planning efforts where feasible and practicable;*

- The City and Utilities are active participants in the FCWFCGD Board of Directors, the FCWFCGD Technical Advisory Committee (TAC), the FCWFCGD Citizen's Advisory Committee (CAG), and the Monetary Mitigation Fund Advisory Committee (MMFAC). Respectively, the TAC and MMFAC provide input to the Board of Directors regarding technical matters including land use policies, land use project applications, and funding priorities for project work along Fountain Creek.
- Utilities supported the FCWFCGD MMFAC in the development of a draft 10-year Capital Improvement Plan in 2017 and in 2021 participated in the annual Plan update for recommended projects to commence in 2022.

(3) *By regional water quality improvement and water quality regulatory initiatives, as determined appropriate and subject to each Party's reservation of its regulatory authority.*

During the reporting period:

- Utilities supported the FCWFCGD MMFAC in the development of a draft Capital Improvement Plan in 2017 for the purpose of ensuring that the Monetary Mitigation Funds provided through Condition No. 6 of the Pueblo County SDS 1041 Permit are allocated in congruence with the terms outlined in the SDS 1041 Permit. Utilities further participated in discussions related to the selection of projects in 2021 to be commenced in 2022 with appropriate updates to the District's Capital Improvements Plan.
- The City and Utilities continued to participate through the Arkansas and Fountain Coalition for Urban River Evaluation (AF CURE) to further advance regional water quality efforts including nutrient sampling and modelling, PFAS-related groundwater issues, and water quality policy tracking.

(4) *By coordinated support of acquisition of land or conservation easements by the FCWFCGD or other entities to preserve or enhance the Fountain Creek corridor below the City and through the City of Pueblo.*

- The FCWFCGD has continued to explore the potential for compensatory mitigation banking projects within the Fountain Creek basin. A mitigation bank is a resource area restored, established, enhanced, or in some circumstances preserved for the purpose of providing regulatory compensation for unavoidable impacts to a natural resource (i.e., wetland, stream bank, or plant or animal species) permitted under the Clean Water

Act, Endangered Species Act, or a similar state or local regulation. Compensatory mitigation projects are implemented by a mitigation bank sponsor under an approved mitigation bank instrument. The mitigation bank project(s) then produce released credits that fulfill the obligations incurred by the mitigation bank sponsor through the sale or transfer of the credits generated.

(5) *By exploring opportunities for such coordination and cooperation on these Fountain Creek initiatives beyond the term of the IGA Agreement.*

- Both the City and Utilities are committed to continuing to work with the FCWFCGD to explore opportunities to coordinate and cooperate on Fountain Creek related initiatives during and beyond the term of the IGA Agreement.

Paragraph III.D – Payments to FCWFCGD

Paragraph III.D(2) – Commencement of Payments under Condition 6 of the SDS 1041 Permit

Paragraph III.D(2) states that within 30 days of the execution of the IGA Agreement, Utilities shall, on behalf of the SDS Participants, make the first annual payment (together with the additional annual indexing amounts) due under Condition 6 of the SDS 1041 Permit for the purposes stated therein to the FCWFCGD or its Enterprise in the amount of $9,578,817.00. The remaining annual payments shall be made on or before January 15 of the years 2017, 2018, 2019 and 2020 respectively.

- This condition was completed in 2020. Between 2016 and 2020, a total of $52 million including interest was provided to the Fountain Creek Watershed Water Activity Enterprise in accordance with Condition 6 of the Southern Delivery System (SDS) 1041 Permit and as outlined in Pueblo County Resolution No. P&D 14-15 (confirming the commencement date for the annual indexing and approving the annual indexing methodology for purposes of calculating monetary mitigation).

Paragraph III.D(3) – Cooperation on Future Funding

Paragraph III.D(3) states that to ensure long-term funding of FCWFCGD's annual operating budget, the City, Utilities and Pueblo County will work cooperatively and in good faith to establish a proportional formula by which each of the Parties and the other participating stakeholders in the FCWFCGD, will agree to contribute funds to ensure the long-term funding of FCWFCGD's operating budget.

- The City and Utilities are committed to the long-term funding of the FCWFCGD's operating budget and continues to support efforts to work cooperatively and in good faith with Pueblo County to establish a proportional operating budget funding formula with the participating stakeholders in the FCWFCGD.

Paragraph III.F – Grant of DCM Variances

Paragraph III.F states in part that to the extent the granting of DCM variances is not precluded by the EPA or CDPHE, the City shall provide Pueblo County with notice of, and an opportunity to comment upon, any DCM variance request before a decision is made on the variance request.

- Seventy-eight (78) minor DCM variance requests were received by the City during the reporting period. The requests were submitted to the Pueblo County Engineering Department following review and acceptance by the City to allow the County the opportunity to review and comment on the requests. None of the variance requests

resulted in an adverse impact to water quality or an increase of peak flows into Fountain Creek. Pueblo County representatives did not provide objection to any of the requests following their review. The City took each response by Pueblo County under advisement and responded to any questions Pueblo County representatives presented.

- In January 2020, the City and Pueblo County agreed to an alternative method for Pueblo County's review and comment pertaining to certain stormwater criteria variances associated with the City of Colorado Springs' DCM. The alternative method allows Pueblo County to consider certain identified categories of variances to be routine, if, and only if, the variance requests will not lead to any increase in flows, will not result in additional generation of sediment or erosion, will result in no decrease to water quality for Fountain Creek or tributaries to Fountain Creek, and meet the routine variance condition criteria agreed upon by the City and Pueblo County. The routine variances are only related to consistent variances that Pueblo County previously had no concerns or comments historically. All other non-routine variances are sent to Pueblo County for an opportunity to comment upon as per Paragraph III.F of the IGA.

  The goal of the alternative method is to help reduce the time Pueblo County uses to review such variances for which consensus has been reached. A total of nine categories of routine variances and associated conditions to meet the routine variance definition were agreed upon. The categories include the following:

  - Drop Manholes
  - Pipe Bends
  - Retaining Wall Footings
  - Retaining Wall Circumference
  - Pipe Material
  - Pipe Velocities
  - Pipe Crowns Matching
  - Retaining Wall Horizontal Distance
  - Minimum Pip Size

  A summary of the number and nature of routine variances approved by the City are provided to Pueblo County on a quarterly basis. During the reporting period, a total of 97 routine variances were approved by the City and reported to Pueblo County.

3.0 Preliminary Expenditures for the 2021 Calendar Year

The following contains a report of preliminary audited expenditures for the 2021 calendar year. Per the IGA, for the purpose of this report, "…expenditures mean both actual expenditures and encumbered funds. 'Encumbered funds' shall mean monies which are appropriated and placed into a fund or account restricted (1) for payment of an authorized Stormwater Control Program activity and cannot be obligated or used for any other purpose, and (2) for payment of capital construction projects for which appropriate steps are being undertaken in a timely manner to advance towards physical construction." Further, the IGA states: The City and Utilities combined expenditures shall comply with the minimum total expenditures and minimum average annual expenditure during each five-year period. For the first five-year period (2016-2020), the minimum annual expenditure requirement is $16.5 million, and the average annual expenditure requirement is $20 million for an overall expenditure of $100 million for the period between 2016 and 2020. For the second five-year period (2021-2025), the minimum annual expenditure requirement is $16.5 million, and the average annual expenditure requirement is $22 million for an overall expenditure of $110 million for the period between 2021 and 2025. In addition, the city has committed to complete at least the projects included in the Capital Projects list identified per the agreement by December 31, 2035.

The minimum expenditure requirement (actual and encumbered) has been met for the 2021 calendar year reporting period. As of December 31, 2021, the City and Utilities have invested (through either expenditures or encumbrances) a total of **$21.8 million** dollars on the City's Stormwater Control Program and expended **$18.5 million** dollars.

Expenditures for the 2021 Calendar Year

IGA Requirement	Minimum Total Expenditures	Average Annual Expenditures	Minimum Annual Expenditures
First Five Years (2016-2020)	$100 Million	$20 Million	$16.5 M/yr.
Second Five Years (2021-2025)	$110 Million	$22 Million	$16.5 M/yr.

Claimed Expenditures (Actual Expenditures and Encumbered Funds)	Total (2016-2020)	**2021**	Subtotal (2021-2025)	Total (2016-2021)
Drainage O&M/MS4 Program	$41,301,035	**$9,224,194**	$9,224,194	$50,525,229
Stormwater Capital Projects	$56,280,278	**$9,000,000**	$9,000,000	$65,280,278
Colorado Springs Utilities (SSCC Program)	$15,846,580	**$3,632,568**	$3,632,568	$19,479,148
Total	$113,427,893	**$21,856,762**	$21,856,762	$135,284,655

Actual Expenditures	Total (2016-2020)	**2021**	Subtotal (2021-2025)	Total (2016-2021)
Drainage O&M	$18,719,097	**$3,427,366**	$3,427,366	$22,146,463
Stormwater MS4 Program	$21,010,941	**$6,214,259**	$6,214,259	$27,225,200
Stormwater Capital Projects	$50,837,527	**$5,274,796**	$5,274,796	$56,112,323
Colorado Springs Utilities (SSCC Program)	$15,846,580	**$3,632,568**	$3,632,568	$19,479,148
Total	$106,429,145	**$18,548,989**	$18,548,989	$124,978,134

Additional Unclaimed Stormwater Expenditures in 2021

Other Capital Project Stormwater/Channel Related Work $2,186,851

(Excluded expenditures related to PPRTA and roadway/bridge construction or maintenance projects per IGA paragraph III.A(5)b.)

Capital Project Summary of Expenditures

Of the actual expended total listed above, $5,274,796 has been invested in Capital Projects, of which $5,089,391 has been invested on IGA projects, and $185,405 has been invested on other stormwater related projects.

IGA CAPITAL PROJECTS			
IGA Project No.	**Project Name**		**Actual Spent ($)**
109	Bear Creek Channel Stabilization (2018)		69,980
11	Camp Creek Phase I (2018)		(3,372)
106	Cottonwood Creek Austin Bluffs to Bus Barn (2021)		40,685
65	Cottonwood Creek Detention Basins (2017)		298,857
59	Cottonwood Creek-Monument Creek to Academy (2020)		5,548
1	Emergency Stormwater Projects (2021)		1,682,781
0	FEMA Grant Projects (City Funds) (2016)		55,599
	NRCS Chuckwagon Phase II	10,800	
	NRCS Chuckwagon Phase III	22,661	
	South Douglas Design and Grant Match	22,138	
7	Fairfax Tributary Detention Pond (2016)		35,394
105	Flying Horse Pond 1 Retrofit (2019)		242,111
21	Monument Creek at Talemine (2020)		928,154
23	North Chelton Road (CS-057) (2018)		604,057
16	North Douglas Channel (2019)		13,690
103	Pine Creek Channel Ph I (2018)		353
104	Pine Creek Channel Ph 2 (2020)		77,586
111	South Douglas Sinton Trail Imps. (2022)		20,592
51	Storage Cottonwood Park-PR15 (2026)		118,079
40	Storage Mt. Woodmen Court (2026)		375,689
34	Storage Sand Creek Pond 2 (2019)		50,988
6	USAFA Drainages (Monument Branch) (2016)		20,915
110	USAFA Supplemental Black Squirrel Creek (2022)		249,333
13	Water Quality Projects (2016-2020)		173,469
Various*	Project Scoping and Definitions		28,903
	Monument Creek at Mark Dabling	6,237	
	(39) Sand Creek-Palmer Park to Galley	2,010	
	(106) Cottonwood Creek (2021)	4,688	
	(6) USAFA Drainages (Monument Branch Ph II)	15,968	
	Total IGA Projects		**5,089,391**

Other Stormwater Capital Projects

Project Name	Actual Spent ($)
Channel Inspection and Restoration	7,803
Comprehensive Drainage Master Plan	12,902
Drainage Studies	56,943
Mitigation Projects/Studies	73,287
South Douglas Upstream Centennial	5,525
USAFA-Elk Horn Creek	28,945
Total Non-IGA Stormwater Capital Projects	**185,405**

Total Stormwater Capital Projects Expenditures

Total 2021 Stormwater Capital Project Expenditures	**5,274,796**

Colorado Springs Utilities SSCC Program Activities

Work Order No.	Project Name	Actual Spent ($)
3636510	Dry Creek Downstream of Dawson Stream Stabilization - Phase II - Construction	$1,029,712
3749174	Dry Creek Downstream of Dawson Drive Stream Stabilization - Revegetation	$5,353
3411434	Templeton Gap at Siferd Blvd Stream Stabilization - Construction	$11,425
3526082	Monument Creek at Monument Street Stream Stabilization - Design	$35,984
3255936	Broadmoor Valley Park Stream Stabilization - Design	$12,586
3745926	South Douglas Upstream of I-25 Stream Stabilization - Construction	$110,933
3460032	Sand Creek Stabilization KARR to West Fork Confluence - Design	$112,683
3733502	North Rockrimmon Creek Stream Stabilization - Construction	$107,538
3526106	Cottonwood Creek Austin Bluffs Pkwy to Powers Blvd Stream Stabilization - Design	$10,655
3526116	Sand Creek Downstream of East Fork Confluence Stream Stabilization - Construction	$1,263,321
3819643	Middle Tributary Upstream of I-25 Channel Stabilization – Design & Construction	$301,932
3731441	Cottonwood Creek Upstream of Academy Blvd Stream Stabilization - Construction	$630,446
	Total Utilities SSCC Program 2021 Project Costs:	**$3,632,568**

4.0 Stormwater Control Program Activities Undertaken in 2021 Calendar Year

2016 Capital Projects Carried Over Into the 2021 Reporting Period

2016 FEMA/ GRANT PROJECTS (IGA PROJECT #0)

Projects arising from the 2013 and 2015 flooding

South Douglas at Centennial

Location: South Douglas natural channel between Centennial and Chestnut

Description: Flash floods following the Waldo Canyon Fire caused increased flood flows and erosion along this section of channel. The FEMA PAAP Grants Program funded restoration of the channel washout areas. Due to increased erosion after subsequent rain events, the grant dollars are only enough to fund one major washout area. Due to the changes in work scope and hydrology within the proposed project site, FEMA had requested further study and mitigation of the area before commencing with construction. Construction activities plan to commence in 2021.

Engineer/Contractor:	HDR and Corvus/53-Corp
Status:	Construction 50% Complete

USAFA DRAINAGE-MONUMENT BRANCH – PHASE 2 & 3 (IGA PROJECT #6)

Location: The project is located on Monument Branch, a tributary of Monument Creek, between North Gate Blvd and Interquest Parkway and starts at Voyager Parkway (just north of The Classical Academy school) and continues west past I-25 to the confluence with Monument Creek on the United States Air Force Academy (USAFA).

Description: The Monument Branch tributary of Monument Creek has become highly eroded. This project was designed to restore and stabilize the creek by constructing drop structures and installing flood mitigation measures. The project has been broken up into 3 phases. Phase 1 was completed in 2017. Phase 2 consists of the section outside of Phase 1 between Voyager Parkway and I-25. Phase 3 is the section of Monument Branch from the confluence with Monument Creek to the west side of I-25 and was completed in 2020. The project is identified as a high priority project within the Monument Creek Watershed Restoration Master Plan, October 3, 2016 and has been a joint effort between the City, Utilities, the United States Air Force Academy, CDOT, and the FCWFCGD.

Phase 2:

Engineer/Contractor:	Matrix Design Group/TBD
Status:	Phase 2 Engineering – 100% Complete Phase 2 Construction – 10% Complete

Phase 3:

Engineer/Contractor:	Matrix Design/Construction performed by a private developer
Status:	Complete

FAIRFAX TRIBUTARY DETENTION POND (IGA PROJECT #7)

Location: Proposed pond to be located on the northwest corner of Powers Boulevard and Research Parkway.

Description: This project will construct a new full spectrum detention facility. The initial budget identified was not enough to cover the anticipated project costs. Therefore, a $2,863,472 grant application through the CDOT Water Quality Mitigation Fund was applied for and awarded to the City. The City has completed IGA negotiations with CDOT for the project and the design of the pond was completed in 2020. Construction is expected to begin in 2022. In addition, Matrix Design Group completed a 10% design for the installation of a stand-alone facility, independent of the CDOT grant, as part of the Cottonwood DBPS Project.

Engineer/Contractor:	FHU/TBD
Status:	IGA negotiations with CDOT complete; Design 100% Complete Construction planned for Fall 2022 pending CDOT interchange construction timing

SAND CREEK STABILIZATION SOUTH OF PLATTE (LOMR) (IGA PROJECT #26)

Location: Sand Creek, downstream of Platte Avenue

Description: Following completion of the IGA project in this area it was determined a Letter of Map Revision (LOMR) was required to be completed for this reach of creek in order to correct the FEMA floodplain mapping of the surrounding area. Consultation with a vendor was completed and the LOMR applied for through FEMA.

Engineer:	Respec
Status:	Complete

2017 Capital Projects Carried Over Into the 2021 Reporting Period

2017 FEMA/ GRANT PROJECTS (IGA PROJECT #0)

Projects arising from the 2013 and 2015 flooding

Flying W Ranch/ Chuckwagon-Phase 2

Location: Chuckwagon Road

Description: Flash floods following the Waldo Canyon fire caused significant erosion and damage to private property on the Wolfe Ranch/Chuckwagon. The NRCS grant program for Phase 2 of the project funded additional stabilization of approximately 1,500 feet of drainage channels throughout the property.

Engineer/Contractor: Matrix Design Group/BMH Development
Status: Complete

Flying W Ranch/ Chuckwagon-Phase 3

Location: Chuckwagon Road

Description: Flash floods following the Waldo Canyon fire caused significant erosion and damage to private property on the Wolfe Ranch/Chuckwagon. In fulfillment of the City's maintenance agreement with the landowner, additional work is being completed on both North and South Douglas drainage basins within the Wolfe Ranch properties.

Engineer/Contractor: Matrix Design Group/BMH Development
Status: Complete

COTTONWOOD CREEK DETENTION BASINS (IGA PROJECT #65)

Pond Projects arising from preliminary 2017 Cottonwood Creek DBPS

Tutt Pond (PR-2)

Location: Cottonwood Creek upstream of Tutt Boulevard

Description: Design and construction of a regional in-line detention pond for flood control purposes to attenuate flows in the upper reaches of Cottonwood Creek. Substantial completion achieved in 2020 with final contract closeout completed in early 2021.

Engineer/Contractor: Kiowa/Dwire
Status: Complete

2018 Capital Projects Carried Over Into the 2021 Reporting Period

NORTH CHELTON ROAD (IGA PROJECT #23)

Location: North Chelton Road from Sturgis Road south to Maizeland Road

Description: Install new stormwater inlets, curb, gutter and below ground stormwater pipe network to capture storm flows and direct flows to the existing nearby storm system. Project will mitigate against the flooding of residences immediately down gradient of Chelton Road.

Engineer/Contractor:	SEH/Blue Ridge Construction
Status:	Complete

BEAR CREEK CHANNEL STABLIZATION (IGA PROJECT #109)

Location: Bear Creek immediately downstream of 8th Street.

Description: Install two grouted boulder drops, rip-rap stabilization and bank stabilization from the invert of the culvert crossing 8th Street and continuing downstream to the restoration work performed in 2016. Construction planned for beginning of 2021.

Engineer/Contractor:	Dewberry/(RMC/Na Ali'i)
Status:	Complete

ENGINEERING STUDIES

Sand Creek Drainage Basin Planning Study (DBPS)

Location: Sand Creek Drainage Basin (east section of the City)

Description: The Sand Creek DBPS was last performed and adopted into use in 1996. This project reassesses the previous DBPS and will provide updates as needed. The DBPS is scheduled to be completed and finalized in 2021. Many of the future IGA projects are located in this basin and will rely on the updated DBPS once complete.

Engineer:	Stantec
Status:	Complete

2019 Capital Projects Carried Over Into the 2021 Reporting Period

FLYING HORSE POND #1 (IGA PROJECT #105)

Location: Detention Pond located along Monument Branch just south of Crystal Basin Drive.

Description: The scope of this project is to retrofit the existing pond to a water quality facility to treat the area drainage and drainage from the future Powers Boulevard extension that will be constructed along the south side of the pond.

Engineer/Contractor:	Merrick/Wildcat Construction
Status:	Engineering Complete Construction 50% Complete

NORTH DOUGLAS CHANNEL (IGA PROJECT #16)

Location: North Douglas Creek from Sinton Road outfall to the UPRR right-of-way

Description: The scope of this project is to restore the natural channel using natural and hardened structures to mitigate against further erosion and loss of vegetation within the drainage way. The project will help reconnect the floodway and create new riparian areas downstream of the existing hardened concrete channel.

Engineer/Contractor:	Merrick/TBD
Status:	Engineering 100% Complete Construction planned Fall of 2022 pending land acquisition

2020 Capital Projects Carried Over Into the 2021 Reporting Period

WATER QUALITY PROJECTS (2020) – LOW-IMPACT DEVELOPMENT (LID) MANUAL (IGA PROJECT #13)

Location: City-wide

Description: The city is developing a green infrastructure manual in an effort to increase the amount of water quality pre-treatment established in development and re-development areas around the City. The manual will include best practices from the industry and have heavy stakeholder involvement from the development community and many other outside stakeholders.

Engineer/Contractor:	Muller Engineering
Status:	80% Complete

PINE CREEK CHANNEL IMPROVEMENTS PHASE 2 (IGA PROJECT #104)

Location: Pine Creek natural channel alignment from Chapel Hill Drive west to the detention pond at Voyager Parkway

Description: The scope of this project is to restore the natural channel using natural and hardened structures to mitigate against further erosion and loss of vegetation within the drainage way.

Engineer/Contractor:	HDR/TBD
Status:	Design 100% Complete Construction planned Fall of 2022

STORAGE COTTONWOOD PARK (PR-15) (IGA PROJECT #51)

Location: Detention Pond located along Cottonwood Creek at Montarbor Drive

Description: The scope of this project is to retrofit the existing pond to a larger detention facility that will collect flows from the neighborhood to the south before entering Cottonwood Creek.

Engineer/Contractor:	Kimley-Horn/TBD
Status:	Engineering 60% Complete Construction planned Fall of 2024

MONUMENT CREEK AT TALEMINE (IGA PROJECT #21)

Location: East bank of Monument Creek at Goose Gossage Park along Mark Dabling Drive.

Description: The scope of this project is to reconstruct and stabilize the east bank of Monument Creek where a high cliff has formed from continued erosion.

Engineer/Contractor:	In-House/Siete
Status:	Complete

COTTONWOOD CREEK AUSTIN BLUFFS TO BUS BARN (2021 IGA PROJECT #106)

Location: Cottonwood Creek natural channel upstream of Austin Bluffs

Description: This is the first of a three–phased project to stabilize the reach of creek between Austin Bluffs and Powers Boulevard. The project will include several drop structures and reconnect the adjacent floodplain to the creek creating more riparian areas and environmental restoration of the area.

Engineer/Contractor:	Matrix Design Group/TBD
Status:	Engineering 100% Complete Construction Phase 1 planned Fall of 2022

USAFA SUPPLEMENTAL PROJECT BSC (2022 IGA PROJECT #110)

Location: Black Squirrel Creek between USAFA east property line and I-25 ROW

Description: The scope of this project is to stabilize this reach of creek and reconnect the floodplain to prevent further head cutting and erosion downstream.

Engineer/Contractor:	In-House/53-Corp
Status:	Complete

EMERGENCY STORMWATER PROJECTS (IGA PROJECT #1)

Projects arising from 2020 prioritized needs

Elkhorn Creek at USAFA

Location: Elkhorn Creek from I-25 west to the USAFA Airport.

Description: Stabilization of the creek through this reach. This is a joint USAFA and Colorado Springs Stormwater Enterprise (SWENT) project to restore the creek from damage due to increased upstream flows. SWENT is funding the design portion of the project.

Consultant:	Matrix Design Group
Status:	Design 100% Complete Construction planned for 2022

Wetland Mitigation Bank Study

Location: El Paso County Region

Description: Investigate the need and future opportunities of creating a wetland and/or stream stabilization credit bank in the Fountain Creek basin area. Study is in cooperation with the FCWFCGD and Utilities.

Consultant:	Westervelt
Status:	Complete

GRANT APPLICATIONS

2020 FEMA BRIC Grant Applications

Location: Four separate project areas.

Description: Applications were submitted to FEMA in an effort to acquire funding for the design and construction of four mitigation projects in the Monument Creek, Monument Branch, Sand Creek, and Cottonwood Creek drainage basins. The grants were not awarded in 2021.

Capital Projects Undertaken During the 2021 Reporting Period

EMERGENCY STORMWATER PROJECTS (IGA PROJECT #1)

Projects arising from 2020 prioritized needs

T-Gap Concrete Channel,

Location: Tempelton-Gap at Grant Elementary School

Description: Repairs to concrete trapezoidal channel.

Contractor: Langston
Status: Complete

Hollow Tree Court Channel

Location: Concrete channel near Hollow Tree Court.

Description: Repairs to concrete trapezoidal channel.

Contractor: Langston
Status: Complete

Wold Ave Channel

Location: Concrete channel near Wold Avenue.

Description: Repairs to concrete trapezoidal channel.

Contractor: CMS
Status: Complete

Turquois Channel

Location: Concrete Channel near Turquois.

Description: Repairs to concrete trapezoidal channel

Contractor: Ability
Status: Complete

Rampart Park Channel

Location: Concrete channel along entrance to Rampart Park.

Description: Repairs to concrete trapezoidal channel.

Contractor: Langston
Status: Complete

South Douglas Creek

Location: Along Sinton Trail near Holland Park drive.

Description: Stabilized Creek bank that was threatening parks trail.

Contractor: Tezak
Status: Complete

EMERGENCY STORMWATER PROJECTS (IGA PROJECT #1) – Continued

Projects arising from 2020 prioritized needs

Rustin Hills Pond Modifications

Location: Water Quality Pond within Rustic Hills Neighborhood.

Description: Repair erosion areas and modified maintenance trail to prevent further deterioration.

Contractor: CMS
Status: Complete

CMP Pipe Lining Project

Location: 2005 Farnsworth Drive

Description: Spray lined large diameter CMP that was corroded and failing along the pipe invert.

Contractor: HPD
Status: Complete

Stormpipe Repairs

Location: Union and El Capitan

Description: Removed and replaced sections of pipe damaged during adjacent guardrail installation along Union.

Contractor: CMS
Status: Complete

Valli Vista

Location: Valli Vista Drive drainage

Description: Improved drainage from Valli Vista Drive through residents property easement into concrete channel.

Contractor: CMS
Status: Complete

Broken Circle Drainage

Location: Cul-de-sac at the end of Broken circle drive

Description: Installed inlet and stormpipe to carry flows from cul-de-sac down into the water quality pond.

Contractor: Tasmar
Status: Complete

GRANT APPLICATIONS

2020 FEMA BRIC Grant Applications

Location: Four separate project areas.

Description: Applications were resubmitted to FEMA in an effort to acquire funding for the design and construction of four mitigation projects in the Monument Creek, Monument Branch, Sand Creek, and Cottonwood Creek drainage basins. The funding determination is scheduled to be made later in 2022.

Engineer:	Various
Status:	Complete

2021 OLDCC Monument Creek Grant Application

Location: Northern Monument Creek

Description: Application submitted to OLDCC in an effort to secure funding for a study along Monument creek within the USAFA and the surrounding City drainages.

Engineer:	TBD
Status:	Grant Award Complete

ENGINEERING STUDIES

The Stormwater Enterprise continued to work on several significant and important engineering studies during the course of 2021, including completion of the Sand Creek Drainage Basin Planning Study (DBPS) and continuation of the City's Green Infrastructure Manual. These studies will be used to further develop capital lists, plan future maintenance and capital projects, and manage stormwater related infrastructure.

Utilities Sanitary Sewer Creek Crossing (SSCC) Program Activities

In 2021, Utilities SSCC Program included design, repair, rehabilitation, or closeout of 12 creek crossing locations, at a cost of $3,632,568.

The following is a summary of Utilities SSCC Program projects undertaken during the reporting period.

Dry Creek Downstream of Dawson Drive Stream Stabilization – Phase II Construction

This project was designed to reduce risk to Utilities infrastructure by stabilizing a reach of Dry Creek in the northwestern portion of the City. A 12-inch sanitary sewer main extends down the Dry Creek drainage, crossing Dry Creek itself at several locations. The crossings of Dry Creek are encased in concrete; however, the encasements were exposed due to ongoing channel degradation. The project design consists of several small sculpted concrete drop structures that reconnect Dry Creek to its floodplain and prevent future channel degradation. Phase I construction consisted of the portion of the project between Mark Dabling Road and the BNSF railroad. Construction of Phase I began in Fall 2019 with completion in April 2020. Phase II construction (extending from near Dawson Drive to the BNSF railroad bridge) began in November 2020 with completion in May 2021.

Engineer/Contractor:	Jacobs Engineering Group/Tezak Heavy Equipment
Notice to Proceed:	January 2021
Completion Date:	May 2021
Status:	Complete

Dry Creek Downstream of Dawson Drive Stream Stabilization – Vegetative Monitoring and Establishment

This project had construction completed in 2021. This project was designed to reduce risk to Utilities infrastructure by stabilizing a reach of Dry Creek in the northwestern portion of the City. A 12-inch sanitary sewer main extends down the Dry Creek drainage, crossing Dry Creek itself at several locations. The crossings of Dry Creek are encased in concrete; however, the encasements were exposed due to ongoing channel degradation. The project design consists of several small sculpted concrete drop structures that reconnect Dry Creek to its floodplain and prevent future channel degradation. A monitoring report for the USACE 404 permit was created to document the status of the revegetation. Habitat Management was contracted with to perform additional vegetative establishment activities per the recommendations of the monitoring report.

Consultant/Contractor:	ERO Resources/Habitat Management
Notice to Proceed:	June 2021
Completion Date:	Ongoing
Status:	Ongoing

Templeton Gap at Siferd Blvd Stream Stabilization - Construction

Channel degradation in Templeton Gap threatens a sewer that parallels and crosses the drainage upstream of Siferd Boulevard. The project was designed internally by Utilities engineers and will utilize stacked boulder bank projection and a boulder riffle to stabilize the reach. The extent of the improvements will be approximately 200 feet long. USACE and PPRBD permits have been obtained. Currently negotiations with El Paso County are ongoing for the use of the public right of way as it relates to the grading and erosion control permit.

Contractor:	Tezak Heavy Equipment
Notice to Proceed:	TBD
Completion Date:	TBD
Status:	Construction Contract Awarded

Utilities SSCC Program Activities (Continued)

Monument Creek at Monument Stream Stabilization - Design

This project is being designed to reduce risk to Utilities infrastructure in the vicinity of Monument Creek at Monument Street. Channel degradation has exposed the toe of an existing drop structure and resulted in bank erosion. The design of the project extends over 3,000 feet and will consist of drop structures, rock riffles, bendway weirs, and bank armoring. Project design is complete and permitting with USACE and FEMA is ongoing. Construction is anticipated to commence in 2023.

Engineer/Contractor:	Dewberry
Notice to Proceed:	January 2020
Completion Date:	February 2022
Status:	Design complete, undergoing permitting

Broadmoor Valley Park - Design

Channel degradation through a drainage inside Broadmoor Valley Park threatens a sewer that and crosses the drainage near Hidden Creek Drive. The project is being designed internally by Utilities engineers and will utilize sculpted concrete drops and riprap bank protection to stabilize the reach. Design is currently at 30% status and a permitting approach is being developed with ERO Resources.

Engineer:	Internal
Notice to Proceed:	TBD
Completion Date:	TBD
Status:	30% Design Completed

South Douglas Creek Upstream of I-25 Stream Stabilization- Construction

Channel degradation in South Douglas Creek threatened a sewer that parallels and crosses the drainage upstream of I-25. The project was designed internally by Utilities engineers and utilized riprap bank protection and the construction of an ungrouted boulder riffle. This project was constructed in partnership with the City of Colorado Springs Stormwater Enterprise as they worked on channel stabilization nearby.

Contractor:	Tezak Heavy Equipment
Notice to Proceed:	July 2021
Completion Date:	July 2021
Status:	Complete

Sand Creek Stabilization Karr to West Fork Confluence - Design

Channel degradation in Sand Creek from Karr Road to the confluence with the West Fork of Sand Creek threatens a wastewater pipeline running parallel to Sand Creek. The erosion also places a drop structure and creek crossing at risk. This project is under internal design and will result in the installation of drop structures and bank protection. Construction is anticipated to begin in 2022 depending on the timing for receiving permits from FEMA and USACE. This project will be constructed in conjunction with the West Fork of Sand Creek Stream Stabilization project, with exact timing depending on project costs.

Engineer:	Internal Design (Utilities)
Notice to Proceed:	2019
Completion Date:	Projected Mid-2022
Status:	Design and Permitting In-Progress

Utilities SSCC Program Activities (Continued)

North Rockrimmon Creek - Construction

Bank erosion on North Rockrimmon creek was threatening a sewer pipeline and manhole located adjacent to the channel. The project involved placing riprap toe protection at the bottom of a vertical bank and placing riprap to stabilizing a steep hillslope that was presented risk to a manhole. The project was designed internally by Utilities engineers and constructed in 2021.

Contractor:	Tezak Heavy Equipment
Notice to Proceed:	November 2021
Completion Date:	December 2021
Status:	Complete

Cottonwood Creek Austin Bluffs Pkwy to Powers Blvd Stream Stabilization - Design

Project consists of design of approximately 8,500 feet of stream stabilization on Cottonwood Creek from Austin Bluffs Parkway to just east of Powers Boulevard. This project is being funded jointly by Utilities and the City Stormwater Enterprise. Due to the length and vertical relief of the reach, it is anticipated to be a multi-year project with several design and construction phases. The final design will result in multiple grade control structures and bank protection elements in order meet design goals. Utilities provided funds in 2019 to partner with the City on this project, but many of the design activities were performed in 2021.

Engineer:	Matrix Design Group
Notice to Proceed:	February 2020
Completion Date:	TBD
Status:	Design In-Progress

Sand Creek Downstream of the East Fork Confluence Stream Stabilization - Construction

Channel degradation on Sand Creek resulted in two existing vertical sheet pile cutoff walls beginning to become compromised. This project will converted the concrete cutoff walls to grouted sloping boulder drop structures and provided a long-term channel stabilization solution. Downstream of the project a sheet pile cutoff wall was installed to protect against potential future channel degradation. Bank protection and vegetative establishment were be included as part of the project. This project protects wastewater pipelines running parallel to Sand Creek as well as the grouted boulder drop structures. Construction was completed in

Engineer:	Internal Design (Utilities)/Tezak Heavy Equipment
Notice to Proceed:	February 2021
Completion Date:	August 2021
Status:	Complete

Utilities SSCC Program Activities (Continued)

Middle Tributary Upstream of I-25 Channel Stabilization- Design

Channel degradation on Middle Tributary threatens a force main that crosses the drainage upstream of I-25. Significant sediment aggradation due to upstream sediment moving downstream as resulted in a destabilized condition due to impacts to vegetation. This project will be design and constructed in partnership with the City of Colorado Springs Stormwater Enterprise in order to achieve efficiency in the expenditure of funds by partnering together on a reach of stream stabilization in which both parties have interest in restoring.

Engineer:	Watervation
Notice to Proceed:	TBD
Completion Date:	TBD
Status:	Initiation

Cottonwood Creek Upstream of Academy Blvd. Stream Stabilization - Construction

Three vertical concrete walls were constructed in series on Cottonwood Creek upstream of Academy Boulevard. In 2015, the lowermost drop failed and was replaced with a grouted boulder drop structure. The Cottonwood Creek Interceptor, a 24-inch to 30-inch sanitary sewer, runs parallel to Cottonwood Creek on the left (south) bank through this reach. This sewer was at risk from drop structure failure and the expected stream degradation that would follow. This project converted the remaining two vertical concrete walls to more robust grouted boulder drop structures and reduced the risk to Utilities' infrastructure.

Contractor:	Tezak Heavy Equipment
Notice to Proceed:	August 2021
Completion Date:	December 2021
Status:	Closeout

Drainage Operations and Maintenance Activities Undertaken During the Reporting Period

The essential functions of the Public Works Operations and Maintenance Division, Drainage Operations and Maintenance Program are critical to maintaining the City's drainage infrastructure. These functions primarily include:

- Permanent Public BMP Inspections
- Permanent Public BMP Maintenance
- Open Channel Inspections
- Open Channel Maintenance
- Storm Sewer Maintenance/Vacuum-Truck Operations
- Stormwater Pipe Repair/Replacement
- Street Sweeping Operations
- Illicit Discharge Responses

To assist with consistent performance of these activities, Standard Operating Procedures (SOPs) for each of the above functions have been developed. The SOPs define, among other things, the purpose of the activity, scope, number and type of equipment required, minimum number of personnel required, training requirements, responsibilities and the standard procedures to be followed.

During the 2021 calendar year, the Drainage O&M Program completed the following activities:

- Completed inspections of all 140 publicly maintained regional and sub-regional detention ponds/facilities
- Completed identified maintenance activities within 48 publicly maintained regional and sub-regional detention facilities (including debris removal, sediment removal, mowing, tree trimming, and minor structure maintenance), resulting in removal of 16,984 cubic yards of sediment and debris
- Completed inspections of 4.43 miles of concrete-lined and natural channels
- Performed maintenance activities through 36.39 miles of concrete-lined and natural channels, including removal of 8,676 cubic yards of sediment, vegetation, and debris
- Completed 4,831 separate storm sewer maintenance/vacuum-truck operations (including cleaning of storm sewer inlets and storm sewer pipe cleaning), resulting in removal of 1,065.3 cubic yards of debris
- Repaired, replaced, or installed 2,234 linear feet of stormwater conveyance pipe
- Performed street sweeping operations on 22,153 lane miles of city streets, removing 32,270 cubic yards of debris

2021 MS4 Permit Compliance Summary

The City's MS4 Permit requires the implementation and operation of several specific programs and program components, including public outreach activities, commercial/residential management, illicit discharge management, construction site management, yearly reporting and compliance tracking, wet and dry weather monitoring, and the municipal facilities runoff control program. Several highlights of program compliance are described below.

Public Outreach Activities

The City's MS4 Permit requires public education and outreach activities related to the following:

Educational activities to promote reporting of illicit discharges and improper disposal activities conducted during the reporting period included:

- Illicit Discharge Detection
    - Provided online training to:
        - 139 new field employees
        - Annual IDDE refresher training to 465 field employees
        - CCTV training to 46 firefighters and first responders
    - Staff appeared on the local Fox 21 news stations Loving Living Local program and performed an interview on Illicit Discharges, how they impact the community, and what to do in case of a spill.

Public education activities to promote proper management and disposal of potential pollutants conducted during the reporting period included:

- Presentations provided (i.e., schools, community events): 53
    - Number of students and citizens reached (i.e., schools, community events): 875
    - Regional Stormwater Advertising Campaign reaching multiple counties and jurisdictions, including advertising on public buses, benches, and radio and television spots (i.e., pet waste, used oil, and illicit discharge related advertising on billboards and other signs): 9,337,432
    - Storm Drain Art Project: Completed two murals by a School District 11 High School and one by the Goodwill Possibilities Program building
    - Adopt-A-Waterway Program: 1,434 volunteers
- Educational materials distributed:
    - School Items: 7,756
      (i.e., droplet figurines, pencils, magnets, activity guides and crayons, tattoos, post cards, bracelets)

Household chemical waste collection program education and outreach activities during the reporting period included:

- The City continued to participate in the El Paso County Household Hazardous Waste Collection Program in a continued commitment to make reasonably available to residents the means to recycle or properly dispose of the more common household chemical wastes.
- Distributed brochures related to the participation in the El Paso County Household Hazardous Waste Collection Program to local oil recycling facilities.

Industrial facilities program education and outreach activities during the reporting period included:

- 1,487 businesses targeted to receive education and outreach material with focus on food truck guidance, oil, and concrete waste.
- By early March 2020, 115 industrial facilities had been identified that were operating without an individual industrial stormwater discharge permit from CDPHE. Due to the coronavirus pandemic (COVID-19) and the hardships of many small businesses as a result, these facilities were not contacted since it is not an MS4-permit requirement. During the MS4 permit renewal process it was discovered that there will be new industrial requirements in the MS4 permit related to these tasks. Education and outreach to these facilities will be conducted under the new permit term.

Training and education for construction site operators during the reporting period included:

- The City conducted three outdoor Stormwater Temporary Control Measure (TCM) Field Academy training for members of the construction community to provide hands-on training on proper installation and maintenance of construction control measures.
- The City hosted four Grading and Erosion Control (GEC) and Stormwater Management Plan trainings virtually to the construction and engineering community.
- The City hosted two Stormwater Management Plan (SWMP) courses for members of the construction community.
- The City participated in six "Wet Wednesdays" stakeholder meetings held virtually and at the area Home Builder's Association (HBA) offices. Topics included:
    - CDPHE Updates: Significant Changes to the General Permit.
    - SCM Requirements: Maintaining GEC Site Compliance.
    - El Paso County Lot Control Measures: Inspection & Reporting.
    - Approved Sediment & Erosion Control Measures: Using Alternate Specs.
    - Dewatering Permits: An Overview.
    - Conversion of Temporary Sediment Basins & Traps to Permanent Water Quality Structures.

Private BMP Inspection and Tracking

City inspectors conduct inspections at various points of construction projects for conformance with construction specifications and compliance with MS4 related stormwater regulations. Additionally, the City completes required annual inspections of existing private permanent BMPs in accordance with issued private BMP maintenance agreements. The constructed permanent private BMPs (i.e., extended detention basins, porous landscape detention basins) are tracked in a database maintained by the City to ensure private BMPs are inspected and maintained appropriately. Approximately 2,178 inspections of private BMPs were conducted by the City in 2021, either during construction phases or associated with annual compliance requirements, which resulted in 10 enforcement actions.

- Private Structures Operation and Maintenance (O&M) Program Sites: 445
    - Structures Within Private Structures O&M Program: 616
- Total Private BMP Inspections: 2,178
    - Construction Inspections: 1,586
    - Compliance Inspections: 592
- Total Permanent BMP Enforcement Actions: 10

Construction Site Inspections

In 2021, seven full-time MS4 inspectors were dedicated to the MS4 Program, with six inspectors dedicated through the first three quarters of the year and a seventh added in October 2021. During the 2021 reporting year, the City MS4 Program construction inspection team completed the following:

- Total inspections: 5,823
- Active construction sites through the year: 305
- Initial Inspections: 153
- Final Inspections: 214
- Routine Inspections: 3,906
- Complaint Inspections: 0
- Follow-up Inspections and storm event inspections: 1,433

Construction Site Enforcement:

- Notice and Order: 1
- Letter of Non-compliance: 95
- Stop Work Orders: 21

Continuing Education:

The City MS4 Program construction inspectors respond to after-hours emergency spill calls that are received through the City's Spill Hotline. The inspection team has received the following training to assist with their safety while responding to emergency spill calls:

- Hazardous Waste Operations (Hazwoper) 24-hour training course (2 inspectors)
- Hazwoper 8-hour refresher training (2 inspectors)

Illicit Discharge Detection and Elimination (IDDE) Program

In 2021 the IDDE Program received 193 reports of illicit discharges. Of those reported, only 40 incidents were classified as an illicit discharge that reached the MS4 or Waters of the State.

IDDE Enforcement:

- Verbal Warnings Issued: 50
- Educational Brochures Distributed: 65
- Letter of Non-Compliance Issued: 1
- Notice of Violation Issued: 3

IDDE Training Presented to Field Staff:

- IDDE training was provided to both City and Utilities field staff with an emphasis on how to identify and respond to illicit discharges in the field.
- Due to Covid-19 precautions, City field staff were provided with online illicit discharge training. 139 new field staff received the training during the City's onboarding process and 465 field staff received annual refresher training.

Stormwater Development Review

At the end of 2020, the Stormwater Enterprise Development Review team implemented a new Electronic Review System. This system is used for all drainage report, grading erosion control, drainage related design plans, and construction drawing reviews. 3,251 reviews were completed by stormwater staff in this system in 2021. Please note that planning reviews (plats, development plans, etc.) are handled separately by the City Planning Department and therefore are not included in this number.

Yearly Reporting and Compliance Tracking

Annual reporting related to the City's MS4 Permit is required to be submitted in April of each year. The report is created from data and tracking of that data throughout the year. A copy of the 2020 annual report was submitted to the Colorado Department of Health and Environment (CDPHE) on March 24, 2021.

Wet Weather Monitoring

The Wet Weather Monitoring report is an additional requirement of the City's MS4 Permit that is required to be submitted in June of each year. The majority of this data comes from monitoring and testing conducted throughout the City by the United States Geological Survey (USGS) under a joint funding agreement with USGS and Utilities. A copy of the 2020 annual monitoring report was submitted to the CDPHE on May 25, 2021.

Municipal Facilities Runoff Control Program (MFRCP)

The MFRCP program is administered by the City's Stormwater Water Quality Program Manager along with various representatives from the City vehicle maintenance group, City Public Works Operations and Maintenance Division, City Parks and Recreation Department, City Fire Department and the City Police Department. There are currently 41 MFRCP sites within the City's MS4 jurisdiction. Each year site plans for each MFRCP site are updated, inspections of the facilities are conducted, and MFRCP related training is administered.

MS4 Permit Renewal

The City commenced discussions associated with the City's MS4 permit renewal process with the CDPHE for Colorado Discharge Permit System (CDPS) Permit COS000004. The permit is expected to be reissued in 2022 with a term extending between 2023 and 2028.

E. Coli TMDL

In 2021, the City and Utilities continued to implement activities and program elements identified in the Fountain Creek Watershed Environmental Protection Agency Nine-Element Plan for the Management of *Escherichia Coli (E-coli)*. These efforts were in preparation of the anticipated implementation of a Total Maximum Daily Load (TMDL) standard for *E. coli* affecting the Fountain Creek watershed in the immediate future by the CDPHE. As part of USEPA's new national vision for the Clean Water Act (CWA) 303(d) program (Impaired Water Listing and TMDL Program), States are required to identify priority areas for TMDL development through 2022. The purpose of the regional watershed planning group was to preemptively create a plan in preparation for this anticipated requirement. To date, the City/Utilities have dedicated $25,000 to the Arkansas and Fountain Coalition for Urban River Evaluation (AF CURE) for these efforts.

It is anticipated that there will not be a TMDL in the renewal of the City's CDPS MS4 Permit COS000004, although a TMDL is still expected to be implemented in the future.

5.0 Planned 2022 IGA Related Activities

Section III of the IGA outlines special provisions agreed to in the agreement by the IGA Parties. The following provides a summary of planned compliance activities by the City and Utilities for the upcoming reporting period related to Section III of the IGA.

Paragraph III.A – Stormwater Expenditures

Paragraph III.A(1) - Expenditures by the City and Utilities

For the 2022 calendar year, the City and Utilities are required to invest a minimum of $16.5 million dollars on the City's Stormwater Control Program, with a goal of $22 million dollars.

IGA Requirement	Minimum Total Expenditures	Average Annual Expenditures	Minimum Annual Expenditures
Second Five Years (2021-2025)	$110 Million	$22 Million	$16.5 M/yr.

- The approved 2022 City of Colorado Springs budget titled *Annual Budget, 2022,* describes the 2022 Stormwater Enterprise budget. The document can be downloaded at:

  https://coloradosprings.gov/budget/page/city-budget

- The 2022 Utilities budget allocates $3,300,000 as part of Utilities' SSCC Program.

- Planned IGA related activities in 2022 include, but are not limited to:
  - Coordination and delivery of ongoing IGA capital projects;
  - Completion of 2021 engineering studies;
  - Commencement of additional IGA capital design and construction projects

Paragraph III.A(2) - Annual Report of Expenditures

The IGA requires that in order to verify whether the City's and Utilities' expenditures on the Stormwater Control Program meet or exceed the requirements of paragraph III.A(1), each year the City and Utilities shall file with Pueblo County a report containing an estimate of expenditures on or before January 31 of the year following the expenditures, followed by the filing of a preliminary report on or before March 31, and with a final report to be filed on or before June 30 of that year based on audited financials. These reports are to provide appropriate details concerning the timing, amount and nature of all such expenditures made by the City and Utilities during the prior year for Capital Projects, O&M, MS4 Permit compliance, protection of Utilities infrastructure from stormwater, and any other relevant categories.

- The City and Utilities will prepare and file a report to document the expenditures for the 2022 calendar year and provide a summary of the associated Stormwater Control Program activities accordingly.

Paragraph III.B – Stormwater Capital Improvement Program

Paragraph III.B(2) - Identification of Capital Projects

Paragraph III.B(2)a. states that beginning with the 2016 calendar year and extending through the Term of the IGA Agreement, the Engineering Representatives of the Parties shall meet on or before March 31 of each year in order to prepare, review, discuss and update, as necessary, a five-year CIP for the City and a three-year CIP for Utilities, which shall include a list of Capital Projects, the construction of which will commence in the upcoming years.

- Staff members from the City, Utilities, and WWE plan to meet prior to March 31, 2022.

Paragraph III.B(2)c. states that Utilities shall reimburse Pueblo County up to $10,000 each year (commencing in 2016) to defray the actual cost incurred by Pueblo County of using any outside engineering consultants to conduct these yearly reviews and any associated inspections, payable within 30 days of Utilities' receipt of a statement from Pueblo County evidencing such costs.

- Utilities plans to meet the obligation accordingly.

Attachment A

City of Colorado Springs Stormwater Program Project List

Total Estimated Capital Cost (2016$) [6) 7)]	Protect Public Safety/Pro	Improve Failing Infrastru	Enhance Community	Distribute Within the Cit	Enhance Sediment/Debr Capture	Reduce Sediment Genera Enhance Soil Stewards	Improve Water Quality	Provide Detention	Downstream Priority Score	Critical City Project	WWE "Down-stream Benefit" Ranking	City Priority Ranking	Comme
$3,076,000			X		X	X	X	X	4	Yes	1	1	Compl
$2,081,000	X	X	X		X	X	X		3	Yes	6	2	Originally scheduled to be con FEMA grants received and exte completed in e
$250,000			X	X	X		X	X	3	Yes	7	3	Compl
$500,000			X		X		X	X	3	Yes	9	4	Compl
$2,000,000	X		X			X			1	Yes	16	5	To be constructed in 3 phases. completed in 2020. Phase constructio
$7,500,000	X	X	X						0	Yes		6	On-going annu
$398,000			X	X	X	X	X	X	4		5	7	CDOT grant; pending design; e date Fall to l
$2,250,000	X	X							0	Yes		8	Compl
$5,290,000	X		X			X			1		22	9	Compl
$500,000			X		X		X	X	3	Yes	9	4	Compl
													Modified from original IGA list Replaced PR-6 and PR-9 with Ye in same genearal area; PR-11 re slightly to the west and increas

Capital Cost (2016$) [6) 7)]	Prote	Impr	Enha	Distri	Enha	Redu	En	Impr	Prov	Priority Score	Critical City Project	Benefit" Ranking	Priority Ranking	Comme
~~$1,591,000~~			~~X~~	~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~4~~		~~4~~	~~12~~	~~Include channel in~~ **Replaced with Project #101: Regional Dete**
$1,100,000			X	X	X	X		X	X	4		4	12	Located northeast of original St location, on the north side of C Replacement project for Storag **Complete**
$500,000			X		X			X	X	3	Yes	9	4	**Compl**
~~$461,000~~			~~X~~	~~X~~				~~X~~	~~X~~	~~2~~		~~14~~	~~13~~	**Located on private land. Rep Pine Creek Drainage Corr**
$500,000			X	X	X	X		X	X	4			13	Located in the Pine Cre Replacement project fo **Compl**
$1,270,000	X	X	X							0	Yes		14	Localized flooding. Design to e Orginal IGA Budge **Compl**
$1,370,000		X	X	X						0	Yes		15	**Compl**
~~$4,356,000~~	~~X~~	~~X~~	~~X~~					~~X~~		~~1~~	~~Yes~~	~~18~~	~~16~~	~~**Readiness for Implementation** Cost shown is for downstrea restoration/lini~~ **Project Redefined to Rockle**
$1,000,000	X	X	X			X		X		2	Yes	18	16	Channel improvements. Cost sh improvements upstream of Ch Creek.**Cor**
~~$704,000~~			~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	~~3~~		~~8~~	~~17~~	~~Spring Creek Replaced with Project #102: Facili~~

	Capital Cost (2016$) [6) 7)]	Prote	Impr	Enha	Distr	Enha	Redu Er	Impr	Prov	Priority Score	Critical City Project	Benefit Ranking	Priority Ranking	Comme
eet	$500,000			X		X		X	X	3	Yes	9	4	**Compl**
	~~$754,000~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~3~~		~~10~~	~~18~~	~~Cottonwood Cre~~ **Replaced with Project #10**
	$754,000			X	X	X		X	X	3		10	18	Monument Branch existing retrofit in accordance wi Construction planne
	~~$3,768,000~~			~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~3~~		~~11~~	~~19~~	~~Cottonwood Cre~~ **(Moved to**
	$3,500,000	X	X				X	X		2	Yes	15	23	Redefine project to address railroad to east. **(Moved Up** planned in
ete (CS-	$1,025,000					X		X	X	3		12	20	Currently have 50 year protec capacity. **Desig**
2)	$500,000			X		X		X	X	3	Yes	9	4	Manual to guide L Colorado S
	~~$3,750,000~~	~~X~~		~~X~~						~~0~~	~~Yes~~		~~21~~	~~**Localized flooding.** Evaluate detention s~~ **Replaced with Project #10 Improvement**
	$3,750,000	X		X			X	X		2	Yes		21	Pine Creek drainage basin. Co 2022
el -	$1,236,000					X	X			2		13	22	~~Desire for provision for regular~~ **Utilities installed two drop stru in 2017. WWE and the City vis on October 12, 2018 and deter complete. Complete**
	~~$3,500,000~~	~~X~~	~~X~~				~~X~~	~~X~~		~~2~~	~~Yes~~	~~15~~	~~23~~	~~Redefine project to address reach east. City has conceptual desig project.~~ **(Moved**

	Capital Cost (2016$) [6) 7)]	Protec	Impro	Enhan	Distrib	Enhan	Reduc Enh	Impro	Provid	Priority Score	Critical City Project	Benefit" Ranking	Priority Ranking	Comme
	$1,778,000	X		X			X			1		17	25	Compl
~~n~~	~~$1,242,000~~	~~X~~		~~X~~			~~X~~			~~1~~		~~20~~	~~26~~	Project #35 replaced wit Improvements Phase 1 a
~~d.~~ rn	~~$6,594,000~~	~~X~~		~~X~~			~~X~~			~~1~~		~~21~~	~~27~~	~~On Sand Cree~~
	$3,000,000	X		X			X			1		21	27	Project #106 Cottonwo Replaced Former Project #12 - (2026-2
lvd	~~$3,500,000~~	~~X~~	~~X~~	~~X~~				~~X~~		~~1~~		~~23~~	~~28~~	~~Bundled and phased with other~~ Project #107 Cotto P to
	$3,500,000	X		X			X			1		23	28	
~~-~~	$420,000						X			1		24	29	Black Squirrel Creek Channe **Compl**
~~nel~~	$2,006,000						X			1		25	30	
nel	$1,192,000						X			1		26	31	
~~k~~ -	$2,383,000						X			1		27	32	

	Capital Cost (2016$) [6) 7)]	Prote	Impro	Enhar	Distri	Enhar	Reduc Enh	Impro	Provi	Priority Score	Critical City Project	Benefit" Ranking	Priority Ranking	Comme
	$458,000						X			1		31	36	**Compl**
~~ek~~	~~$7,464,000~~	~~X~~		~~X~~			~~X~~			~~1~~		~~32~~	~~37~~	~~Shifted up from original 2024 project sch~~ ~~**Moved to 2026-2035**~~
	$3,000,000	X		X			X			1		32	37	**Cottonwood Cr Replaced Former Project #2 Channel and Shooks Run Imp 2035**
	$3,507,000	X		X			X			1		29	34	Shifted down from original 2 2024 project
	~~$3,908,000~~	~~X~~		~~X~~			~~X~~			~~1~~		~~30~~	~~35~~	~~Shifted down from original 2 2024 project~~
	$1,200,000			X	X		X			1		30	35	
on	$2,553,000	X		X			X			1		33	38	Portions of original scope hav
my	$1,593,000	X		X			X			1		34	39	On main stem o
ek	$867,000						X			1		35	40	
k on,	$1,247,000						X			1		36	41	
	$1,545,000						X			1		37	42	
0lf	$175,000						X			1		38	43	
	$72,000						X			1		39	44	

	Estimated Capital Cost (2016$) [6) 7)]	Protect	Improve	Enhance	Distribu	Enhance	Reduce / Enhan	Improve	Provide	Downstream Priority Score	Critical City Project	stream Benefit" Ranking	City Priority Ranking	Comme
	$3,768,000			X	X	X		X	X	3		11	19	Cottonwood Cre (Moved Down
,	$5,066,000	X		X			X			1		43	48	
	$3,768,000	X		X			X			1		44	49	
	$1,298,000	X		X			X			1		45	50	
d	$1,941,000	X		X			X			1		46	51	
s	$2,250,000	X		X			X			1		47	52	
ks on,	$11,854,000	X		X			X			1		48	53	
	$9,921,000	X		X			X			1		49	54	
4 op	$4,636,000	X		X			X			1		50	55	
g 3	$3,803,000	X		X			X			1		51	56	
ile	$4,235,000	X		X			X			1		52	57	Fountain
d	$4,551,000	X		X			X			1		53	58	Fountain
	$478,000	X		X			X			1		54	59	CSU has done partial work complete p

Estimated Capital Cost (2016$) [6) 7)]	Protect P	Improve	Enhance	Distributi	Enhance	Reduce S Enhan	Improve	Provide D	Downstream Priority Score	Critical City Project	stream Benefit" Ranking	City Priority Ranking	Comme
$515,000	X	X					X		1		58	63	
$6,594,000	X		X			X			1		59	64	On Sand Cree **Moved Fro**
~~$3,000,000~~	~~X~~	~~X~~	~~X~~				~~X~~		~~1~~		~~59~~	~~64~~	~~Bundled and phased wi~~
~~$7,464,000~~	~~X~~		~~X~~			~~X~~			~~1~~		~~60~~	~~65~~	~~**Project #62 mov** **Compl~~
~~$1,500,000~~	~~X~~	~~X~~	~~X~~				~~X~~		~~1~~		~~60~~	~~65~~	~~Bundled and phased wi~~
~~$1,500,000~~	~~X~~	~~X~~	~~X~~				~~X~~		~~1~~		~~61~~	~~66~~	
$2,800,000	X	X	X	X					0			67	Five neighborhoods experier **Compl**
$1,641,000	X	X	X						0			68	Replacing failing i
$457,000	X	X		X					0			69	
$2,088,000	X	X	X						0			70	

	Total Estimated Capital Cost (2016$) [6) 7)]	Protect Public Safety/Property	Improve Failing Infrastructure	Enhance Community	Distribute Within the City	Enhance Sediment/Debris Capture	Reduce Sediment Generation/ Enhance Soil Stewardship	Improve Water Quality	Provide Detention	Downstream Priority Score	Critical City Project	WWE "Down-stream Benefit" Ranking	City Priority Ranking	Comme
~~-~~														Remove from list, per
~~d.~~														Redundant with Pro
														Change to an "Emergency "pro effort. Remove from this
														Not on the SNA "Validated
														Remove from list, per WWE (0 with Emergency Stormwa
														Area identified in previous MS completed with Emergency Sto 2016. Removed from list follow WWI

ty

(e.g., debris basins)

vardship (e.g., bank stabilization, channel stabilization, channel grade control, floodplain preservation/enhancement)

	Total Estimated Capital Cost (2016$) [6) 7)]	Protect Public Safety/Property	Improve Failing Infrastructure	Enhance Community	Distribute Within the City	Enhance Sediment/Debris Capture	Reduce Sediment Generation/ Enhance Soil Stewardship	Improve Water Quality	Provide Detention	Downstream Priority Score	Critical City Project	WWE "Down-stream Benefit" Ranking	City Priority Ranking	Comme
		Prioritization Criteria (see notes below)									Priority Ranking			

on through 2018: Budgeted $1,081,000 (2016); $500,000 (2017); $500,000 (2018).
one per year at $500,000 each between 2016-2020. First pond to be intiated with America the Beautiful Park detention basin in 2016.
tal cost (2016-2020); budgeted at $1.5 Million per year ongoing.
ng Camp Creek channel may be done as funding becomes available.
funding and City grant match encumbered in 2015. No 2016 City capital contribution for this project.

ional detail on project funding.
or each project. Total Stormwater Control Program yearly capital expenditures depend on the number of projects underway and the project phase(s) performed in a given year. T
r 20, 2018.