



January 29, 2021

Brent Esplin
Regional Director
Great Plains Regional Office
Bureau of Reclamation
P.O. Box 36900
Billings, MT 59107-6900

Subject: Southern Delivery System Permit Compliance Annual Report (Calendar Year 2020)

Mr. Esplin:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report (PCAR) for Calendar Year 2020. This report demonstrates the SDS Project's progress in successfully implementing the commitments prescribed in the SDS Record of Decision (ROD), Reference No.: GP-2009-01, as well as meeting the annual reporting requirements for other programmatic permits and approvals.

Due to SDS becoming operational in April 2016, this report addresses compliance for both construction and operational activities associated with the project. Applicable compliance activities associated with Phase II planning and design will be incorporated into future PCARs; however, until Phase II enters the construction phase, all future reports will focus on operational compliance.

I certify that, to the best of my knowledge, the content of this report is true and accurate. As noted herein, SDS has complied with all applicable permit requirements.

Please contact me at 719-668-8679, with any questions regarding the attached report.

Sincerely,

A handwritten signature in blue ink, which appears to read 'David Padgett', is positioned above the printed name and title.

David Padgett
Chief Environmental Officer

Enclosure

cc: City of Fountain, Dan Blankenship, Director of Utilities
Colorado Department of Public Health and Environment, Pat Pfaltzgraff, Director,

Water Quality Control Division

Colorado Parks and Wildlife, Brett Ackerman, Regional Manager, Southeast Region
Fountain Creek Watershed Flood Control and Greenway District, Bill Banks, Executive
Director

Pueblo County Planning & Development, Gail Wallingford-Ingo, Director

Pueblo West Metropolitan District, Jim Blasing, Director of Utilities

Security Water and Sanitation District, Roy Heald, District Manager

U.S. Army Corps of Engineers, Patrick Stevens, Lieutenant Colonel, U.S. Army, District
Commander

Bureau of Reclamation, Terry Stroh, Environmental Specialist

El Paso County, Craig Dossey, Executive Director, Planning and Community Development
Department

Southern Delivery System Permit Compliance Annual Report Calendar Year 2020

Prepared for:

Bureau of Reclamation

**Colorado Department of Public Health and
Environment**

Colorado Parks and Wildlife

El Paso County

Pueblo County

**Fountain Creek Watershed, Flood Control, and
Greenway District**

Submitted by:

**Colorado Springs Utilities, SDS Project Manager
on behalf of the SDS Participants**

January 2021

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Acronyms and Abbreviations

1041 Permit	Pueblo County 1041 Permit No. 2008-002
BMPs	Best Management Practices
CPW	Colorado Parks and Wildlife
CDPHE	Colorado Department of Public Health and Environment
CWC	Colorado Wildlife Commission
CWCB	Colorado Water Conservation Board
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
mgd	million gallons per day
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SDS	Southern Delivery System Project
SDS Participants	City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey
WRRF	water resource recovery facility
WTP	water treatment plant

Executive Summary

The Southern Delivery System Project (SDS) is a regional water delivery system that serves the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as the SDS Project Manager, is to demonstrate progress in successfully implementing the commitments as prescribed in the Record of Decision (ROD) to the Bureau of Reclamation (Reclamation). Colorado Springs Utilities also reviewed the other seven programmatic permits/approvals that are in place to identify the annual reporting requirements of each. The following five permits/approvals have annual reporting requirements addressed in this report:

- El Paso County Location Approvals
 - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
 - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
 - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
 - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
 - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- El Paso County 1041 Permits
 - Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C, Administratively Approved January 2, 2014
 - Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3, Administratively Approved January 29, 2014
 - Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC, Administratively Approved February 18, 2014
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009

- Fountain Creek Watershed, Flood Control, and Greenway District (District) Resolution 2010-01, February 26, 2010
- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

The following two programmatic permits/approvals do not specifically include annual reporting requirements:

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, May 20, 2010

Reporting Requirements

The ROD requires annual reporting to summarize the SDS's progress made in implementing the ROD commitments. Colorado Springs Utilities has elected to develop a single SDS PCAR that addresses the ROD commitments and the other annual or periodic reporting requirements included in the programmatic permits/approvals that are listed above. This 2020 report focuses on commitments associated with project operations and mitigation project progress.

Summary of SDS Activities During this Reporting Period

Vegetation restoration efforts continued on the Phase I work packages.

Compliance with programmatic permit/approval commitments and construction permit requirements continued to be tracked in 2020 through an Environmental Management System (EMS).

Future SDS Activities

Compliance monitoring will continue for ongoing operational activities. Land acquisition activities associated with Bostrom Reservoir are expected to be completed in 2021. Phase II construction activities have not been scheduled. There have been no material changes to the project as described in the 2009 EIS.

1.0 Introduction

1.1 Purpose

The purpose of the SDS Permit Compliance Annual Report (PCAR), submitted by Colorado Springs Utilities as SDS Project Manager, is to demonstrate the progress in successfully implementing the commitments identified in the ROD (Reclamation 2009). This PCAR has been prepared to be consistent with the ROD and other permits issued by agencies having jurisdiction over SDS, specifically the following programmatic permits/approvals:

- Bureau of Reclamation Record of Decision for the Southern Delivery System Final Environmental Impact Statement, Record of Decision Reference No. GP-2009-01, March 20, 2009
- El Paso County Location Approvals
 - Planning Commission Resolution U-09-002, March 2, 2010, Southern Delivery System Raw Water Pipelines, Amended by Resolution U-12-001, October 18, 2012
 - Planning Commission Resolution U-09-003, March 2, 2010, Southern Delivery System Finished Water Pipelines, Amended by Resolution U-12-003, October 18, 2012
 - Planning Commission Resolution U-09-004, March 16, 2010, Southern Delivery System Bradley Pump Station
 - Planning Commission Resolution U-09-005, March 16, 2010, Southern Delivery System Upper Williams Creek Reservoir, Amended by Resolution U-12-002, October 18, 2012
 - Planning Commission Resolution U-09-007, March 16, 2010, Southern Delivery System Exchange Flow System, Amended by Resolution U-12-004, October 18, 2012
- El Paso County 1041 Permits
 - Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C, Administratively Approved January 2, 2014
 - Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3, Administratively Approved January 29, 2014
 - Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC, Administratively Approved February 18, 2014
- Pueblo County Board of County Commissioners Resolution No. P&D 09-22 approving 1041 Permit No. 2008-02, April 21, 2009
- Fountain Creek Watershed, Flood Control, and Greenway District (District) Resolution 2010-01, February 26, 2010

- Colorado Department of Public Health and Environment (CDPHE) 401 Certification No. 4224, April 23, 2010, which includes the requirement to provide copies of all other annual reports

Colorado Springs Utilities reviewed all eight of the programmatic permits/approvals that are in place to identify annual reporting requirements of each. The following two programmatic permits/approvals do not specifically include annual reporting requirements:

- Memorandum of Agreement with the State of Colorado, Department of Natural Resources on behalf of the Colorado Division of Wildlife regarding the Fish and Wildlife Mitigation Plan, May 18, 2010
- United States Army Corps of Engineers Clean Water Act Section 404 Individual Permit No. SPA-2005-00131-SCO, April 26, 2010

Colorado Springs Utilities prepared an Environmental Commitment Plan and developed a Phase I Environmental Management System (EMS) to track compliance with the commitments associated with all of the programmatic permits/approvals.

1.2 Southern Delivery System Project Overview

SDS is a regional water delivery project that serves the City of Colorado Springs (via Colorado Springs Utilities), City of Fountain, Security Water District, and Pueblo West Metropolitan District (collectively, the SDS Participants).

The first phase of SDS includes construction of the following facilities:

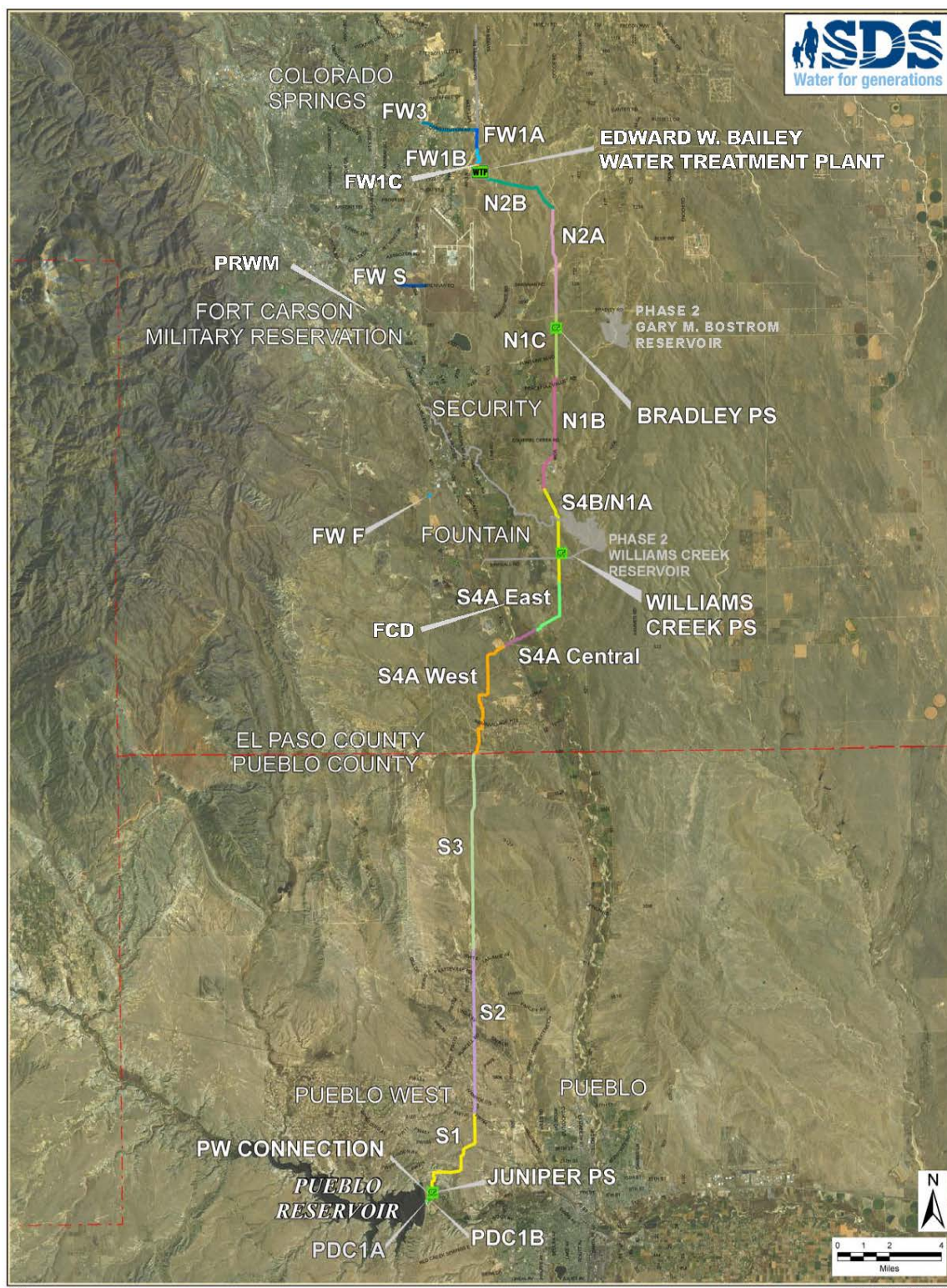
- 45 miles of raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant, the Edward W. Bailey Water Treatment Plant (Bailey WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished water pipelines up to 54 inches in diameter

Phase 2 of SDS includes the following:

- A 30,500 acre-feet terminal storage reservoir on upper Williams Creek, Gary M. Bostrom Reservoir
- Expansion of the 50-mgd raw water pump stations and Bailey WTP to 100-mgd capacity
- Expansion of the treated water delivery system
- A 28,000 acre-feet exchange storage reservoir on Williams Creek, Williams Creek Reservoir, and conveyance facilities to transfer water to and from Fountain Creek for exchange operations

SDS has been broken down into various work packages. The work packages and the facilities identified above are shown on Figure 1.

FIGURE 1. SOUTHERN DELIVERY SYSTEM WORK PACKAGES AND FACILITIES



1.3 SDS Participant Information

Contact details for the SDS Participants and their authorized agent are as follows.

1.3.1 SDS Participants

Colorado Springs Utilities

(Authorized agent acting on behalf of Participants)

Contact: Joseph Rasmussen, Project Supervisor
Leon Young Service Center
1521 South Hancock Expressway
P.O. Box 1103, MC 1821
Colorado Springs, CO 80947-1821
Phone: (719) 668-4173; Fax: (719) 668-5651
E-mail: jrasmussen@csu.org

Security Water District (Participant)

Contact: Roy Heald, District Manager
231 Security Blvd.
Security, CO 80911
Phone: (719) 392-3475; Fax: (719) 390-7252
E-mail: r.heald@securitywsd.com

City of Fountain (Participant)

Contact: Dan Blankenship, Director of Utilities
116 S. Main St.
Fountain, CO 80817
Phone: (719) 322-2040; Fax: (719) 322-2011
E-mail: dblankenship@fountaincolorado.org

Pueblo West Metropolitan District (Participant)

Contact: Jim Blasing, Director of Utilities
20 West Palmer Lake Drive
Pueblo West, CO 81007
Phone: (719) 547-5047; Fax: (719) 547-0719
E-mail: jblasing@pwmd-co.us

1.4 Southern Delivery System Project Regulatory Review Process

SDS has undergone, and continues to undergo, significant regulatory oversight at the federal, state, and local levels. At the federal level, Reclamation has performed extensive and detailed environmental studies as a part of the National Environmental Policy Act (NEPA) process, the culmination of which was a Final Environmental Impact Statement (FEIS) and issuance of a ROD.

The ROD for SDS was issued on March 20, 2009. It identified SDS, as shown on Figure 1, as the Preferred Alternative. SDS has been determined to cause “the least damage to the biological and physical environment” (Reclamation 2009). The ROD included extensive commitments by the SDS Participants to significant, long-term mitigation measures.

Because SDS crosses wetlands and other waters of the United States, it required a permit from the USACE under the dredge and fill material permit program established under Section 404 of the federal Clean Water Act. A Section 404 Permit was received for SDS on April 26, 2010. Colorado Springs Utilities has developed new wetlands as compensatory mitigation under the Section 404 Permit, and provided copies of the mitigation plans to the Fountain Creek Watershed, Flood Control, and Greenway District for review. The jurisdictional wetlands mitigation project was reviewed and approved by the USACE and Fountain Creek Watershed, Flood Control, and Greenway District prior to its construction in September 2011. On January 22, 2015, the USACE determined that the wetland mitigation project was established and complete.

At the state level, the SDS Section 404 Permit received a Certification under Section 401 of the Clean Water Act from the Colorado Department of Public Health and Environment (CDPHE) on April 23, 2010. In February 2011, the State Water Quality Control Commission denied a challenge to the CDPHE (Water Quality Control Division) certification and upheld the certification. In April 2012, the Pueblo County District Court determined that the Commission action was not supported by the administrative record and remanded the certification. In July 2013, the Colorado Court of Appeals ruled that the state Water Quality Control Commission’s approval of the SDS certification was consistent with applicable laws and regulations and was supported by substantial evidence.

Colorado Parks and Wildlife (CPW) also reviewed SDS, and the SDS Fish and Wildlife Mitigation Plan (FWMP) was prepared collaboratively with CPW staff and approved by both the Colorado Wildlife Commission (CWC) and the Colorado Water Conservation Board (CWCB) (Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife 2010). A Memorandum of Agreement implementing the FWMP was executed with the CPW on May 18, 2010.

At the county, regional, and city levels, SDS is subject to a variety of regulatory reviews and associated mitigation requirements, including the following:

- Pueblo County 1041 Permit (No. 2008-002),
- El Paso County Approval of Location, Site Development Plan, and 1041 Permit processes, and
- Land use approval by the Fountain Creek Watershed, Flood Control, and Greenway District (District).

Collectively, these permit conditions include comprehensive and extensive mitigation requirements, which are detailed in the respective resolutions of approval.

2.0 Listing of Permit Compliance Reporting Requirements for SDS

A detailed and specific listing of the permit compliance reporting requirements for SDS for the six programmatic permits and approvals received for SDS that have annual reporting requirements is provided in Attachment 1 – Annual Implementation Progress Matrix.

The Annual Implementation Progress Matrix contains:

- A listing of the environmental commitments for SDS with annual reporting requirements (columns 1 and 2).
- A description of SDS implementation progress towards compliance with each of the commitments (column 3).
- A field to show if additional documentation is included in an attachment to this report (column 4).
- Items that are specific to either construction or operations have been color coded.

Supporting documentation listed in column 4 is provided in the following attachments:

- Attachment 2 - Monthly Average Flow Data from United States Geological Survey (USGS) Gauge Station
- Attachment 3 - Water Quality Monitoring Data
- Attachment 4 - Complaint Log
- Attachment 5 - Emergency Response Log
- Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
- Attachment 7 - Expenditures for Wastewater System Improvements
- Attachment 8 - Summary of Storage, Diversion, Delivery of Water in Pueblo County
- Attachment 9 - Summary of Participants' Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows
- Attachment 10 - Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence
- Attachment 11 – Pueblo Flow Management Program
- Attachment 12 – Geomorphology Monitoring

3.0 Summary of SDS Activities Undertaken During the Reporting Period

SDS Work Package Activities

A number of actions have been taken during this reporting period related to the construction of SDS. Some of the key activities during this reporting period include the following:

Gary M. Bostrom Reservoir

30% design for the Gary M. Bostrom Reservoir was completed in 2016. Land acquisition and cultural resource mitigation activities occurred in 2020. The location of the Gary M. Bostrom Reservoir is shown on Figure 1.

Pinello Ranch Wetland Mitigation (PRWM) Project

Construction of the PRWM project commenced in November 2016, while construction and planting activities were completed in 2017. Activities in 2020 at the PRWM site included vegetation maintenance and noxious weed mitigation. The PRWM project will be used to mitigate a portion of the 12.0 acres of non-jurisdictional wetlands that will be permanently impacted as a result of SDS current and future activities. The location of PRWM is shown on Figure 1.

Fountain Creek Diversion (FCD) Project

Construction of the FCD was completed in 2017, while vegetation restoration and maintenance activities were completed in 2020. Activities in 2020 included vegetation maintenance and noxious weed mitigation. This is the last report that information will be included for this work package. The location of FCD is shown on Figure 1.

Additional SDS Activities

In addition to the milestones listed above, Colorado Springs Utilities engaged in the following initiatives of note during the reporting period:

- Pueblo County SDS 1041 Permit Condition 6 (Monetary Mitigation for Fountain Creek Impacts) – In accordance with Condition 6 of the SDS 1041 Permit and 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), a check dated January 14, 2020 in the amount of \$10,706,513.00 payable to the Fountain Creek Watershed Water Activity Enterprise was delivered by Colorado Springs Utilities to the Fountain Creek Watershed Flood Control and Greenway District Executive Director on January 15, 2020. Additional details are included in Attachment 1.

As outlined in Resolution No. P&D 14-15 and the associated attachment, *“On or before March 31 of each year, CSU staff shall meet with Pueblo County Staff for purposes of confirming*

the PPIs for each of the November to November twelve month periods used in the calculation and reaching agreement upon the index-based amount to be paid by CSU utilizing the calculation methodology (described)....” This meeting was postponed until April 2019 when the originally reported “Preliminary” November 2018 Producer Price Index (PPI) for Finished Goods (WPUFD49207) value of 203.7 was updated to a “Finalized” published value of 204.4 (0.7 points greater than the original published “Preliminary” value).

Based on the increase in the index value, it was calculated that the Total Annual Payment Amount with Indexing for the 2020 payment to the FCWFCDG should have been \$10,696,183, which resulted in an overpayment and credit of \$10,330 to Colorado Springs Utilities. On April 29, 2020, the SDS Partners (Colorado Springs Utilities, City of Fountain, Security Water District, and Pueblo West Metropolitan District) unanimously agreed as part of the SDS Operating Committee’s quarterly meeting to allow the FCWFCDG’s Watershed Water Activity Enterprise to retain the \$10,330 overpayment in 2020 as an additional contribution to the District for use on a future project, program, or study within the Fountain Creek watershed as approved by Utilities on behalf of the SDS Partners.

SDS entities complied with the terms of the Pueblo Flow Management Program. Colorado Springs Utilities exchanges were curtailed to meet the recreational flow targets during the months of October, November and December 2019 and August and September 2020. Pueblo West Metropolitan District exchanges were curtailed to meet the recreational flow targets during the month of September 2019. No other SDS entities were exchanging during this period. While exchanges were curtailed the flow in the Arkansas River below Pueblo Dam did not drop below 50 cfs and no releases were made by Colorado Springs Utilities or Board of Water Works Pueblo per the Low Flow Agreement.

Other Activities

- Stormwater – the City of Colorado Springs, Colorado Springs Utilities, and the County of Pueblo entered into an Intergovernmental Agreement (IGA) on April 27, 2016 related to stormwater management activities. The IGA annual report of final expenditures for the 2019 calendar year was submitted on June 3, 2020. This report is submitted to Pueblo County separately and is not submitted as part of this annual report.

4.0 Future SDS Activities

Anticipated activities for 2021 include:

- Continued land acquisition for SDS Phase II
- Compliance monitoring for operational activities

5.0 References

- Bureau of Reclamation. 2008. Southern Delivery System Final Environmental Impact Statement. December.
- Bureau of Reclamation. 2009. Record of Decision for the Southern Delivery System Project Final Environmental Impact Statement. Record of Decision Reference No. GP-2009-01. Colorado Department of Public Health and Environment. 2010. Section 401 Water Quality Certification; Colorado 401 Certification No.: 4224; U.S. COE 404 Permit No.: SPA-1995-00131-SCO; Description: Southern Delivery System; Location: El Paso and Pueblo Counties; Watercourse: Arkansas River, Fountain Creek and tributaries; Designation: Reviewable (MA01, MA02, MA03, FO02a, FO02b); Use Protected: (FO04, LA01a, LA01b). April 23
- Colorado Springs Utilities, City of Fountain, Security Water District, Pueblo West Metropolitan District, and Colorado Division of Wildlife. 2010. Southern Delivery System Fish and Wildlife Mitigation Plan. March 11.
- El Paso County. 2010a. Planning Commission Resolution U-09-002. For the Approval of Location of the Southern Delivery System Raw Water Pipeline within the A-5 (Agricultural), PUD (Planned Unit Development), RR - 2.5 (Rural Residential) and RR-5 (Residential Rural) Zone District. March 2. Amended by Resolution U-12-001, October 18, 2012
- El Paso County. 2010b. Planning Commission Resolution U-09-003. For the Approval of Location of the Southern Delivery System Finished Water Pipeline within the PUD (Planned Unit Development) Zone District. March 2. Amended by Resolution U-12-003, October 18, 2012.
- El Paso County. 2010c. Planning Commission Resolution U-09-004. For the Approval of Location of the Southern Delivery System Bradley Pump Station within the RR-5 (Residential Rural) Zone District. March 16.
- El Paso County. 2010d. Planning Commission Resolution U-09-005. For the Approval of Location of the Upper Williams Creek Reservoir within the RR-5 (Residential Rural) Zone District. March 16. Amended by Resolution U-12-002, October 18, 2012.
- El Paso County. 2010e. Planning Commission Resolution U-09-007. For the Approval of Location of the Exchange Flow System within the RR-5 (Residential Rural) Zone District. March 16. Amended by Resolution U-12-004, October 18, 2012.
- El Paso County. 2014a. Development Services Department, File No. AASI-13-002, Southern Delivery System Finished Water Section 1C. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designated Area of State Interest in El Paso County, Colorado. January 2.

- El Paso County. 2014b. Development Services Department, File No. AASI-13-005, Southern Delivery System Finished Water Section 3. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designed Area of State Interest in El Paso County, Colorado. January 29.
- El Paso County. 2014c. Development Services Department, File No. AASI-14-001, Southern Delivery System Raw Water Pipeline Section S4AC. Administratively Approved Permit Issued to Conduct a Designated Activity of State Interest or to Engage in Development in a Designed Area of State Interest in El Paso County, Colorado. February 18.
- Fountain Creek Watershed, Flood Control, and Greenway District. 2010. Board of Directors Resolution 2010-01 – Land Use. A Resolution recommending that the El Paso County Planning Commission approve applications by Colorado Springs Utilities and on behalf of the Project Participants for location approvals for the Southern Delivery System located within the Fountain Creek Watershed Management Area and approving those portions of the Southern Delivery System located within the Fountain Creek Corridor. February 26.
- Pueblo County. 2009. 1041 Permit No. 2008-002. The Board of County Commissioners of Pueblo County Colorado; A Resolution Approving 1041 Permit No.2008-002 With Terms and Conditions for Construction and Use of a Municipal Water Project Known as the Southern Delivery System within Pueblo County, Colorado. April 21.
- State of Colorado. 2010. Memorandum of Agreement by and between the State of Colorado, acting by and through the Department of Natural Resources, for the use and benefit of the Division of Wildlife and Colorado Springs Utilities, acting as the Project Manager for the Southern Delivery System. May 18.
- U.S. Army Corps of Engineers. 2010. Department of the Army Permit; Permittee: Colorado Springs Utilities; Permit No. SPA-2005-00131-SCO; Issuing Office: Albuquerque District, U.S. Army Corps of Engineers. April 26.

Implementation Progress Matrix

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Bureau of Reclamation - Record of Decision			
Environmental Commitments			
p. 11, ¶1	Such contracts will, at a minimum, include a requirement for the SDS Participants to submit to Reclamation an annual compliance report that certifies progress in successfully implementing these commitments in a timely manner as prescribed in this ROD and any contracts.	This Permit Compliance Annual Report is being prepared to demonstrate the progress in successfully implementing the commitments as prescribed in the ROD and the annual reporting requirements found in the other programmatic permits and approvals including: the Pueblo County 1041 Permit, the El Paso County Location Approvals, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Participants' Commitments: General Commitments			
p. 12, Bullet 1	Comply with all applicable permits, regulations, and laws including but not limited to CDPHE, USCOE 404, and local land use permits obtained for the SDS Project.	Compliance with permit and regulatory requirements is being tracked through the implementation of an Environmental Management System (EMS). In addition, the construction contract documents for each of the work packages include permit and regulatory compliance requirements. The EMS ensures that all applicable actions necessary for compliance are taken in a timely manner.	No
p. 12, Bullet 2	Construct and operate the SDS Project in a manner that does not differ substantially from that evaluated in this FEIS, except under emergency conditions, and unless additional and appropriate environmental investigations are completed by Reclamation and approval is then given to Participants to alter construction or operation of the SDS Project.	The SDS Participants constructed and will operate the preferred alternative that was identified in the FEIS in a manner that does not differ substantially from that evaluated in the FEIS.	No
Participants' Commitments: Surface Water			
p. 12, Bullet 1	Comply with the Upper Arkansas Voluntary Flow Management Program except during emergency conditions as defined in Section 2.b. of the Memorandum Of Understanding for Settlement of Case No. 04CW129, Water Division 2 (Chaffee County Recreation In-Channel Diversion).	The SDS Participants complied with the Upper Arkansas Voluntary Flow Management Program.	No
p. 13, Bullet 2	Comply with the Pueblo Flow Management Program pursuant to existing intergovernmental agreements. If Reclamation and the Participants receive credible information that project operations are impairing physical diversion of a senior water right, contrary to Colorado water law, the Participants will immediately initiate discussions among the parties, including the party alleging the impairment of Reclamation, to develop a solution and remedy the impairment in compliance with Colorado water law.	SDS Participants complied with the Pueblo Flow Management Program and details are shown in Attachments 8-11.	Attachments 8 through 11.

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, Bullet 3	Participants will consult with Reclamation each year on the average annual flow in Fountain Creek. If the average annual stream flow of Fountain Creek as measured at Pueblo (USGS gauge station number 07106500) exceeds the scope and range of the flow estimated and analyzed in the Final Environmental Impact Statement (see Table 33 of the FEIS), then Participants will coordinate with Reclamation, within their adaptive management plan, to evaluate the cause(s) for the change in flows and determine whether appropriate response actions, such as monitoring and/or mitigation measures, are warranted. Each year, Participants will report to Reclamation the average annual flow in Fountain Creek at Pueblo together with other relevant data.	The average annual flow during this reporting period in Fountain Creek as measured at USGS gauge station number 07106500 was approximately 98.0 cubic feet per second (cfs). Table 33 of the FEIS reported the average annual simulated streamflow at this location under existing conditions as 188 cfs and under the preferred alternative (Alt 2) as 253 cfs. Flows did not exceed the scope and range identified in the FEIS. See Attachment 2 for the monthly average flow data from USGS Gauge Station Number 07106500.	Attachment 2 - Monthly Average Flow Data from USGS Gauge Station Number 07106500
p. 13, ¶1	Surface water mitigation measures will resolve adverse effects to physical diversions of senior water rights.	The SDS Participants are implementing the surface water mitigation measures per the Upper Arkansas Voluntary Flow Management Program and the Pueblo Flow Management Program.	No
Participants' Commitments: Water Quality			
p. 13, Bullet 1	Include water quality monitoring and adaptive management within the integrated adaptive management program (see Participants' General Commitments).	The Monitoring Plan has been completed and was submitted to the Bureau of Reclamation on March 18, 2011.	No
p. 13, Bullet 2	Begin implementing water quality monitoring when construction of the project begins. This will allow about three years of baseline data to be collected before project operations begin.	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 3	Submit water quality monitoring data, including trend analyses, for the preceding calendar year to Reclamation by January 31st of the subsequent year.	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data. USGS reports data on a water year basis (October-September). The annual report will present data based on that reporting period. Trend analysis is not included in this report because Section 14.0 of the IAMP submitted to Reclamation indicates periodic reviews are to begin a minimum of 10 years following the initiation of the SDS Project operations. SDS began operation in April 2016, so trend analysis will not begin until the 2026 reporting year.	Attachment 3 - Water Quality Monitoring Data
p. 13, Bullet 4	If the Colorado Department of Public Health and Environment (CDPHE) determines that operation of the SDS Project is causing significant adverse water quality effects, the Participants will coordinate with Reclamation, CDPHE, and other interested parties to evaluate and select measures to mitigate adverse effects.	CDPHE has not indicated that any adverse water quality effects have occurred due to the operation of SDS.	No
p. 13, Bullet 5	In the event that operation of the SDS Project causes, or threatens to cause, stream flows in the Arkansas River or other waterways to diminish to low levels that will contribute significantly to elevated concentrations/densities of dissolved selenium, <i>E. coli</i> , or sulfate, the Participants will coordinate with Reclamation, CDPHE, CDOW, and other interested parties to evaluate and select measures to mitigate adverse effects.	The SDS Project has not caused or threatened to cause stream flows to diminish to such low levels.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 13, ¶1	Development and implementation of a water quality monitoring and adaptive management plan will provide a means of detecting changes in water quality, judging whether they are likely caused by operation of the SDS Project, and addressing actual effects in a systematic manner. Additionally, implementation of the geomorphology mitigation measures (below) will reduce suspended sediment and total recoverable iron concentrations in Fountain Creek and the lower Arkansas River.	The Monitoring Plan, Geomorphic Mitigation Plan and IAMP have been completed. These plans were submitted to the Bureau of Reclamation in March 2011. The plans will be implemented during the operation of the SDS project in accordance with this commitment.	No
Participants' Commitments: Geomorphology			
p. 14, Bullet 3	Design and construct an energy dissipation structure that will protect against erosion at the outlet of the pipeline from Williams Creek Reservoir to Fountain Creek.	An energy dissipation structure at the pipe outlet will be incorporated in the final design of the Williams Creek Reservoir project.	No
p. 14, Bullet 4	Evaluate and implement appropriate future geomorphic stabilization projects, if such future projects are determined to be necessary after the project is operational.	The Geomorphic Mitigation Plan provides a means for evaluating geomorphic impacts and determining the need for stabilization projects. No need has been identified during the reporting period.	No
p. 14, ¶1	When implemented, these recommendations will mitigate potential adverse effects on geomorphology by avoiding or minimizing effects of return flow discharges through an energy dissipation structure, compensating for anticipated effects, and responding to effects identified after project operations begin.	This requirement is a summary statement of the specific water quality commitments described in the above listed bullets of this section. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No
Participants' Commitments: Aquatic Life			
p. 15, Bullet 2	In the event that the operation of the SDS Project causes, or threatens to cause, stream flows in Fountain Creek or the Arkansas River to diminish to low levels that could contribute significantly to impairment of aquatic life, coordinate with Reclamation, CDPHE, CDOW and other interested parties to evaluate and select measures to mitigate adverse effects.	The SDS Project has not caused or threatened to cause stream flows to diminish to low levels.	No
p. 15, Bullet 4	Monitor the effects of the operation of the SDS Project upon aquatic life in Fountain Creek and the Arkansas River between Pueblo Dam and the Las Animas Gage. Aquatic sampling will be conducted once per year at up to 10 locations. Monitoring methods and locations will be identified in the proposed wildlife mitigation plan that will be submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. Use the information from this monitoring in the adaptive management program for the SDS Project.	Aquatic sampling was performed per the Wildlife Mitigation Plan. There is no indication of adverse impacts to date as a consequence of the limited project operation.	No
p. 15, ¶1	When implemented, these recommendations will mitigate potential adverse effects on aquatic life by avoiding or minimizing effects, compensating for anticipated effects, and detecting and responding to effects identified after project operations begin.	The SDS Participants have implemented the Fish & Wildlife Mitigation Plan as well as the agreements from the MOA with the Colorado Department of Natural Resources during the construction phase and will continue to do so during the operation of SDS.	No
Participants' Commitments: Wetlands, Waters, and Riparian Vegetation			
p. 16, Bullet 5	Control Tamarisk that may establish around newly constructed reservoirs.	This requirement is not applicable yet as no SDS reservoir construction has commenced during this reporting period.	No
Participants' Commitments: Vegetation			

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Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 17, Bullet 8	Monitor construction areas for 3 years after construction to assess if noxious weeds have invaded the site. If noxious weeds are present, weed control plans will be formulated and completed.	As part of the pre-construction vegetation surveys completed for each work package, a noxious weed survey was conducted. The noxious weed survey includes recommended weed control methods. This information was incorporated into the contract documents. Monitoring of construction areas will continue for three years after construction to ensure that any necessary weed control is performed. In 2020, applicable work packages were monitored for noxious weeds, control plans were followed and observed noxious weeds were treated consistent with these plans.	No
p. 17, Bullet 9	Because the project may indirectly increase the spread of tamarisk, the Participants will work with the Colorado Department of Agriculture's Colorado Noxious Weed Management Team on tamarisk issues in the Arkansas Valley including submitting a request for partnership evaluation.	The Fish and Wildlife Mitigation Plan has identified the inlet area at the Pueblo Reservoir as an area of specific interest and identified the Colorado Department of Agriculture's Colorado Noxious Weed Management group as a consulting agency. Appropriate coordination will continue to occur.	No
p. 17, ¶1	Impacts to plant species and communities of concern and other sensitive vegetation areas can be avoided and minimized during final design and implementation. Because mitigation measures such as transplanting of individuals are often unsuccessful, avoidance and minimization will ensure survival, especially of plant species of concern. Seeding disturbed areas, replacing mature trees, and controlling noxious weeds will replace existing vegetation types and structural diversity and will ensure that high quality habitat remained.	As described in the previous responses of this section, numerous measures were implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. No concerns have been identified to date for this item or the previous items of this section.	No
Participants' Commitments: Visual Resources			
p. 20, Bullet 1	Vegetate earthen dam faces with native herbaceous plants to match the adjacent undisturbed prairie plant communities.	This requirement is not applicable yet as the final design of the Gary M. Bostrom Reservoir and Williams Creek Reservoir did not begin during this reporting period.	No
El Paso County - Location Approvals			
El Paso County - Location Approvals did not contain operational requirements.			
El Paso County - 1041 Permits			
El Paso County - 1041 Permits did not contain operational requirements.			
Pueblo County - 1041 permit			

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
7. Expenditures for Wastewater System Improvements, p. 12	In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional \$75,000,000 in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.	Colorado Springs Utilities submitted a wastewater expenditures report documenting 2009 expenditures to Pueblo County on January 29, 2010. The report for 2010 was submitted to Pueblo County on January 31, 2011. The report for 2011 was submitted to Pueblo County on January 26, 2012. The report for 2012 was submitted to Pueblo County on January 31, 2013. The report for 2013 was submitted to Pueblo County on January 31, 2014. The report for 2014 was submitted to Pueblo County on January 28, 2015. The report for 2015 was submitted to Pueblo County on January 16, 2016. The report for 2016 was submitted to Pueblo County on January 31, 2017. The report for 2017 was submitted to Pueblo County on January 29, 2018. The report for 2018 was submitted to Pueblo County on January 31, 2019. The report for 2019 was submitted to Pueblo County on January 30, 2020. The report for 2020 is being prepared and will be submitted to Pueblo County with this Annual Report on or before January 31, 2021.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report
Mitigation Appendix ENF-1, Project Detail, Item 2, p. 23 of 28	2. Submit an annual report to Pueblo County that will provide a summary of activities related to the SDS Project and the Conditions of the Permit. These reports will be due annually on or before January 31, beginning the year following commencement of water deliveries through the SDS pipeline. The reports shall include a signed certification of compliance with the Permit. Contents of the report will include, but will not be necessarily limited to:	This report will satisfy the requirement for the annual report following delivery of water through the SDS pipeline.	
	a. Summary of storage, diversion, delivery of water in Pueblo County.	Summary data from the project Participapants related to the SDS Project is located in Attachment 8.	Attachment 8 - Summary of Storage, Diversion, Delivery of Water in Pueblo County related to the SDS Project

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	b. Summary of Participants' return flows to Fountain Creek including storage and releases of such return flows (maximum daily flows, average annual and monthly flows and amounts).	Summary data from the project Particiapants in located in Attachment 9.	Attachment 9 - Summary of Participants' SDS Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows
	c. Summaries of exchanges by Participants between Pueblo Reservoir and the Fountain Creek confluence (monthly and annual rates of flow and quantities).	Summary data from the project Particiapants in located in Attachment 10.	Attachment 10 - Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence
	d. Use of any new water rights to be delivered or stored through SDS (amount, time, source).	There were no new water rights to be delivered or stored through SDS during the reporting period.	No
	e. Water quality monitoring.	A Joint Funding Agreement was executed with the U.S. Geological Survey (USGS) on the water quality monitoring program. Water quality monitoring began in January, 2011. See Attachment 3 for the water quality monitoring data. Colorado Springs Utilities continues to use effluent monitoring data from its Water Resource Recovery Facilities (WRRFs) to demonstrate the plants are operating in accordance with the specifications and standards associated with permits for its WRRFs. The only permit limit exceedances for the reporting period were at the JD Phillips Water Resource Recovery Facility (JDPWRRF) for the 95th percentile and Running Annual Median of Total Phosphorus (TP). See Attachment 3 for further details. In response to these exceedances, Colorado Springs Utilities has continued to work with the Colorado Department of Public Health and Environment and to seek solutions to improve total phosphorous removal.	Attachment 3 - Water Quality Monitoring Data

ATTACHMENT 1
Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	f. Geomorphology monitoring.	Geomorphic monitoring data has been collected under an existing program led by the USGS in partnership with Colorado Springs Utilities and the City of Colorado Springs Engineering Department. Ten cross sections established at designated points along Fountain Creek are monitored for degradation, aggradation, and other changes to the geomorphic surface. Each cross section is surveyed once per year during low stream flow; preferably in the winter when leaves and other organic material on the ground is at a minimum. Survey data from 2015 has been provided as pre-SDS operations baseline conditions along with survey data from the reporting period (2020) for comparative purposes. These data present topographic survey data, Light Detection and Ranging (LiDAR) survey data, and elevation rasters, collected or generated during 2020 as part of that monitoring effort. Topographic survey points were collected using real-time kinematic Global Navigation Satellite Systems (RTK-GNSS). These point data, along with LiDAR point clouds, were used to generate digital elevation maps (2020). These survey data and maps provide an annual assessment of the geomorphic changes at each study area.	Attachment 12 - Geomorphology Monitoring
	g. Status of adaptive management plans on Fountain Creek.	The Monitoring Plan and Integrated Adaptive Management Plan were submitted to the Bureau of Reclamation on March 18, 2011 and acknowledged by Reclamation on March 24, 2011. The Geomorphic Mitigation Plan was submitted to Reclamation on March 15, 2011 and approved on April 26, 2011. Colorado Springs Utilities participates in a Joint Funding Agreement with the USGS regarding implementation of the Monitoring Plan.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	h. Status of payments into the Fountain Creek monetary mitigation fund.	A check dated January 14, 2020 in the amount of \$10,706,513.00 payable to the Fountain Creek Watershed Water Activity Enterprise was delivered by Utilities to the Fountain Creek Watershed, Flood Control and Greenway District (FCWFCGD) Executive Director on January 15, 2020. The payment was made 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). As outlined in Resolution No. P&D 14-15 and the associated attachment, Utilities and Pueblo County staff met in April 2020 when the originally reported “Preliminary” November 2019 Producer Price Index (PPI) for Finished Goods (WPUFD49207) value of 206.6 was updated to a “Finalized” published value of 206.4 (0.2 points less than the original published “Preliminary” value). Based on the decrease in the index value, it was calculated that the Total Annual Payment Amount with Indexing for the 2020 payment to the FCWFCGD should have been \$10,696,183, which resulted in an overpayment and credit of \$10,330 to Colorado Springs Utilities. On April 29, 2020, the SDS Partners (Colorado Springs Utilities, City of Fountain, Security Water District, and Pueblo West Metropolitan District) unanimously agreed as part of the SDS Operating Committee’s quarterly meeting to allow the FCWFCGD’s Watershed Water Activity Enterprise to retain the \$10,330 overpayment in 2020 as an additional contribution to the District for use on a future project, program, or study within the Fountain Creek watershed as approved by Utilities on behalf of the SDS Partners.	No
	i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.	Summary data are in located in Attachment 7.	Attachment 7 - Expenditures for Wastewater System Improvements
	j. Reports on the operation of the Pueblo Flow Management Program and the Low Flow Program (rates, and quantities, and times of foregone exchanges, releases, and reception documentation).	A Memorandum of Understanding (MOU) was executed between the Pueblo Board of Water Works and Colorado Springs Utilities on April 17, 2009 that provides the terms and conditions under which each of the entities will contribute to and assist in the maintenance of a storage pool in Pueblo Reservoir. SDS entities complied with the terms of the Pueblo Flow Management Program. Colorado Springs Utilities exchanges were curtailed to meet the recreational flow targets during the months of October, November and December 2019 and August and September 2020. Pueblo West Metropolitan District exchanges were curtailed to meet the recreational flow targets during the month of September 2019. No other SDS entities were exchanging during this period. While exchanges were curtailed the flow in the Arkansas River below Pueblo Dam did not drop below 50 cfs and no releases were made by Colorado Springs Utilities or Board of Water Works Pueblo per the Low Flow Agreement.	Attachment 11

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	k. Status of lake level management cooperative efforts with other entities at Pueblo Reservoir.	Colorado Springs Utilities remains committed to participate in the development of a reservoir management plan for Pueblo Reservoir at such time as the Bureau of Reclamation and the Southeastern Colorado Water Conservancy District decide to proceed forward.	No
	l. Status of conservation and local reuse.	Colorado Springs Utilities, on behalf of the SDS Participants, remains committed to incorporating conservation and local reuse as important aspects of its water management plan. Colorado Springs Utilities prepared the 2015 Water Use Efficiency Plan which identifies and reports on conservation measures. Colorado Springs Utilities incorporated the 2015 Water Use Efficiency Plan into its updated Integrated Water Resources Plan. As part of this implementation, Colorado Springs Utilities recently modified its Water Shortage Ordinance to only allow outdoor watering three (3) days per week. In 2018, both the City of Fountain and the Security Water District updated their respective water conservation/efficiency plans. Pueblo West Metropolitan District implemented its Water Conservation Plan in 2013, which was also incorporated into its 2017 Water Master Plan.	No
	m. Payments to Pueblo County in lieu of property taxes.	The payment in-lieu of property tax for 2016 for the properties acquired in Pueblo County was made on April 25, 2016. The payment in-lieu of property tax for 2017 for the properties acquired in Pueblo County was made on April 13, 2017. The payment in-lieu of property tax for 2018 for the properties acquired in Pueblo County was made on April 23, 2018. The payment in-lieu of property tax for 2019 for the properties acquired in Pueblo County was made on April 25, 2019. The payment in-lieu of property tax for 2020 for the properties acquired in Pueblo County was made on April 23, 2020. As the properties were sold in 2019, the 2020 payment was the last payment required under this condition.	No
	n. Copies of the annual reports on the SDS Project submitted to Reclamation.	This report will satisfy the requirement for the annual report following delivery of water through the SDS pipeline.	No
CDPHE - 401 Water Quality Certification			
Certification Statement, Bullet 4, p. 6	All collected raw data and annual reports developed as a requirement of other agency conditions will be submitted to the Division at the same time they are submitted to the requiring regulatory agency. Data and reports will be submitted directly to the Environmental Data Unit in an electronic data format agreed to by the Division.	The SDS Permit Compliance Annual Report addresses the annual reporting requirements for all of the major programmatic permits. Pertinent raw data and reports are being submitted as part of this annual report, of which CDPHE is a recipient.	No
Fountain Creek WFCGD - Resolution 2010-01			

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Annual Implementation Progress Matrix

Reporting Requirements		CY2020 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Technical Advisory Committee Condition 2, p. 3 (Also Citizen Advisory Committee Condition 2)	<p>The Integrated Adaptive Management Plan (IAMP) shall be submitted to the District for review, and periodic reports on water quality and quantity shall be provided to the District.</p> <p>The Integrated Adaptive Management Plan (IAMP) will include how mitigation will be performed in case there are problems that were not anticipated during the project. This will include means and methods to address impacts from the project and specific triggers to initiate the process. Once the IAMP is finalized there will be an opportunity for comment.</p>	The IAMP has been completed and was submitted to the Bureau of Reclamation on March 18, 2011. The IAMP has been provided to the District.	No

Monthly Average Flow Data from USGS Gauge Station No. 07106500 Fountain Creek at Pueblo

The USGS provides data based on a water year (October through September).

ATTACHMENT 2

Monthly Average Flow Data
USGS Gauge Station No: 07106500
FOUNTAIN CREEK AT PUEBLO, CO
Pueblo County, Colorado
Hydrologic Unit Code 11020003
Latitude 38°17'16", Longitude 104°36'02" NAD27
Drainage area 925 square miles
Gage datum 4,705 feet above sea level NGVD29

00060, Discharge, cubic feet per second,														
YEAR	Monthly mean in cfs (Calculation Period: 2019-10-01 -> 2020-09-30) Period-of-record for statistical calculation restricted by user												Annual Average Flow	Long-Term Average Annual Simulated Streamflow
	2019			2020										
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Mean of Monthly Discharge	96	127	120	114	88	166	98	89	93	64	73	55	98	253

- Notes:
1. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis/monthly>) on December 1, 2020.
 2. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
 3. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.

Water Quality Monitoring Data

A Joint Funding Agreement was executed with the USGS to begin the water quality monitoring program in January 2011. Data are provisional until they go through the USGS quality assurance process. Cells shaded in blue represent data that exceed CDPHE Reg. 32 Water Quality standards for Middle Arkansas River Basin segment 3, Lower Arkansas River Basin segment 1a, and Fountain Creek Basin segments 1a, 2a, 2b, and 6.

Colorado Springs Utilities continues to use effluent monitoring data from its Water Resource Recovery Facilities (WRRFs) to demonstrate the plants are operating in accordance with the specifications and standards associated with permits for its WRRFs. The only permit limit exceedances for the reporting period were at the JD Phillips Water Resource Recovery Facility (JDPWRRF) for the 95th percentile and Running Annual Median of Total Phosphorus (TP) as follows:

Date reported	95th percentile of Total Phosphorus (limit is 2.5 mg/L)	Running Annual Median of Total Phosphorus (limit is 1.0 mg/L)
07/20/2020	4.27 mg/L	
08/20/2020	4.06 mg/L	
09/20/2020	4.13 mg/L	1.13 mg/L

In response to these exceedances, Colorado Springs Utilities has continued to work with the Colorado Department of Public Health and Environment and to seek solutions to improve total phosphorous removal.

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #1 FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO. USGS Site # 07103700	10-10-2019		609	15	10.3	8.1	266	4.2	6.1	< 0.02	460	2,400	0.13
	10-21-2019	B	--	11	--	--	283	3.3	--	--	240	> 2,400	--
	11-12-2019		612	14	11.5	8	303	0.1	39	< 0.02	55	1,700	0.12 r
	11-18-2019	B	--	15	--	--	268	7	--	--	310	2,000	--
	12-11-2019		611	16	11.5	8.2	283	0	8.6	< 0.02	45	1,000	0.14
	12-17-2019	B	--	16	--	--	331	0	--	--	110	520	--
	01-06-2020		611	16 S	11.6	8.2	301	0.1	12	< 0.02	26	600	0.15
	01-22-2020	B	--	12 S	--	--	305	1.5	--	--	60	490	--
	02-07-2020		605	20 S	11.6	8	292	0	3.6	< 0.02	75	440	0.17
	02-19-2020	B	--	12 S	--	--	307	0.6	--	--	33	170	--
	03-10-2020		611	17 S	11.1	8.1	297	2.5	4	< 0.02	340	690	0.16
	03-16-2020	B	--	18 S	--	--	296	4.2	--	--	77	240	--
	04-06-2020		604	13 S	9	8.1	292	9.6	43	< 0.02	56	370	0.15
	04-21-2020	B	--	13 S	--	--	310	5.9	--	--	56	370	--
	05-08-2020		614	10 S	10	7.8	352	6.6	90	0.03 n	110	> 2,400	0.16
	05-19-2020	B	--	11 S	--	--	323	11.7	--	--	870	2,400	--
	06-04-2020		610	10 S	8.5	8.2	344	12.2	14	0.02 @cn	1,700	> 2,400	0.13
	06-17-2020	B	--	7 S	--	--	373	14.4	--	--	910	6,100	--
	07-07-2020		610	6 S	7.6	8.2	423	16.3	4	< 0.02 @c	250	> 2,400	0.17 S
	07-14-2020	J	610	144 S	7.1	8.6	174	18.5	> 1000	--	17,000	> 24,000	0.51
	07-21-2020	B	--	7 S	--	--	355 S	16.1 S	--	--	530 S	6,900 S	--
	08-07-2020		610	18 S	8.2	7.7	251	14.1	--	< 0.02	1,100	7,300	0.15
	08-18-2020	B	--	9 S	--	--	318	16	--	--	960	11,000	--
	09-10-2020		615	10 S	9.9	8.2	291	6	4.7	< 0.02	410	> 2,400	0.1
	09-21-2020	B	--	7 S	--	--	248	12.8	--	--	290	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			6.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.6 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #2 MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO USGS Site # 07104905	10-08-2019		610	32	8.5	8.5	754	16	3.8	< 0.02	110	> 2,400	3.2
	10-21-2019	B	--	37	--	--	739	7.2	--	--	160	> 2,400	--
	11-05-2019		614	35	8.6	8.3	831	12.3	5	0.03 n	86	1,700	2.4 r
	11-18-2019	B	--	35	--	--	710	13	--	--	40	1,600	--
	12-10-2019		613	45	10.2	8.4	668	6.1	25	< 0.02	86	2,000	2
	12-17-2019	B	--	27	--	--	994	1.8	--	--	42	870	--
	01-08-2020		604	42 S	9.9	8.4	718	8	10	0.05 c	38	1,000	2.9
	01-22-2020	B	--	37 S	--	--	780	3.5	--	--	41	410	--
	02-03-2020		604	49 S	10.6	8.2	723	3	47	0.05	150	> 2,400	2.1
	02-19-2020	B	--	35 S	--	--	1890	3	--	--	65	390	--
	03-04-2020		611	50 S	8.9	8.5	919	10.7	120	0.21	490	> 2,400	1.1 d
	03-16-2020	B	--	49 S	--	--	847	9.1	--	--	49	980	--
	04-08-2020		612	30 S	7.9	8.7	711	17.7	11	< 0.04 d	16	440	2.6
	04-21-2020	B	--	35 S	--	--	759	12	--	--	42	330	--
	05-07-2020		609	32 S	8.9	8	699	10.2	13	0.14	310	> 2,400	2.3
	05-19-2020	B	--	30 S	--	--	808	18.1	--	--	370	> 2,400	--
	06-02-2020		614	39 S	7.7	--	690	17	21	0.03 @cn	240	> 2,400	2.2
	06-17-2020	B	--	14 S	--	--	750	18.8	--	--	190	4,400	--
	07-13-2020		612	10 S	7.2	8	651	18.4	3.7	0.03 @cn	980	> 2,400	2.4
	07-21-2020	B	--	31 S	--	--	721	20.2	--	--	230	6,100	--
	08-04-2020		614	51 S	7.5	8.1	730	20.9	16	< 0.02	710	> 24,000	2.2 d
	08-18-2020	B	--	24 S	--	--	707	20.7	--	--	490	7,700	--
	09-09-2020		619	32 S	9.5	8.2	633	8.4	17	< 0.02	> 2,400	> 2,400	2.7
	09-21-2020	B	--	13 S	--	--	649	16.8	--	--	150	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.6 (chronic)

- Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.
4. Sample on 05/07/2020 was taken at alternate sampling location (38°51'03"N and 104°49'43"W) to adhere to safe COVID-19 sampling protocol

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #3 FOUNTAIN CREEK AT COLORADO SPRINGS, CO USGS Site # 07105500	10-07-2019		619	31	9.3	8.1	701	9.7	2.2	< 0.02	160	> 2,400	2.8
	10-21-2019	B	--	40	--	--	677	7.1	--	--	91	1,700	--
	11-06-2019		616	41	10	8.1	788	6.2	4.7	< 0.02	110	2,000	2.6 r
	11-18-2019	B	--	50	--	--	659	11.3	--	--	96	> 2,400	--
	12-10-2019		614	56	10.3	8.2	665	5.2	20	< 0.02	120	2,000	2.4
	12-17-2019	B	--	34	--	--	944	0.5	--	--	29	730	--
	01-08-2020		605	55 S	9.8	8.2	684	6.7	11	0.03 c	34	1,400	2.7
	01-22-2020	B	--	46 S	--	--	686	3.1	--	--	93	370	--
	02-05-2020		610	28 S	11.5	7.9	1070	0.1	5.7	0.45	26	330	3.7 d
	02-19-2020	B	--	46 S	--	--	1540	2.7	--	--	26	260	--
	03-10-2020		616	64 S	10.2	8.3	694	6.7	12	0.08	40	980	2.1
	03-16-2020	B	--	69 S	--	--	785	8.8	--	--	38	1,000	--
	04-07-2020		612	57 S	8.3	8.4	686	14.9	130	< 0.02	57	650	2.5
	04-21-2020	B	--	52 S	--	--	682	11.6	--	--	73	390	--
	05-07-2020		611	49 S	9.2	8.1	689	9.3	18	0.05	130	1,700	2.5 d
	05-19-2020	B	--	38 S	--	--	736	17.7	--	--	200	> 2,400	--
	06-05-2020		617	34 S	7.5	7.7	685	18.2	12	0.04 @c	52	4,900	1.8
	06-17-2020	B	--	21 S	--	--	770	21	--	--	200	4,600	--
	07-13-2020		614	23 S	7.2	7.9	738	19.9	3.3	< 0.02 @c	1,700	> 2,400	2.7
	07-21-2020	B	--	38 S	--	--	724	22.8	--	--	220	20,000	--
	08-05-2020		617 S	24 S	7.3 S	7.8 S	696 S	17.3 S	3.3 S	< 0.02 S	630 S	20,000 S	2.5 dS
	08-18-2020	B	--	24 S	--	--	692	22.3	--	--	3,300	17,000	--
	09-09-2020		620	45 S	9.4	8.1	655	8	15	< 0.02	> 2,400	> 2,400	2.4 S
	09-21-2020	B	--	21 S	--	--	655	17.9	--	--	150	2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.
4. Sample on 05/07/2020 was taken at alternate sampling location (38 48'45"N 104 48'37"W) to adhere to safe COVID-19 sampling protocol

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #4 FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO USGS Site # 07105530	10-07-2019		620	81	8.4	8.1	676	17.9	3.5	0.05	290	> 2,400	2.2
	10-21-2019	B	--	96	--	--	676	14.2	--	--	2,000	> 2,400	--
	11-06-2019		618	104	9.3	8.1	764	13.8	3.4	0.04	150	> 2,400	2.3 r
	11-18-2019	B	--	104	--	--	711	14.2	--	--	130	> 2,400	--
	12-10-2019		616	108	9.8	8.1	746	9.8	11	0.04 n	180	> 2,400	2.9
	12-17-2019	B	--	79	--	--	962	9.6	--	--	240	2,400	--
	01-08-2020		606	101 S	9.6	8.1	735	10.2	6.2	0.06 c	200	1,700	3
	01-22-2020	B	--	64 S	--	--	760	7.3	--	--	62	770	--
	02-05-2020		611 S	60 S	10.8 S	8.1 S	975 S	7.4 S	4.7 S	0.19 S	68 S	2,000 S	3.2 dS
	02-19-2020	B	--	59 S	--	--	1460	6.9	--	--	39	730	--
	03-10-2020		617	118 S	9.5	8.2	717	12	9.6	0.04 n	42	2,000	2.3
	03-16-2020	B	--	130 S	--	--	785	12.4	--	--	100	1,700	--
	04-07-2020		613	92 S	9	8.5	729	17.7	62	< 0.04 d	56	920	2.6
	04-21-2020	B	--	71 S	--	--	754	14.7	--	--	50	870	--
	05-05-2020		621	68 S	9	8	734	14.5	16	0.04	55	1,400	2.2 d
	05-19-2020	B	--	61 S	--	--	784	19.6	--	--	240	2,400	--
	06-02-2020		619	104 S	7.7	7.6	708	17.3	52	0.05 @c	550	> 2,400	2.2
	06-17-2020	B	--	78 S	--	--	734	21.8	--	--	170	9,800	--
	07-04-2020	J	619	843 S	7.1	6.9	417	20.2	280	--	16,000	> 24,000	3.1
	07-14-2020		616	52 S	7.4	7.9	763	19.7	2.6	0.04 @c	490	2,400	2.6
	07-21-2020	B	--	68 S	--	--	720	22.2	--	--	280	14,000	--
	08-05-2020		618 S	68 S	7.5 S	7.7 S	728 S	19.9 S	4.5 S	0.02 nS	890 S	17,000 S	1.9 dS
	08-18-2020	B	--	60 S	--	--	665	23.9	--	--	2,000	14,000	--
	09-09-2020		623	97 S	8.5	7.9	681	13.5	19	0.05	> 2,400	> 2,400	2.4
	09-21-2020	B	--	71 S	--	--	652	21.8	--	--	340	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #5 FOUNTAIN CREEK AT SECURITY, CO USGS Site # 07105800	10-16-2019		623	69	9.5	8.4	765	11.1	5.6	0.4	130	> 2,400	3.1
	10-21-2019	B	--	99	--	--	760	12	--	--	86	> 2,400	--
	11-06-2019		621	113	8.8	8.3	851	12.9	15	0.37	73	2,000	2.9 dr
	11-18-2019	B	--	135	--	--	741	13	--	--	86	> 2,400	--
	12-11-2019		620	76	10.1	8.4	816	7.8	10	0.5	42	2,400	3.2
	12-17-2019	B	--	71	--	--	1040	6	--	--	57	1,200	--
	01-06-2020		623	78 S	10.3	8.5	778	7.1	9.2	0.57	30	1,600	3.1 d
	01-22-2020	B	--	52 S	--	--	823	5.7	--	--	100	550	--
	02-05-2020		614	22 S	10.8	8.4	1060	5.4	6	1.27	19	390	3.9 d
	02-19-2020	B	--	44 S	--	--	1810	5.6	--	--	26	440	--
	03-10-2020		621	119 S	9.3	8.6	787	12.4	23	0.31	31	770	3
	03-16-2020	B	--	105 S	--	--	871	13.4	--	--	8	440	--
	04-06-2020		614	99 S	8.2	9	796	18.7	13	0.44	7	440	2.8 d
	04-21-2020	B	--	62 S	--	--	817	16.6	--	--	12	460	--
	05-05-2020		626	54 S	9.2	7.9	802	11.8	18	--	42	1,200	2.7 d
	05-18-2020	B	--	50 S	--	--	859	25.2	--	--	71	> 2,400	--
	05-29-2020		623	83 S	7	8.3	801	22.8	18	0.42 @c	--	--	2.9
	06-05-2020		622	86 S	7.9	8.1	779	15.7	35	0.29 @c	170	12,000	2.6
	06-17-2020	B	--	50 S	--	--	827	23.9	--	--	52	1,500	--
	07-14-2020		620	48 S	7.5	7.9	778	18.5	6.7	0.13 @c	230	> 2,400	2.6
	07-21-2020	B	--	48 S	--	--	820	24.8	--	--	41	4,100	--
	08-05-2020		623	71 S	7.2	7.7	732	17.9	13	0.16	820	20,000	2.1 d
	08-18-2020	B	--	67 S	--	--	771	26.7	--	--	85	9,200	--
	09-10-2020		627	98 S	9.1	8.3	778	10.2	15	0.3	2,000	> 2,400	3.3
	09-21-2020	B	--	63 S	--	--	793	22.9	--	--	67	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.

3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #6 FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO USGS Site # 383854104413601	10-02-2019		624	81	8.7	8.3	798	14.7	6.1	< 0.02	170	2,400	2.8
	10-21-2019	B	--	98	--	--	823	13.7	--	--	29	1,400	--
	11-07-2019		633	110	10	8.2	908	6.5	13	0.04	74	> 2,400	2.8 dr
	11-19-2019	B	--	113	--	--	842	9.2	--	--	140	2,000	--
	12-09-2019		622	108	9.8	8.2	878	6.8	12	0.9	30	1,700	3.3
	12-17-2019	B	--	80	--	--	1050	5.6	--	--	30	730	--
	01-09-2020		619	98 S	11.1	8.4	856	4.5	11	0.13	26	580	3.2 d
	01-22-2020	B	--	72 S	--	--	920	7.7	--	--	63	370	--
	02-10-2020		624	83 S	11.3	8.2	1340	3.3	14	0.36	34	580	3.5 d
	02-19-2020	B	--	79 S	--	--	1820	6.9	--	--	17	310	--
	03-09-2020		625	136 S	9.7	8.3	843	7.8	26	0.08	140	730	3 d
	03-17-2020	B	--	130 S	--	--	917	6.9	--	--	63	870	--
	04-09-2020		627	86 S	9.9	8.1	856	8.7	19	0.03 n	31	520	2.8 d
	04-21-2020	B	--	92 S	--	--	916	18.9	--	--	10	210	--
	05-05-2020		627	61 S	8.6	8.7	888	21.4	10	0.06	6	520	3.2 d
	05-19-2020	B	--	65 S	--	--	928	23.4	--	--	42	> 2,400	--
	06-02-2020		626	102 S	7.2	8.2	863	20.6	75	0.09 @c	1,600	> 2,400	2.8
	06-23-2020	B	--	78 S	--	--	868	23.5	--	--	100	> 2,400	--
	07-08-2020		623	89 S	7.1	8.2	812	23	17	< 0.02 @c	370	24,000	2.7 dS
	07-23-2020	B	--	65 S	--	--	810	21.4	--	--	2,200	> 24,000	--
	08-10-2020		627	59 S	7.2	8.5	835	25.1	44	< 0.02	97	14,000	2.7 d
	08-20-2020	B	--	123 S	--	--	719	21.1	--	--	14,000	> 24,000	--
	09-11-2020		625	96 S	8.6	8.6	791	17.3	15	< 0.02	120	> 2,400	2.6 d
	09-24-2020	B	--	64 S	--	--	699	16.3	--	--	110	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #7 FOUNTAIN CREEK NEAR FOUNTAIN, CO. USGS Site # 07106000	10-02-2019		627	75	8.1	8.2	934	17.3	7.4	< 0.02	91	> 2,400	3.5
	10-21-2019	B	--	101	--	--	922	13.5	--	--	61	2,000	--
	11-07-2019		634	124	9.7	8.2	962	7.1	14	< 0.02	43	2,000	3.6 r
	11-19-2019	B	--	108	--	--	893	10.2	--	--	32	1,700	--
	12-09-2019		624	106	9.6	8.2	922	7	13	0.72	19	1,600	3.4 d
	12-17-2019	B	--	84	--	--	1080	5.1	--	--	16	770	--
	01-09-2020		620	128 S	10.3	8.3	895	5.7	15	0.05	12	580	3.4 d
	01-22-2020	B	--	80 S	--	--	969	7.9	--	--	5	280	--
	02-10-2020		627	115 S	10.5	8.2	1380	4.6	15	0.2	6	310	3.8 d
	02-19-2020	B	--	75 S	--	--	1910	6.8	--	--	10	190	--
	03-09-2020		628	138 S	9.2	8.3	882	10.3	30	< 0.02	68	730	3.3
	03-17-2020	B	--	164 S	--	--	944	7	--	--	26	820	--
	04-07-2020		623	80 S	7.6	8.7	954	18.9	8.1	< 0.02	23	260	3.5 d
	04-21-2020	B	--	81 S	--	--	997	19.8	--	--	2	190	--
	05-05-2020		629	63 S	7.1	8.4	973	22.7	8.1	< 0.02	6	730	3.5 d
	05-19-2020	B	--	71 S	--	--	1020	24.6	--	--	13	550	--
	06-05-2020		628	98 S	7.4	8	888	18.2	22	< 0.02 @c	160	8,200	3.1
	06-17-2020	B	--	83 S	--	--	960	24.2	--	--	10	2,000	--
	07-08-2020		624	89 S	6.4	8.1	883	25.8	14	< 0.02 @c	160	6,000	3
	07-21-2020	B	--	42 S	--	--	982	28.3	--	--	20	3,000	--
	08-07-2020		627	98 S	7.4	7.8	810	18.3	18	< 0.02	610	24,000	3 d
	08-18-2020	B	--	92 S	--	--	891	27.7	--	--	110	13,000	--
	09-11-2020		626	95 S	7.5	8.3	802	19.9	32	< 0.02	110	> 2,400	2.9 dS
	09-21-2020	B	--	24 S	--	--	931	23.5	--	--	18	1,600	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
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Legend	
Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #8 FOUNTAIN CREEK NEAR PINON, CO USGS Site # 07106300	10-02-2019		634	47	7.6	8.3	1040	20.6	52	< 0.02	260	> 2,400	3.8 d
	10-22-2019	B	--	110	--	--	1000	6.4	--	--	180	> 2,400	--
	11-12-2019		637	123	10.3	8.2	989	6.5	50	0.1	44	> 2,400	3.7 r
	11-19-2019	B	--	112	--	--	1000	10.7	--	--	26	2,400	--
	12-05-2019		632	118	10.5	8.2	1060	4.3	47	< 0.02	120	> 2,400	3.7 d
	12-18-2019	B	--	109	--	--	1130	0.4	--	--	43	1,400	--
	01-09-2020		628	110 S	10.3	8.2	988	5.2	45	0.05	9	1,200	4.1 d
	01-23-2020	B	--	92 S	--	--	1070	2.9	--	--	18	410	--
	02-10-2020		635	106 S	10.6	8.3	1410	4.5	57	0.14	15	1,100	4.4 d
	02-20-2020	B	--	90 S	--	--	1380	4.4	--	--	2	410	--
	03-09-2020		635	138 S	9	8.4	1010	12.3	76	< 0.02	41	650	3.8 d
	03-17-2020	B	--	131 S	--	--	1050	7.6	--	--	20	820	--
	04-09-2020		637	74 S	9.1	8.2	1060	11.2	32	< 0.02	22	390	3.8 d
	04-22-2020	B	--	66 S	--	--	1110	12.9	--	--	96	920	--
	05-08-2020		641	29 S	8.1	8.5	1130	19.7	28	< 0.02	32	610	4.5 d
	05-20-2020	B	--	34 S	--	--	1170	17.6	--	--	170	2,000	--
	06-05-2020		635	65 S	6.9	8.2	1030	24.1	68	< 0.02 @c	75	7,300	3.5 d
	06-23-2020	B	--	42 S	--	--	1080	28.6	--	--	130	> 2,400	--
	07-17-2020		636	170 S	7.5	8	853	17.9	85	< 0.02 @c	990	> 24,000	2.9
	07-23-2020	B	--	47 S	--	--	1020	24.3	--	--	470	20,000	--
	08-10-2020		637	26 S	6.9	8.4	1040	24.1	72	< 0.02	280	13,000	3.2 d
	08-20-2020	B	--	60 S	--	--	1050	25	--	--	3,400	> 24,000	--
	09-10-2020		640	105 S	8.3	8.3	967	14.7	160	< 0.02	1,400	> 2,400	3.2 dS
	09-24-2020	B	--	41 S	--	--	1000	21.1	--	--	260	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #9 FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO USGS Site # 381840104361001	10-07-2019		644	48	8.6	8.5	1150	18.3	31	< 0.02	59	> 2,400	5.3 d
	10-22-2019	B	--	111	--	--	1100	9.5	--	--	490	> 2,400	--
	11-12-2019		642	140	10	8.3	1060	8.2	62	0.03 n	33	> 2,400	4.8 dr
	11-19-2019	B	--	144	--	--	1070	10.8	--	--	36	> 2,400	--
	12-05-2019		638	142	10.5	8.3	1120	5.5	65	< 0.02	34	> 2,400	4.5 d
	12-18-2019	B	--	116	--	--	1090	1.8	--	--	6	1,300	--
	01-10-2020		639	113 S	11.9	8.2	1080	0	32	< 0.02	11	550	5.2 d
	01-23-2020	B	--	107 S	--	--	1120	4.9	--	--	1	330	--
	02-10-2020		641	121 S	10.6	8.3	1410	5.2	52	0.03 n	4	610	5.8 d
	02-20-2020	B	--	106 S	--	--	1340	6.3	--	--	< 1	260	--
	03-06-2020		646	146 S	10.3	8.5	1150	7.4	100	< 0.02	16	1,100	5.1 d
	03-17-2020	B	--	158 S	--	--	1110	8.7	--	--	34	770	--
	04-08-2020		642	93 S	9.7	8.1	1130	10.8	55	< 0.02	4	190	5.1 d
	04-22-2020	B	--	81 S	--	--	1180	15.8	--	--	10	240	--
	05-06-2020		644	56 S	7.9	8.6	1190	22.9	12	< 0.02	15	220	6.7 d
	05-20-2020	B	--	42 S	--	--	1240	20.8	--	--	31	1,200	--
	06-03-2020		642	115 S	7.1	8.4	1060	23.4	140	< 0.02 @c	280	14,000	4.7 d
	06-23-2020	B	--	47 S	--	--	1180	28.2	--	--	40	> 2,400	--
	07-17-2020		643	250 S	7.6	7.9	838	18.3	150	< 0.02 @c	1,100	> 24,000	3.8
	07-23-2020	B	--	44 S	--	--	1150	27.6	--	--	130	3,300	--
	08-04-2020		642	47 S	7.1	8.4	1140	24.6	64	< 0.02	200	16,000	5.4 d
	08-19-2020	B	--	32 S	--	--	1160	26.9	--	--	62	7,700	--
	09-10-2020		647	103 S	8.9	8.3	1040	12.5	280	< 0.02	> 2,400	> 2,400	4.4 d
	09-23-2020	B	--	33 S	--	--	1100	20.4	--	--	68	2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		4.8 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #10 FOUNTAIN CREEK AT PUEBLO, CO. USGS Site # 07106500	10-01-2019		638	26	8.1	8.5	1230	20.5	21	< 0.02	47	2,000	11.4 d
	10-22-2019	B	--	125	--	--	1150	10.8	--	--	290	> 2,400	--
	11-06-2019		642	149	9	8.3	1130	12.1	77	< 0.02	41	2,400	7.3 dr
	11-21-2019	B	--	95	--	--	1120	5.3	--	--	43	2,000	--
	12-09-2019		640	149	10.2	8.4	1100	6.8	72	< 0.02	20	> 2,400	7.2 d
	12-18-2019	B	--	125	--	--	1160	2.5	--	--	11	1,700	--
	01-10-2020		641	110 S	12	8.3	1100	0.5	43	< 0.02	10	690	7.9 d
	01-23-2020	B	--	107 S	--	--	1120	5.9	--	--	2	260	--
	02-04-2020		640	102 S	11.9	8.2	1160	1	34	< 0.02	5	280	8.4 d
	02-18-2020	B	--	81 S	--	--	1240	4.3	--	--	4	290	--
	03-06-2020		648	153 S	10.8	8.5	1180	5.5	100	< 0.02	13	870	7 d
	03-16-2020	B	--	182 S	--	--	1130	13.2	--	--	8	1,200	--
	04-07-2020		644	112 S	9	8.1	1130	14.5	51	< 0.02	2	150	7.1 d
	04-22-2020	B	--	84 S	--	--	1220	16.9	--	--	3	290	--
	05-07-2020		639	35 S	8.7	8.5	1260	16.9	7.4	< 0.02	19	210	11 d
	05-18-2020	B	--	64 S	--	--	1240	27.4	--	--	64	2,400	--
	06-05-2020		641	89 S	6.7	8.2	1160	26.7	71	< 0.02 @c	120	2,800	8 d
	06-18-2020	B	--	38 S	--	--	1200	18	--	--	31	1,300	--
	07-01-2020		642	42 S	6.7	8.5	1180	27.1	24	< 0.02	46	1,600	8.9 d
	07-22-2020	B	--	14 S	--	--	1330	27.3	--	--	62	1,900	--
	08-10-2020		643	17 S	7.7	8	1220	17.4	5.8	< 0.02	140	6,900	12.2 dS
	08-17-2020	B	--	26 S	--	--	1300	29.4	--	--	63	4,600	--
	09-09-2020		648	34 S	9.5	8.4	1180	10.2	56	< 0.02	160	> 2,400	10.2 dS
	09-22-2020	B	--	51 S	--	--	1170	21	--	--	81	1,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		28.1 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

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3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #11 FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO USGS Site # 381601104355801	10-01-2019		640	40	7.9	8.4	1290	19.1	20	< 0.02	47	> 2,400	12.6 d
	10-22-2019	B	--	117	--	--	1160	13.2	--	--	390	> 2,400	--
	11-13-2019		641	122	9.9	8.3	1130	8.4	47	0.02 n	19	2,400	7.7 dr
	11-19-2019	B	--	122	--	--	1120	10.2	--	--	43	2,400	--
	12-05-2019		640	153	10.2	8.3	1160	6.8	68	< 0.02	17	> 2,400	6.9 d
	12-18-2019	B	--	118	--	--	1160	3.7	--	--	8	2,000	--
	01-07-2020		646	127 S	11	8.3	1110	4.8	48	0.03 n	4	730	8 d
	01-23-2020	B	--	111 S	--	--	1130	7.3	--	--	3	220	--
	02-05-2020		637	92 S	11.3	8.3	1140	2.6	48	< 0.02	2	260	8.9 d
	02-20-2020	B	--	111 S	--	--	1390	7.5	--	--	3	150	--
	03-06-2020		649	155 S	11.2	8.5	1210	3.2	95	< 0.02	19	690	7.5 d
	03-17-2020	B	--	159 S	--	--	1150	9	--	--	30	1,300	--
	04-08-2020		642	91 S	10.2	7.9	1190	7.1	51	0.05	23	610	7.7 d
	04-22-2020	B	--	73 S	--	--	1260	17	--	--	20	410	--
	05-06-2020		647	44 S	8	8.5	1300	20.7	8.3	< 0.02	30	380	11.8 d
	05-20-2020	B	--	46 S	--	--	1340	24.9	--	--	38	> 2,400	--
	06-03-2020		644	115 S	7.5	8.4	1130	19.6	150	< 0.02 @c	200	11,000	7.3 d
	06-23-2020	B	--	51 S	--	--	1280	28.4	--	--	100	> 2,400	--
	07-07-2020		643	106 S	7.3	8.2	1050	20.5	75	< 0.02 @c	340	16,000	7.6 d
	07-23-2020	B	--	46 S	--	--	1280	30.5	--	--	130	3,300	--
	08-04-2020		642	46 S	7.1	8.3	1240	22.5	100	< 0.02	320	24,000	10.5 d
	08-19-2020	B	--	34 S	--	--	1300 S	23 S	--	--	51 S	6,100 S	--
	09-09-2020		648	36 S	8.8	8.4	1220	13.1	48	< 0.02	460	> 2,400	11 d
	09-23-2020	B	--	41 S	--	--	1160	17.1	--	--	140	2,000	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		28.1 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.

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Legend	
Description	Qualifier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #12 ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO USGS Site # 07099970	10-01-2019		641	201	8.7	8.3	413	18	3.4	< 0.02	55	> 2,400	9.1
	10-22-2019	B	--	174	--	--	479	13.5	--	--	20	920	--
	11-13-2019		642	348	10.8	8.5	442	8.8	3.1	< 0.02	31	390	9 r
	11-21-2019	B	--	100	--	--	635	7.5	--	--	99	980	--
	12-06-2019		649	97	12.4	8.7	611	6.6	1.5	< 0.02	26	260	19.4 d
	12-18-2019	B	--	100	--	--	617	3.8	--	--	23	190	--
	01-07-2020		648	94 S	12.6	8.6	627	3.5	2	< 0.02	4	170	20.7 d
	01-23-2020	B	--	104 S	--	--	619	4.8	--	--	< 1	83	--
	02-06-2020		635	104 S	12.4	8.4	605	1.2	1.2	0.02 n	36	230	20.4 d
	02-18-2020	B	--	85 S	--	--	631	3.9	--	--	20	220	--
	03-03-2020		640	104 S	12.2	9	615	5.8	1.6	< 0.02	10	200	21.9 d
	03-17-2020	B	--	365 S	--	--	436	5.9	--	--	3	170	--
	04-09-2020		645	408 S	12.5	8.8	420	8	1.4	< 0.02	2	100	7.7
	04-22-2020	B	--	430 S	--	--	429	10.6	--	--	11	650	--
	05-07-2020		638	591 S	10.9	9.1	407	12.1	1.3	< 0.02	6	250	6.7
	05-20-2020	B	--	699 S	--	--	438	12.2	--	--	200	> 2,400	--
	06-04-2020		641	2980 S	9.8	8.3	408	11.8	6.4	0.1 @c	280	> 2,400	5.3
	06-18-2020	B	--	1450 S	--	--	411	12.9	--	--	41	6,900	--
	07-01-2020		644	984 S	9.1	8.3	354	16.2	6.6	< 0.02	19	> 2,400	4.7
	07-22-2020	B	--	699 S	--	--	354	19.7	--	--	430	4,800	--
	08-10-2020		644	269 S	9	8.1	412	17.7	2.2	< 0.02	180	4,600	7.9
	08-17-2020	B	--	353 S	--	--	361	22	--	--	41	3,100	--
	09-08-2020		646	84 S	8.9	8.6	545	15.4	0.2	0.04	120	> 2,400	13.8 d
	09-22-2020	B	--	86 S	--	--	533	21.4	--	--	9	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See note 2			5.0 (minimum)	6.5-9.0		April-Oct.=24.3 Nov.-March=13.0		See Note 1	126		17.1 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
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no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Location	Date	Sample Note	Barometric pressure (mmHg)	Flow (cfs)	Dissolved oxygen (mg/L)	pH	Specific conductance (µS/cm at 25°C)	Temperature (°C)	Turbidity (FNU)	Total Ammonia (mg/L as N)	Escherichia coli (#/100 mL)	Total coliform (#/100 mL)	Selenium (µg/L)
SP #13 ARKANSAS RIVER NEAR AVONDALE, CO. USGS Site # 7109500	10-15-2018		655	231	10.4	8.3	988	7.5	36	< 0.02	100	> 2,400	8.8
	10-22-2018	B	--	251	--	--	942	15.6	--	--	65	2,400	--
	11-06-2018		642	411	9.7	8.3	864	10.5	57	< 0.02	93	> 2,400	9.3 r
	11-20-2018	B	--	243	--	--	1,080	8.1	--	--	11	2,000	--
	12-04-2018		648	247	12	8.3	1,050	4.2	33	< 0.02	13	1,300	11.8 d
	12-18-2018	B	--	251	--	--	1,020	7.8	--	--	6	1,200	--
	01-29-2019		643	279 S	11.9	8.3	1,060	3.4	43	0.03 n	21	690	12.7 d
	01-31-2019	B	--	259 S	--	--	811	3.5	--	--	6	610	--
	02-08-2019		647	224 S	11.7	8.5	1,060	4.5	28	0.03 n	5	340	14.4 dS
	02-12-2019	B	--	240 S	--	--	1,090	3.2	--	--	17	520	--
	03-12-2019		641	243 S	9.9	8.4	1,080	9.1	36	0.1	31	580	10 d
	03-18-2019	B	--	532 S	--	--	975	9.7	--	--	16	1,300	--
	04-02-2019		646	768 S	9.9	8.4	764	8.7	48	< 0.02	31	1,400	9.2
	04-16-2019	B	--	526 S	--	--	850	15.1	--	--	20	2,000	--
	05-03-2019		644	1,040 S	8.7	8.2	637	15.5	66	< 0.02	21	2,000	7.8
	05-30-2019	B	--	354 S	--	--	816	20.3	--	--	41	> 2,400	--
	06-05-2019		647	1,540 S	8.7	8.3	585	12	67	0.03 n	120	5,800	5.9
	06-19-2019	B	--	3,890 S	--	--	457	14.9	--	--	730	11,000	--
	07-11-2019		649	2,290 S	7.9	8	337	18.4	29	< 0.02	74	2,500	5.8
	07-15-2019	B	--	2,310 S	--	--	337	21.2	--	--	20	9,200	--
	08-07-2019		644	1,220 S	7.2	8.2	416	22.3	40	< 0.02	170	> 24,000	7.7 d
	08-21-2019	B	--	1,030 S	--	--	440	21.3	--	--	72	2,400	--
	09-05-2019		648	789 S	7.4	8.2	462	23.7	19	< 0.02 @c	67	> 2,400	9.2 d
	09-18-2019	B	--	511 S	--	--	586	22	--	--	50	> 2,400	--
Standards from WQCC Regulation No. 32, Appendix 32-1 (if applicable)		See Note 2			5.0 (minimum)	6.5-9.0		Jan.-Nov.=24.3 Dec.=21.5		See Note 1	126		14.1 (chronic)

Notes: 1. Standards for ammonia include calculations to be performed monthly and are not included as the small amount of data would yield inaccurate standards.
2. Samples with a note of B are bi-weekly bacteria samples, and those with a note of J are storm event samples, and are provided as additional data for informational purposes.
3. Data in the above table were queried from the USGS National Water Information System database (<https://waterdata.usgs.gov/nwis>) on January 25, 2021.

Legend	
Description	Qualfier
no data for that parameter for that sample event	--
less than	<
greater than	>
estimated	E
holding time exceeded	@
see USGS result comment in NWIS	c
sample was diluted	d
below the reporting level but at or above the detection level	n
value verified by rerun, same method	r
value will likely be estimated when record is approved	#
data is preliminary and subject to change based on USGS QA/QC	S

Complaint Log

Complaint logs are only recorded during construction, so no attachment is included. This activity will resume during Phase II construction.

Emergency Response Log

Emergency response logs are only recorded during construction, so no attachment is included. This activity will resume during Phase II construction.

Log of Work Occurring During Non-Typical Work Hours

Non-typical work hours are only recorded during construction, so no attachment is included. This activity will resume during Phase II construction.

Expenditures for Wastewater System Improvements

Pueblo County 1041 Permit

Expenditures for Wastewater System Improvements

Annual Progress Report

January 21, 2021

Reporting for the period between January 1, 2020 and December 31, 2020

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APPENDIX A – 2020 LCERP ACTIVITY TABLE

APPENDIX B – 2020 COLLECTION SYSTEM R&R ACTIVITY TABLE

APPENDIX C – 2020 SSCC PROGRAM ACTIVITY TABLE

Introduction

On March 18, 2009 the Pueblo Board of County Commissioners passed Resolution No. P&D 09-22, approving 1041 Permit No. 2008-002 with terms and conditions for construction of the Southern Delivery System (SDS) water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that Colorado Springs Utilities provide an annual report to the Pueblo County Board of Commissioners on or before January 31 of each year reporting the Wastewater System Improvement expenditures from January 1 through December 31 of the prior year. Condition No.7 of the permit states:

Expenditures for Wastewater System Improvements

In order to continue its efforts to protect against future spills to Fountain Creek, to increase its opportunities for reuse, and to mitigate possible water quality impacts by the SDS Project to Fountain Creek, Colorado Springs Utilities shall commit to invest an additional seventy-five million dollars (\$75,000,000) in its wastewater system. Expenditures will be made as part of the wastewater collection system rehabilitation programs or wastewater reuse systems between January 1, 2009 and December 31, 2024 as required. These expenditures shall be for projects not currently required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulations existing as of January 30, 2009. These expenditures will include the Local Collector Evaluation and Rehabilitation Program (LCERP) for the improvement and fortification of wastewater lines which could adversely affect Fountain Creek or its tributaries. These expenditures are subject to annual appropriation by the Colorado Springs City Council. Beginning in 2010, by January 31 of each year, Colorado Springs Utilities shall provide an annual report to Pueblo County describing such expenditures for the prior year.

The Wastewater Collection System Rehabilitation Programs are comprehensive programs that systematically inspect, evaluate, prioritize, and rehabilitate the entire Colorado Springs Utilities collection system. In 2020 the projects that met the terms of Condition No. 7 included: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2) the Collection System Rehabilitation and Replacement Project (R&R); and 3) the Sanitary Sewer Creek Crossing (SSCC) Program. These projects are independent of Colorado Springs Utilities' normal operation and maintenance programs.

Project Descriptions

Local Collectors Evaluation and Rehabilitation Project (LCERP)

LCERP consists of the systematic evaluation and rehabilitation of sanitary sewer collection pipes less than 10-inches in diameter.

LCERP:

- Determines the condition of all the sanitary sewer pipe segments less than 10-inches in diameter and places them by priority on a schedule to be re-inspected, rehabilitated, repaired and/or replaced.
- Reduces the risk of Sanitary Sewer Overflows (SSOs)
- Is part of the overall long-term investments in our wastewater system.

In 2020, LCERP repaired or rehabilitated approximately 54,451 feet of less than 10-inch sewer pipe, representing approximately 217 line segments, at a cost of \$2,004,614.

Collection System Rehabilitation and Replacement Project (R&R)

The Sanitary Sewer Evaluation and Rehabilitation Program (SSERP) was completed on December 31, 2012, meeting all the requirements of the CDPHE Compliance Order on Consent (COC). Closure of the COC was requested on January 29, 2013 and granted by CDPHE on March 8, 2013. The successor Collection System Replacement and Rehabilitation Program (R&R) contracts were also put into place in 2009 to continue the rehabilitation and replacement of the pipes identified and is described below.

The R&R program rehabilitates or replaces large diameter (10-inch and greater) sanitary sewer pipe that were installed after January 1, 1994.

R&R:

- Is designed to facilitate operations, increase capacity, and upgrade the system
- Focuses on the reduction of sanitary sewer overflows and stoppages
- Reduces the risk of spills and protects the public health and environment.

In 2020, the R&R program repaired or rehabilitated approximately 12,028 feet of sanitary sewer pipe with diameters of 10 inches and greater, representing 43 individual line segments, at a cost of \$1,378,280.

Manhole Evaluation and Rehabilitation Project (MHERP)

MHERP has been developed as a comprehensive program to provide the rehabilitation of sanitary sewer manholes throughout the Springs Utilities wastewater collection system

MHERP:

- Is designed to reducing the risk of spills, stoppages, and SSOs
- Reduces infiltration and inflow at manholes throughout collection system.

In 2020, MHERP rehabilitated 1 manhole, at a cost of \$1,105. All other manhole related projects were conducted under normal operation and maintenance operations.

Wastewater Reuse System

The Colorado Springs Utilities Wastewater Reuse System consists of several pumping stations, storage reservoirs, holding ponds, transmission mains, and a tertiary treatment facility.

Wastewater Reuse Systems:

- Deliver tertiary-treated wastewater to parks, cemeteries, golf courses, and commercial properties for landscape irrigation
- Deliver tertiary-treated wastewater to Drake Power Plant for evaporative cooling
- Include supplies from raw surface water, groundwater, and reclaimed water.

Only normal operation and maintenance of the reuse system was conducted in 2020.

Sanitary Sewer Creek Crossing (SSCC) Program

Colorado Springs Utilities' Sanitary Sewer Creek Crossing (SSCC) Program implements capital projects that are explicitly targeted to protect waterways near wastewater facilities which are in danger of failing due to stormwater related events or other impacts. Specifically, the SSCC Program work consists of the systematic inspection, evaluation, the repair and/or replacement of sanitary sewer pipes and the erosion protection of various creek crossings structures in order to reduce the risk of spills, stoppages, and sanitary sewer overflows (SSOs) on pipelines that cross minor and major drainages.

The SSCC Program work is included in this report for 2020 because as of December 31, 2012, Colorado Springs Utilities had met all the requirements of the CDPHE Compliance Order on Consent (COC). Closure of the COC was requested on January 29, 2012 and granted by CDPHE on March 8, 2012. Therefore, at that point the SSCC Program was no longer *"required by other regulatory permits, agency enforcement or court orders, consent agreements, or governmental regulation"*. Furthermore, since Colorado Springs Utilities met their first 5-year (2016-2020), \$15 million dollar investment obligation to the City of Colorado Springs in 2019 associated with the City's Stormwater Control Program IGA with Pueblo County, the 2020 SSCC Program expenditures were not included in the 2020 Stormwater Control Program IGA expenditure reporting and were instead included as part of this SDS 1041 Permit Condition No. 7 wastewater improvements commitment. Between 2016 and 2019, the Colorado Springs Utilities SSCC Program invested a total of \$15,846,580 protecting stream channels and floodplains adjacent to Colorado Springs Utilities' wastewater infrastructure crossings.

SSCC Improvements:

- Provide long term creek stabilization for crossings and longitudinal banks
- Extend the life of the individual system component, and
- Improve the overall condition of the Colorado Springs Utilities' sanitary sewer system

In 2020, the SSCC Program conducted repair or rehabilitation related work associated with 15 creek crossings projects, at a cost of \$2,939,364.

Summary

During the reporting period of January 1, 2020 through December 31, 2020 costs for LCERP, System R&R, MHERP, and SSCC Program totaled \$6,323,363. The total Wastewater Expenditures reported since 2009 is \$74,479,146.

Appendix A

2020 LCERP ACTIVITY TABLE

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.149239	3480151	8	128	CIPP	BEAR CREEK	01/09/20
WW.145163	3480142	8	160	CIPP	BEAR CREEK	01/09/20
WW.146050	3480146	8	290	CIPP	BEAR CREEK	01/09/20
WW.164230	3480150	8	351	CIPP	GARDEN OF THE GODS	01/10/20
WW.160144	3480161	8	171	CIPP	GARDEN OF THE GODS	01/14/20
WW.145903	3480154	8	317	CIPP	GARDEN OF THE GODS	01/15/20
WW.151971	3480147	8	148	CIPP	GARDEN OF THE GODS	01/16/20
WW.151844	3480133	8	312	CIPP	LOWER SAND CREEK	01/16/20
WW.155217	3480172	8	393	CIPP	BEAR CREEK	01/17/20
WW.161962	3480128	8	244	CIPP	LOWER SAND CREEK	01/21/20
WW.141700	3480132	8	197	CIPP	LOWER SAND CREEK	01/21/20
WW.149243	3480157	8	301	CIPP	BEAR CREEK	01/23/20
WW.151218	3480156	8	259	CIPP	BEAR CREEK	01/23/20
WW.160297	3480158	8	115	CIPP	BEAR CREEK	01/24/20
WW.136132	3480116	6	141	CIPP	PATTY JEWETT	01/27/20
WW.150522	3480115	6	209	CIPP	PATTY JEWETT	01/27/20
WW.150517	3480107	6	178	CIPP	PATTY JEWETT	01/28/20
WW.146454	3480113	6	148	CIPP	PATTY JEWETT	01/28/20
WW.143677	3480696	8	406	CIPP	LOWER SAND CREEK	01/28/20
WW.141596	3480681	8	350	CIPP	LOWER SAND CREEK	01/29/20
WW.159346	3518436	8	309	CIPP	TEMPLETON GAP	01/29/20
WW.141597	3480682	8	282	CIPP	LOWER SAND CREEK	01/30/20
WW.154149	3480925	8	341	CIPP	LOWER SAND CREEK	01/30/20
WW.135063	3480275	8	437	CIPP	LOWER SAND CREEK	01/31/20
WW.147857	3480910	8	296	CIPP	LOWER SAND CREEK	02/05/20
WW.154503	3480112	6	175	CIPP	PATTY JEWETT	02/06/20
WW.147858	3480911	8	347	CIPP	LOWER SAND CREEK	02/06/20
WW.137525	3480671	8	313	CIPP	LOWER SAND CREEK	02/06/20
WW.153853	3480923	8	126	CIPP	LOWER SAND CREEK	02/06/20
WW.147159	3518456	8	300	CIPP	LOWER COTTONWOOD CREEK	02/06/20
WW.135133	3480667	8	139	CIPP	PATTY JEWETT	02/09/20
WW.151868	3480918	8	155	CIPP	LOWER SAND CREEK	02/09/20
WW.145803	3480907	8	29	CIPP	LOWER SAND CREEK	02/10/20
WW.157985	3480927	8	320	CIPP	LOWER SAND CREEK	02/11/20
WW.136133	3480117	6	411	CIPP	PATTY JEWETT	02/12/20
WW.139879	3480677	8	280	CIPP	LOWER SAND CREEK	02/12/20
WW.156588	3480110	6	412	CIPP	PATTY JEWETT	02/13/20
WW.151867	3480917	8	339	CIPP	LOWER SAND CREEK	02/13/20
WW.151866	3480916	8	124	CIPP	LOWER SAND CREEK	02/14/20
WW.135129	3480276	8	291	CIPP	LOWER SAND CREEK	02/19/20
WW.139377	3518484	8	108	CIPP	SPRING CREEK	02/19/20
WW.139376	3518485	8	120	CIPP	SPRING CREEK	02/19/20
WW.141633	3480683	8	292	CIPP	LOWER SAND CREEK	02/20/20
WW.149857	3480914	8	151	CIPP	LOWER SAND CREEK	02/20/20
WW.139535	3480675	8	142	CIPP	LOWER SAND CREEK	02/21/20
WW.151864	3480915	8	203	CIPP	LOWER SAND CREEK	02/21/20
WW.149146	3518455	8	252	CIPP	LOWER COTTONWOOD CREEK	02/22/20
WW.147860	3480912	8	405	CIPP	LOWER SAND CREEK	02/24/20
WW.133690	3518454	8	219	CIPP	LOWER COTTONWOOD CREEK	02/24/20

2020 LCERP ACTIVITY TABLE

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.160035	3480929	8	136	CIPP	LOWER SAND CREEK	02/25/20
WW.137521	3480669	8	281	CIPP	LOWER SAND CREEK	02/26/20
WW.153852	3480922	8	338	CIPP	LOWER SAND CREEK	02/27/20
WW.153851	3480921	8	296	CIPP	LOWER SAND CREEK	02/28/20
WW.153135	3518474	8	419	CIPP	LOWER COTTONWOOD CREEK	03/02/20
WW.135131	3480665	8	326	CIPP	UPPER SAND CREEK	03/03/20
WW.133645	3518472	8	405	CIPP	LOWER COTTONWOOD CREEK	03/03/20
WW.149145	3518457	8	280	CIPP	LOWER COTTONWOOD CREEK	03/06/20
WW.142957	3518470	8	252	CIPP	LOWER COTTONWOOD CREEK	03/10/20
WW.133652	3518467	8	252	CIPP	LOWER COTTONWOOD CREEK	03/10/20
WW.137791	3518464	8	134	CIPP	LOWER COTTONWOOD CREEK	03/11/20
WW.145093	3518463	8	397	CIPP	LOWER COTTONWOOD CREEK	03/11/20
WW.143710	3480697	8	147	CIPP	LOWER SAND CREEK	03/12/20
WW.145802	3480700	8	142	CIPP	LOWER SAND CREEK	03/12/20
WW.155153	3518459	8	348	CIPP	LOWER COTTONWOOD CREEK	03/12/20
WW.135130	3480278	8	345	CIPP	LOWER SAND CREEK	03/13/20
WW.162076	3480934	8	300	CIPP	LOWER SAND CREEK	03/16/20
WW.159292	3518471	8	62	CIPP	LOWER COTTONWOOD CREEK	03/16/20
WW.151870	3480919	8	399	CIPP	LOWER SAND CREEK	03/17/20
WW.135134	3480668	8	153	CIPP	LOWER SAND CREEK	03/17/20
WW.152183	3518441	8	311	CIPP	TEMPLETON GAP	03/18/20
WW.155127	3518477	8	350	CIPP	LOWER COTTONWOOD CREEK	03/23/20
WW.159344	3518442	8	362	CIPP	TEMPLETON GAP	03/24/20
WW.138842	3518458	8	115	CIPP	LOWER COTTONWOOD CREEK	03/25/20
WW.158007	3480928	8	331	CIPP	LOWER SAND CREEK	03/26/20
WW.160037	3480930	8	254	CIPP	LOWER SAND CREEK	03/26/20
WW.162077	3480935	8	410	CIPP	LOWER SAND CREEK	03/27/20
WW.162081	3480936	8	276	CIPP	LOWER SAND CREEK	03/27/20
WW.149591	3576351	8	261	CIPP	SHOOKS RUN	03/27/20
WW.136762	3518478	8	83	CIPP	LOWER COTTONWOOD CREEK	03/29/20
WW.159285	3518480	8	332	CIPP	LOWER COTTONWOOD CREEK	03/29/20
WW.134502	3576334	8	137	CIPP	DOWNTOWN	03/30/20
WW.134504	3576343	8	234	CIPP	DOWNTOWN	03/30/20
WW.134506	3576332	8	177	CIPP	DOWNTOWN	03/30/20
WW.145490	3576333	8	51	CIPP	DOWNTOWN	03/30/20
WW.166137	3573647	8	93	CIPP	SPRING CREEK	03/31/20
WW.171008	3576350	8	108	CIPP	DOWNTOWN	03/31/20
WW.171009	3576347	8	93	CIPP	DOWNTOWN	03/31/20
WW.134505	3576338	8	127	CIPP	DOWNTOWN	03/31/20
WW.159767	3576349	8	116	CIPP	SHOOKS RUN	03/31/20
WW.141330	3576348	8	22	CIPP	DOWNTOWN	03/31/20
WW.155904	3480926	8	328	CIPP	LOWER SAND CREEK	04/01/20
WW.160038	3480931	8	200	CIPP	LOWER SAND CREEK	04/01/20
WW.185205	3576344	8	228	CIPP	DOWNTOWN	04/01/20
WW.155593	3576335	8	71	CIPP	SHOOKS RUN	04/01/20
WW.153854	3480924	8	327	CIPP	LOWER SAND CREEK	04/02/20
WW.145778	3480699	8	304	CIPP	LOWER SAND CREEK	04/02/20
WW.141327	3576340	8	539	CIPP	DOWNTOWN	04/02/20
WW.164119	3480937	8	401	CIPP	LOWER SAND CREEK	04/03/20

2020 LCERP ACTIVITY TABLE

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.160039	3480933	8	176	CIPP	LOWER SAND CREEK	04/03/20
WW.141821	3575608	8	242	CIPP	DOWNTOWN	04/05/20
WW.149614	3480913	8	190	CIPP	LOWER SAND CREEK	04/06/20
WW.153999	3694976	8	192	CIPP	DOWNTOWN	04/06/20
WW.141668	3480695	8	251	CIPP	LOWER SAND CREEK	04/07/20
WW.139583	3480676	8	351	CIPP	LOWER SAND CREEK	04/07/20
WW.156079	3575612	8	217	CIPP	DOWNTOWN	04/07/20
WW.135497	3575611	8	234	CIPP	DOWNTOWN	04/07/20
WW.156081	3575609	8	52	CIPP	DOWNTOWN	04/07/20
WW.149245	3480134	8	400	CIPP	BEAR CREEK	04/08/20
WW.143866	3576342	8	100	CIPP	DOWNTOWN	04/08/20
WW.136929	3480098	6	432	CIPP	SOUTH TEJON	04/09/20
WW.150524	3480103	6	220	CIPP	MESA VALLEY	04/09/20
WW.160720	3480118	6	198	CIPP	PATTY JEWETT	04/09/20
WW.156065	3576341	8	77	CIPP	DOWNTOWN	04/09/20
WW.135500	3575607	8	244	CIPP	DOWNTOWN	04/09/20
WW.139243	3576345	8	32	CIPP	DOWNTOWN	04/09/20
WW.132393	3480111	6	107	CIPP	PATTY JEWETT	04/14/20
WW.159752	3480106	6	149	CIPP	PATTY JEWETT	04/14/20
WW.151572	3576346	8	496	CIPP	DOWNTOWN	04/14/20
WW.140906	3480101	6	180	CIPP	NORTH SUBURBAN	04/15/20
WW.149175	3480100	6	248	CIPP	NORTH SUBURBAN	04/15/20
WW.186049	3480938	8	148	CIPP	LOWER SAND CREEK	04/16/20
WW.146891	3480908	8	419	CIPP	LOWER SAND CREEK	04/16/20
WW.139284	3575588	8	442	CIPP	SHOOKS RUN	04/16/20
WW.155629	3575606	8	47	CIPP	DOWNTOWN	04/16/20
WW.143613	3694977	8	87	CIPP	LOWER SAND CREEK	04/16/20
WW.135496	3480091	6	67	CIPP	DOWNTOWN	04/17/20
WW.194244	3480939	8	180	CIPP	LOWER SAND CREEK	04/17/20
WW.145530	3575824	8	509	CIPP	DOWNTOWN	04/19/20
WW.139283	3575816	8	243	CIPP	SHOOKS RUN	04/20/20
WW.149630	3575591	8	101	CIPP	DOWNTOWN	04/20/20
WW.153165	3518448	8	236	CIPP	TEMPLETON GAP	04/21/20
WW.137249	3575592	8	82	CIPP	DOWNTOWN	04/22/20
WW.160717	3480104	6	251	CIPP	MESA VALLEY	04/23/20
WW.143520	3480087	6	430	CIPP	DOWNTOWN	04/23/20
WW.151208	3480173	8	196	CIPP	BEAR CREEK	04/23/20
WW.149629	3575590	8	122	CIPP	DOWNTOWN	04/23/20
WW.147622	3575594	8	73	CIPP	DOWNTOWN	04/26/20
WW.163851	3575595	8	27	CIPP	DOWNTOWN	04/26/20
WW.136897	3480124	8	497	CIPP	DOWNTOWN	04/27/20
WW.152145	3480122	8	205	CIPP	DOWNTOWN	04/27/20
WW.143494	3480097	6	291	CIPP	SHOOKS RUN	04/28/20
WW.159866	3575605	8	274	CIPP	DOWNTOWN	04/28/20
WW.155229	3480137	8	113	CIPP	BEAR CREEK	04/29/20
WW.139306	3575604	8	501	CIPP	DOWNTOWN	04/29/20
WW.148933	3583079	8	255	CIPP	SPRING CREEK	04/30/20
WW.142778	3583077	8	230	CIPP	SPRING CREEK	04/30/20
WW.154963	3583078	8	310	CIPP	SPRING CREEK	04/30/20

2020 LCERP ACTIVITY TABLE

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.138650	3583082	8	49	CIPP	SPRING CREEK	04/30/20
WW.148932	3583080	8	128	CIPP	SPRING CREEK	05/01/20
WW.140679	3583081	8	202	CIPP	SPRING CREEK	05/01/20
WW.133307	3583086	8	68	CIPP	SPRING CREEK	05/01/20
WW.155664	3575600	8	418	CIPP	DOWNTOWN	05/03/20
WW.150054	3575822	8	224	CIPP	DOWNTOWN	05/04/20
WW.139375	3163668	6	305	CIPP	SHOOKS RUN	05/05/20
WW.139872	3480131	8	388	CIPP	LOWER SAND CREEK	05/05/20
WW.135199	3480129	8	351	CIPP	LOWER SAND CREEK	05/05/20
WW.145533	3575819	8	248	CIPP	SHOOKS RUN	05/05/20
WW.155630	3575823	8	152	CIPP	DOWNTOWN	05/05/20
WW.145538	3575815	8	161	CIPP	DOWNTOWN	05/06/20
WW.144893	3583085	8	151	CIPP	SPRING CREEK	05/06/20
WW.136586	3583089	8	70	CIPP	SPRING CREEK	05/06/20
WW.161814	3575814	8	521	CIPP	DOWNTOWN	05/07/20
WW.134988	3583090	8	266	CIPP	SPRING CREEK	05/07/20
WW.147811	3583092	8	118	CIPP	SPRING CREEK	05/07/20
WW.206867	3583115	8	353	CIPP	UPPER SAND CREEK	05/07/20
WW.135740	3583093	8	402	CIPP	SPRING CREEK	05/08/20
WW.157785	3480125	8	164	CIPP	SHOOKS RUN	05/08/20
WW.153823	3583094	8	48	CIPP	SPRING CREEK	05/08/20
WW.207862	3694974	8	500	CIPP	DOWNTOWN	05/10/20
WW.147648	3694975	8	512	CIPP	DOWNTOWN	05/11/20
WW.134582	3575818	8	235	CIPP	DOWNTOWN	05/11/20
WW.145563	3575613	8	229	CIPP	DOWNTOWN	05/12/20
WW.159826	3576352	8	227	CIPP	DOWNTOWN	05/12/20
WW.134610	3575615	8	235	CIPP	DOWNTOWN	05/13/20
WW.164037	3583110	8	405	CIPP	UPPER SAND CREEK	05/13/20
WW.151796	3583111	8	408	CIPP	UPPER SAND CREEK	05/13/20
WW.163864	3575585	8	114	CIPP	DOWNTOWN	05/14/20
WW.172678	3694979	8	143	CIPP	DOWNTOWN	05/14/20
WW.144899	3583112	8	423	CIPP	UPPER SAND CREEK	05/14/20
WW.142788	3583113	8	424	CIPP	UPPER SAND CREEK	05/14/20
WW.137251	3575596	8	516	CIPP	DOWNTOWN	05/15/20
WW.206866	3583114	8	372	CIPP	UPPER SAND CREEK	05/15/20
WW.162000	3583116	8	254	CIPP	UPPER SAND CREEK	05/15/20
WW.141386	3575598	8	553	CIPP	DOWNTOWN	05/17/20
WW.151642	3575829	8	79	CIPP	DOWNTOWN	05/18/20
WW.156929	3583099	8	346	CIPP	UPPER SAND CREEK	05/18/20
WW.152822	3583097	8	272	CIPP	UPPER SAND CREEK	05/18/20
WW.151629	3575821	8	280	CIPP	DOWNTOWN	05/19/20
WW.148801	3583095	8	331	CIPP	UPPER SAND CREEK	05/19/20
WW.161045	3583100	8	263	CIPP	UPPER SAND CREEK	05/19/20
WW.159818	3575812	8	127	CIPP	DOWNTOWN	05/20/20
WW.152968	3583084	8	218	CIPP	SPRING CREEK	05/20/20
WW.141903	3583107	8	400	CIPP	UPPER SAND CREEK	05/21/20
WW.157940	3583108	8	340	CIPP	UPPER SAND CREEK	05/21/20
WW.137452	3583101	8	336	CIPP	SPRING CREEK	05/22/20
WW.141534	3583102	8	342	CIPP	SPRING CREEK	05/22/20

2020 LCERP ACTIVITY TABLE

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.151790	3583103	8	340	CIPP	SPRING CREEK	05/22/20
WW.139307	3575828	8	51	CIPP	DOWNTOWN	05/26/20
WW.134609	3575825	8	88	CIPP	DOWNTOWN	05/26/20
WW.176035	3583105	8	330	CIPP	PATTY JEWETT	05/26/20
WW.143432	3582754	8	416	CIPP	PATTY JEWETT	05/27/20
WW.151647	3575826	8	430	CIPP	DOWNTOWN	05/29/20
WW.159108	3583087	8	155	CIPP	SPRING CREEK	05/29/20
WW.136843	3605066	8	536	CIPP	BOTT	06/01/20
WW.155826	3583104	8	304	CIPP	SPRING CREEK	06/02/20
WW.149606	3582758	8	231	CIPP	PATTY JEWETT	09/28/20
WW.147636	3583071	8	199	CIPP	SPRING CREEK	09/29/20
WW.151633	3583072	8	319	CIPP	SPRING CREEK	09/29/20
WW.145554	3583076	8	266	CIPP	SPRING CREEK	09/30/20
WW.151634	3583074	8	156	CIPP	SPRING CREEK	09/30/20
WW.137421	3583075	8	106	CIPP	LOWER SAND CREEK	10/01/20
WW.152875	3583088	8	349	CIPP	SPRING CREEK	10/01/20
WW.152824	3583098	8	401	CIPP	UPPER SAND CREEK	10/06/20
WW.144727	3583099	8	299	CIPP	UPPER SAND CREEK	10/06/20
WW.134549	3582755	8	72	CIPP	PATTY JEWETT	10/07/20
WW.145515	3582757	8	65	CIPP	PATTY JEWETT	10/07/20
WW.146072	3582761	8	201	CIPP	PATTY JEWETT	10/07/20
WW.176056	3583106	8	153	CIPP	PATTY JEWETT	10/08/20
Totals	217		54,451			

Appendix B

2020 COLLECTION SYSTEM R&R ACTIVITY TABLE

PIPE LID	Task Order #	Work Order #	Existing Size	PIPE COND.	LENGTH (feet)	NEW PIPE SIZE	Completion Date
WW.173857	100	3621001	30	Corroded Pipe	397	NA	02/19/20
WW.173865	100	3621002	30	Corroded Pipe	192	NA	02/20/20
WW.148790	100	3621003	30	Corroded Pipe	399	NA	02/20/20
WW.161906	101	3518482	10	Corroded Pipe	374	NA	02/20/20
WW.133030	100	3621004	30	Corroded Pipe	396	NA	02/21/20
WW.143535	101	3518483	12	Corroded Pipe	234	NA	02/21/20
WW.144714	100	3621006	30	Corroded Pipe	239	NA	02/25/20
WW.158976	100	3621007	30	Corroded Pipe	316	NA	02/25/20
WW.159337	101	3518440	10	Corroded Pipe	374	NA	02/25/20
WW.143944	100	3621008	30	Corroded Pipe	399	NA	02/26/20
WW.147170	101	3518435	12	Corroded Pipe	110	NA	02/26/20
WW.152849	100	3621009	30	Corroded Pipe	374	NA	02/27/20
WW.142660	100	3621010	30	Corroded Pipe	246	NA	02/28/20
WW.146847	100	3621011	30	Corroded Pipe	407	NA	03/03/20
WW.154868	100	3621012	30	Corroded Pipe	395	NA	03/04/20
WW.159018	100	3621013	30	Corroded Pipe	306	NA	03/05/20
WW.150863	100	3621014	30	Corroded Pipe	400	NA	03/11/20
WW.133124	100	3621015	30	Corroded Pipe	345	NA	03/12/20
WW.150866	100	3621016	30	Corroded Pipe	355	NA	03/13/20
WW.152853	100	3621017	30	Corroded Pipe	208	NA	03/14/20
WW.148842	100	3621018	30	Corroded Pipe	209	NA	03/14/20
WW.146855	100	3621019	30	Corroded Pipe	275	NA	03/16/20
WW.160276	100	3621020	30	Corroded Pipe	251	NA	03/16/20
WW.152916	100	3621021	30	Corroded Pipe	405	NA	03/17/20
WW.148048	101	3518465	12	Corroded Pipe	371	NA	03/17/20
WW.159069	100	3621022	30	Corroded Pipe	312	NA	03/18/20
WW.157019	100	3621023	30	Corroded Pipe	155	NA	03/18/20
WW.144841	100	3694995	30	Corroded Pipe	100	NA	03/18/20
WW.145534	101	3575597	10	Corroded Pipe	182	NA	04/23/20
WW.141364	101	3575599	10	Corroded Pipe	28	NA	04/23/20
WW.145532	101	3694992	10	Corroded Pipe	34	NA	05/11/20
WW.139812	100	3621025	30	Corroded Pipe	518	NA	05/19/20
WW.134638	101	3575811	10	Corroded Pipe	454	NA	05/27/20
WW.143880	101	3575617	21	Corroded Pipe	238	NA	06/01/20
WW.161120	106	3621024	30	Corroded Pipe	234	NA	11/16/20
WW.146911	106	3695000	36	Corroded Pipe	322	NA	11/17/20
WW.140633	106	3695002	36	Corroded Pipe	32	NA	11/17/20
WW.159063	106	3695005	36	Corroded Pipe	403	NA	11/18/20
WW.154928	106	3694999	36	Corroded Pipe	397	NA	11/19/20
WW.138608	106	3695004	36	Corroded Pipe	400	NA	11/20/20
WW.133212	106	3695001	36	Corroded Pipe	116	NA	11/23/20
WW.159062	106	3695003	36	Corroded Pipe	101	NA	11/23/20
WW.140632	106	3694997	36	Corroded Pipe	25	NA	11/23/20
Totals		43			12,028		

Appendix C

2020 Colorado Springs Utilities SSCC Program Activities

Work Order No.	Project Name	Actual Spent (\$)
2973829	Monument Creek Stream Stabilization Upstream of Pikeview - Permitting Closeout	\$869.49
3303876	CSR Sludgeline Bank Protection - Construction	\$1,142,015.28
3129020	Dry Creek Stream Stabilization Downstream of Dawson Drive - Phase I Construction	\$188,109.93
3527938	Monument Creek at Uintah Street Bank Stabilization - Design & Construction	\$830,376.65
3411481	North Pulpit Rock Creek at Monument Creek Stream Stabilization - Construction	\$2,398.40
3221519	Sand Creek Upstream of Constitution Pond Stream Stabilization - Construction	\$78,599.95
3526106	Cottonwood Creek Austin Bluffs to Powers Stream Stabilization - Design	\$14,324.13
3536408	Unnamed Drainage Upstream of CSR Bank Project Repair Protection - Construction	\$69,323.13
3594397	Sand Creek Spring Ranch Golf Course Channel Drop 5 Emergency Repair	\$127,782.57
3526082	Monument Creek at Monument Street Stream Stabilization - Design	\$392,148.63
3460032	Sand Creek Stabilization KARR to West Fork Confluence - Design	\$21,284.58
3526124	West Fork of Sand Creek Stream Stabilization - Design	\$13,091.40
3636510	Dry Creek Stream Stabilization Phase II	\$9,633.98
3411434	Templeton Gap at Siferd Blvd Stream Stabilization	\$15,781.57
3526116	Sand Creek Downstream of East Fork Confluence Stream Stabilization	\$28,551.73
3331348	Habitat – Monument Creek Upstream of Pikeview Maintenance Services	\$5,072.83
SSCC Program 2020 Total Project Costs:		\$2,939,364.25

Summary of Storage, Diversion, Delivery of Water in Pueblo County related to the SDS Project

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

Summary of Storage, Diversion, Delivery of Water in Pueblo County

Storage & Diversion

Colorado Springs Utilities

	Pueblo Reservoir EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Long Term Excess Capacity Acct</i>	<i>Fry-Ark Carry Over Account</i>	acre-feet	acre-feet
Oct 2019	15,427.05	49,016.31	0.00	384.86
Nov	15,760.87	48,899.94	0.00	385.64
Dec	14,975.67	48,819.78	0.00	401.21
Jan 2020	13,792.56	48,743.91	0.00	398.25
Feb	13,911.80	48,632.32	0.00	373.77
Mar	14,860.19	48,382.63	0.00	418.97
Apr	15,478.40	48,082.65	0.00	383.31
May	17,008.80	51,373.97	0.00	276.91
Jun	18,783.06	50,738.72	0.00	259.67
Jul	16,731.65	50,181.96	0.00	286.01
Aug	16,922.26	49,625.82	0.00	282.95
Sep	16,696.05	49,167.08	0.00	277.34

Annual Total:

4128.90

City of Fountain

	Pueblo EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Fry-Ark Carryover Account</i>	<i>SDS Long-Term Excess Capacity Account</i>	acre-feet	acre-feet
Oct 2019	6,698.06	1,543.03	0.00	10.71
Nov	6,682.17	1,539.43	0.00	0.00
Dec	6,671.21	1,536.84	0.00	0.00
Jan 2020	6,660.85	1,534.41	0.00	95.07
Feb	6,645.60	1,476.41	0.00	104.31
Mar	6,611.48	1,361.44	0.00	157.65
Apr	6,570.49	1,405.59	0.00	42.73
May	7,092.49	1,250.47	0.00	324.47
Jun	7,004.72	1,043.91	0.00	330.02
Jul	6,816.70	1,351.33	297.52	276.56
Aug	6,562.01	1,380.32	0.00	348.22
Sep	6,360.74	1,497.79	0.00	240.20

Annual Total:

297.52

1929.94

Pueblo West Metropolitan District

	Pueblo Reservoir EOM Storage (acre-feet)	Total Diversion	Total Delivery
	<i>Pueblo West</i>	acre-feet	acre-feet
Oct 2019	4,641.45	0.00	0.00
Nov	6,638.87	0.00	0.00
Dec	7,770.57	0.00	0.00
Jan 2020	7,551.87	0.00	0.00
Feb	7,352.06	0.00	0.00
Mar	6,330.75	0.00	0.00
Apr	4,372.24	0.00	0.00
May	6,607.47	7.27	7.27
Jun	7,421.15	93.83	93.83
Jul	6,654.55	29.36	29.36
Aug	8,071.97	0.20	0.20
Sep	7,292.51	0.00	0.00

Annual Total: 130.66 130.66

Notes: Only used North Outlet Works May - August; remainder of deliveries out of South Outlet Works.

Security Water District

	Pueblo EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Fry-Ark Carryover Account</i>	<i>SDS Long- Term Excess Capacity Account</i>	acre-feet	acre-feet
Oct 2019	4,095.95	1,070.98	0.00	78.58
Nov	4,025.51	1,122.08	0.00	60.94
Dec	3,956.84	1,120.22	0.00	63.26
Jan 2020	3,885.47	1,208.47	0.00	64.76
Feb	3,825.22	1,235.78	0.00	62.78
Mar	3,805.58	1,223.25	0.00	41.18
Apr	3,781.98	1,162.46	0.00	66.16
May	5,039.09	1,030.97	0.00	205.10
Jun	4,976.72	895.09	0.00	223.95
Jul	4,853.81	792.25	0.00	216.03
Aug	4,800.02	735.56	0.00	182.04
Sep	4,755.65	618.60	0.00	182.98

Annual Total: 0.00 1447.76

Summary of Participants' SDS Return Flows to Fountain Creek Including Storage and Releases of Such Return Flows

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

Summary of Participants' Return Flows to Fountain Creek
Including Storage and Releases of Such Return Flows
Return Flow Summary

Colorado Springs Utilities

SDS Return Flow Summary

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Fountain Creek Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2019	289.78	4.71	27.65	0.00	0.00
Nov	251.97	4.23	4.81	0.00	0.00
Dec	272.83	4.44	11.39	0.00	0.00
Jan 2020	303.90	4.94	11.45	0.00	0.00
Feb	272.57	4.74	7.93	0.00	0.00
Mar	305.67	4.97	8.21	0.00	0.00
Apr	227.62	3.83	9.03	0.00	0.00
May	66.64	1.08	1.75	0.00	0.00
Jun	60.72	1.02	1.62	0.00	0.00
Jul	71.30	1.16	2.02	0.00	0.00
Aug	69.72	1.13	1.86	0.00	0.00
Sep	94.28	1.58	5.27	0.00	0.00
	2287.01			0.00	0.00

City of Fountain

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2019	6.12	0.10	0.59	0.00	0.00
Nov	0.00	0.00	0.00	0.00	0.00
Dec	0.00	0.00	0.00	0.00	0.00
Jan 2020	78.91	1.28	1.74	0.00	0.00
Feb	84.49	1.47	1.98	0.00	0.00
Mar	135.89	2.21	2.61	0.00	0.00
Apr	34.27	0.58	2.43	0.00	0.00
May	174.20	2.83	4.76	0.00	0.00
Jun	174.14	2.93	4.98	0.00	0.00
Jul	98.83	1.61	2.41	0.00	0.00
Aug	101.41	1.65	2.30	0.00	0.00
Sep	38.07	0.64	1.36	0.00	0.00
	926.33			0.00	0.00

Pueblo West Metropolitan District

Return Flow Summary

Pueblo West does not discharge return flows to Fountain Creek.

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2019	n/a	0.00	0.00	0.00	0.00
Nov		0.00	0.00	0.00	0.00
Dec		0.00	0.00	0.00	0.00
Jan 2020		0.00	0.00	0.00	0.00
Feb		0.00	0.00	0.00	0.00
Mar		0.00	0.00	0.00	0.00
Apr		0.00	0.00	0.00	0.00
May		0.00	0.00	0.00	0.00
Jun		0.00	0.00	0.00	0.00
Jul		0.00	0.00	0.00	0.00
Aug		0.00	0.00	0.00	0.00
Sep		0.00	0.00	0.00	0.00

0.00

0.00

0.00

Security Water District

	Total SDS RFs to Fountain Creek	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2019	65.04	1.06	1.07	0.00	0.00
Nov	66.58	1.12	1.20	0.00	0.00
Dec	67.22	1.09	1.22	0.00	0.00
Jan 2020	66.36	1.08	1.19	0.00	0.00
Feb	63.33	1.10	1.20	0.00	0.00
Mar	37.72	0.61	0.63	0.00	0.00
Apr	45.25	0.76	0.77	0.00	0.00
May	71.76	1.17	1.18	0.00	0.00
Jun	72.59	1.22	1.23	0.00	0.00
Jul	73.67	1.20	1.20	0.00	0.00
Aug	67.92	1.10	1.12	0.00	0.00
Sep	72.57	1.22	1.24	0.00	0.00

770.01

0.00

0.00

Summaries of SDS Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

Summaries of Exchanges by Participants between Pueblo Reservoir and the Fountain Creek Confluence

Colorado Springs Utilities

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2019	153.31	2.49
Nov	108.09	1.82
Dec	249.26	4.05
Jan 2020	317.33	5.16
Feb	287.10	4.99
Mar	317.67	5.17
Apr	226.55	3.81
May	72.95	1.19
Jun	73.01	1.23
Jul	68.68	1.12
Aug	54.51	0.89
Sep	59.79	1.00
	1988.25	

City of Fountain

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2019	0.00	0.00
Nov	0.00	0.00
Dec	0.00	0.00
Jan 2020	0.00	0.00
Feb	0.00	0.00
Mar	0.00	0.00
Apr	0.00	0.00
May	0.00	0.00
Jun	0.00	0.00
Jul	0.00	0.00
Aug	0.00	0.00
Sep	0.00	0.00
	0.00	

Pueblo West Metropolitan District

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2019	0.00	0.00
Nov	0.00	0.00
Dec	0.00	0.00
Jan 2020	0.00	0.00
Feb	0.00	0.00
Mar	0.00	0.00
Apr	0.00	0.00
May	0.00	0.00
Jun	0.00	0.00
Jul	0.00	0.00
Aug	0.00	0.00
Sep	0.00	0.00

0.00

Security Water District

SDS Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Oct 2019	0.00	0.00
Nov	0.00	0.00
Dec	0.00	0.00
Jan 2020	0.00	0.00
Feb	0.00	0.00
Mar	0.00	0.00
Apr	0.00	0.00
May	0.00	0.00
Jun	0.00	0.00
Jul	0.00	0.00
Aug	0.00	0.00
Sep	0.00	0.00

0.00

Pueblo Flow Management Program

Data will be reported in 12-month increments, from October of the previous year to September of the current year.

Pueblo Flow Management Program

Southern Delivery System
1041 Permit Reporting
Water Year 2020

Entity: Colorado Springs Utilities

Pueblo Flow Management Program Summary

			Amount	Rate	<i>Run to Colo Canal</i>	<i>86CW117 aug</i>	<i>Colo Canal aug</i>	
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet	Leased acre-feet
October 7, 2019	9:00	19:00	16.80	8.47	0.00	0.00	16.80	0.00
October 11, 2019	7:00	23:59	56.07	28.27	32.31	0.00	23.75	0.00
October 12, 2019	12:00	23:59	72.75	36.68	45.62	0.00	27.13	0.00
October 13, 2019	0:00	23:59	42.19	21.27	42.19	0.00	0.00	0.00
October 14, 2019	0:00	19:00	38.82	19.35	36.12	0.00	2.71	0.00
October 18, 2019	7:00	23:59	41.19	20.77	41.19	0.00	0.00	0.00
October 19, 2019	0:00	23:59	54.90	27.68	54.90	0.00	0.00	0.00
October 20, 2019	0:00	23:59	51.20	25.81	51.20	0.00	0.00	0.00
October 21, 2019	0:00	19:00	39.00	19.66	39.00	0.00	0.00	0.00
November 4, 2019	14:00	17:00	13.77	6.94	0.00	0.00	13.77	0.00
November 15, 2019	0:00	23:59	84.05	42.37	84.05	0.00	0.00	0.00
November 16, 2019	0:00	23:59	84.18	42.44	84.18	0.00	0.00	0.00
November 17, 2019	0:00	23:59	84.28	42.49	84.28	0.00	0.00	0.00
November 18, 2019	0:00	23:59	84.58	42.64	84.58	0.00	0.00	0.00
November 19, 2019	0:00	23:59	85.41	43.06	85.41	0.00	0.00	0.00
November 20, 2019	0:00	23:59	86.49	43.60	86.49	0.00	0.00	0.00
November 21, 2019	0:00	23:59	86.41	43.57	86.41	0.00	0.00	0.00
November 22, 2019	0:00	23:59	88.25	44.49	88.25	0.00	0.00	0.00
November 23, 2019	0:00	23:59	90.34	45.54	90.34	0.00	0.00	0.00
November 24, 2019	0:00	23:59	92.28	46.52	92.28	0.00	0.00	0.00

Entity: Colorado Springs Utilities

Pueblo Flow Management Program Summary

			Amount	Rate	<i>Run to Colo Canal</i>	<i>86CW117 aug</i>	<i>Colo Canal aug</i>	<i>Leased</i>
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet	acre-feet
November 25, 2019	0:00	23:59	91.80	46.28	91.80	0.00	0.00	0.00
November 26, 2019	0:00	23:59	89.55	45.15	89.55	0.00	0.00	0.00
November 27, 2019	0:00	23:59	89.19	44.96	89.19	0.00	0.00	0.00
November 28, 2019	0:00	23:59	88.28	44.51	88.28	0.00	0.00	0.00
November 29, 2019	0:00	23:59	88.85	44.80	88.85	0.00	0.00	0.00
November 30, 2019	0:00	23:59	94.32	47.55	94.32	0.00	0.00	0.00
December 1, 2019	0:00	23:59	94.52	47.65	94.52	0.00	0.00	0.00
December 2, 2019	0:00	23:59	92.60	46.68	92.60	0.00	0.00	0.00
December 3, 2019	0:00	23:59	92.42	46.60	92.42	0.00	0.00	0.00
December 4, 2019	0:00	23:59	92.18	46.47	92.18	0.00	0.00	0.00
December 5, 2019	0:00	23:59	89.39	45.07	89.39	0.00	0.00	0.00
December 6, 2019	0:00	23:59	88.20	44.47	88.20	0.00	0.00	0.00
December 7, 2019	0:00	23:59	87.57	44.15	87.57	0.00	0.00	0.00
December 8, 2019	0:00	23:59	88.61	44.67	88.61	0.00	0.00	0.00
December 9, 2019	0:00	20:00	68.31	34.44	68.31	0.00	0.00	0.00
August 7, 2020	7:00	23:59	57.27	28.87	36.72	20.55	0.00	0.00
August 8, 2020	0:00	23:59	35.87	18.08	35.87	0.00	0.00	0.00
August 9, 2020	12:00	23:59	41.60	20.97	41.60	0.00	0.00	0.00
August 10, 2020	0:00	19:00	34.25	17.27	34.25	0.00	0.00	0.00
September 3, 2020	16:00	23:59	23.27	11.73	23.14	0.12	0.00	0.00
September 4, 2020	0:00	23:59	59.11	29.80	59.11	0.00	0.00	0.00
September 5, 2020	0:00	23:59	54.15	27.30	54.15	0.00	0.00	0.00
September 6, 2020	0:00	23:59	58.61	29.55	58.61	0.00	0.00	0.00
September 7, 2020	0:00	23:59	59.53	30.01	59.53	0.00	0.00	0.00
September 8, 2020	0:00	23:59	50.08	25.25	50.08	0.00	0.00	0.00

Entity: Colorado Springs Utilities

Pueblo Flow Management Program Summary

			Amount	Rate	<i>Run to Colo Canal</i>	<i>86CW117 aug</i>	<i>Colo Canal aug</i>	
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet	<i>Leased</i> acre-feet
September 9, 2020	0:00	23:59	72.43	36.52	69.42	3.01	0.00	0.00
September 18, 2020	7:00	23:59	47.90	24.15	36.33	11.57	0.00	0.00
September 19, 2020	0:00	23:59	67.12	33.84	67.12	0.00	0.00	0.00
September 20, 2020	0:00	23:59	67.00	33.78	67.00	0.00	0.00	0.00
September 21, 2020	0:00	23:59	63.37	31.95	63.37	0.00	0.00	0.00
September 22, 2020	0:00	23:59	65.75	33.15	65.75	0.00	0.00	0.00
September 23, 2020	0:00	23:59	58.35	29.42	58.35	0.00	0.00	0.00
September 24, 2020	0:00	23:59	61.52	31.02	61.52	0.00	0.00	0.00
September 25, 2020	0:00	23:59	56.63	28.55	56.63	0.00	0.00	0.00
September 26, 2020	0:00	23:59	50.17	25.29	50.17	0.00	0.00	0.00
September 27, 2020	0:00	23:59	56.23	28.35	56.23	0.00	0.00	0.00
September 28, 2020	0:00	23:59	64.21	32.37	64.21	0.00	0.00	0.00
September 29, 2020	0:00	23:59	63.05	31.79	63.05	0.00	0.00	0.00
September 30, 2020	0:00	23:59	68.79	34.68	68.79	0.00	0.00	0.00

Low Flow Program Summary (Colorado Springs and BWWP only)

			Amount	Rate	<i>Use 1</i>	<i>Use 2</i>	<i>Use 3</i>
Date	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
no releases in 2020							

Entity: City of Fountain

Pueblo Flow Management Program Summary

			Amount	Rate	Use 1	Use 2	Use 3
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
n/a							

Entity: Pueblo West Metropolitan District

Pueblo Flow Management Program Summary

			Amount	Rate	Spill	Use 2	Use 3
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
September 4, 2020	0:00	23:59	3.15	1.59	3.15		
September 5, 2020	0:00	23:59	2.78	1.40	2.78		
September 6, 2020	0:00	23:59	2.90	1.46	2.90		
September 7, 2020	0:00	23:59	2.92	1.47	2.92		
September 8, 2020	0:00	23:59	2.79	1.40	2.79		
September 9, 2020	0:00	23:59	2.75	1.39	2.75		
September 10, 2020	0:00	23:59	2.86	1.44	2.86		
September 11, 2020	0:00	23:59	2.88	1.45	2.88		
September 12, 2020	0:00	23:59	2.79	1.41	2.79		
September 15, 2020	0:00	23:59	2.69	1.36	2.69		
September 16, 2020	0:00	23:59	2.68	1.35	2.68		
September 17, 2020	0:00	23:59	3.08	1.55	3.08		
September 18, 2020	0:00	23:59	2.71	1.37	2.71		
September 19, 2020	0:00	23:59	2.73	1.38	2.73		
September 20, 2020	0:00	23:59	3.27	1.65	3.27		
September 21, 2020	0:00	23:59	2.45	1.24	2.45		
September 22, 2020	0:00	23:59	2.76	1.39	2.76		
September 23, 2020	0:00	23:59	2.91	1.47	2.91		
September 24, 2020	0:00	23:59	2.96	1.49	2.96		

Entity: Pueblo West Metropolitan District

Pueblo Flow Management Program Summary

			Amount	Rate	Spill	Use 2	Use 3
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
September 25, 2020	0:00	23:59	2.89	1.46	2.89		
September 26, 2020	0:00	23:59	2.74	1.38	2.74		
September 27, 2020	0:00	23:59	2.84	1.43	2.84		
September 28, 2020	0:00	23:59	2.74	1.38	2.74		
September 29, 2020	0:00	23:59	2.70	1.36	2.70		
September 30, 2020	0:00	23:59	2.76	1.39	2.76		

Entity: Security Water District

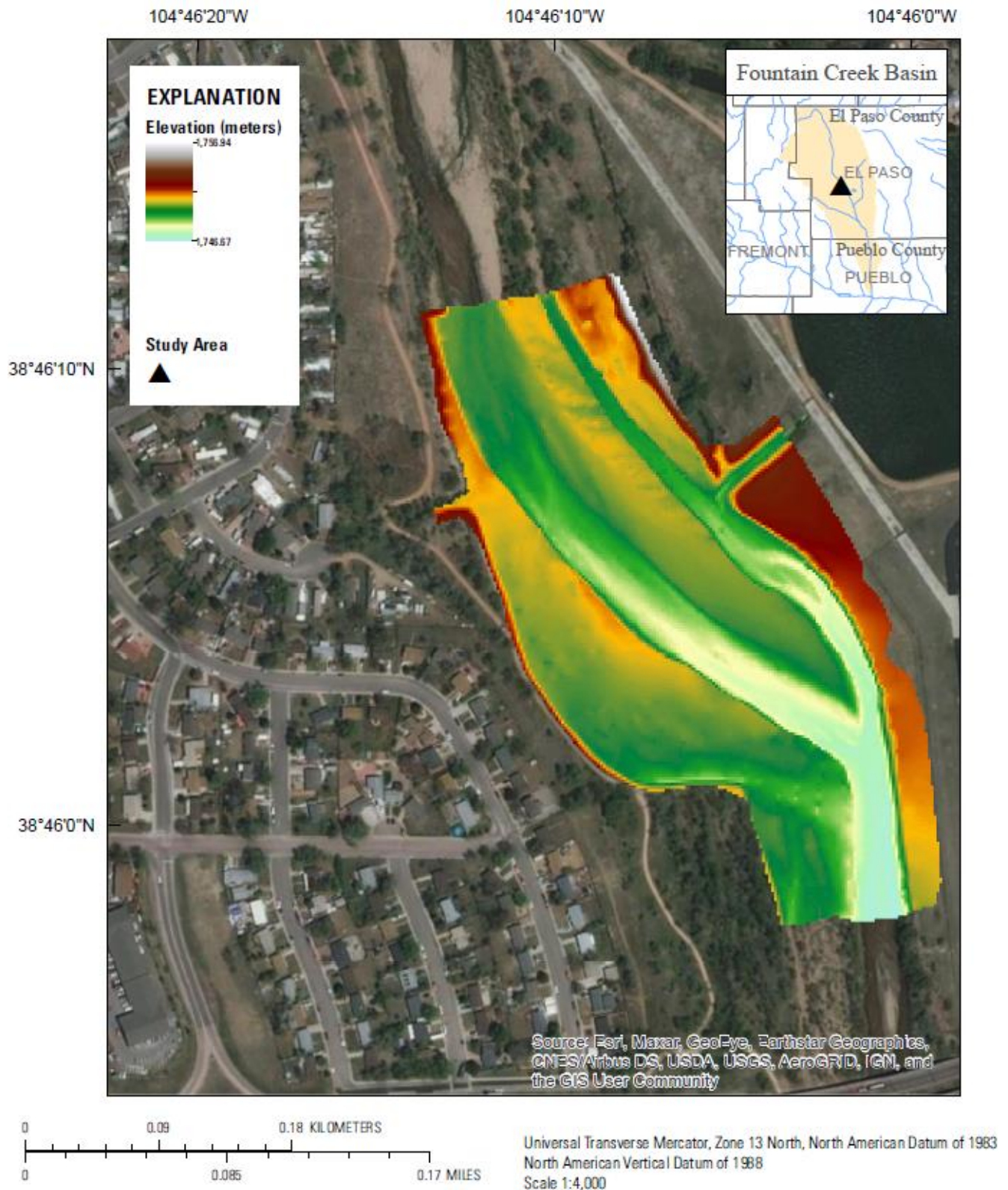
Pueblo Flow Management Program Summary

			Amount	Rate	Use 1	Use 2	Use 3
Date Curtailed	Start Time	End Time	acre-feet	cfs	acre-feet	acre-feet	acre-feet
n/a							

Geomorphology Monitoring

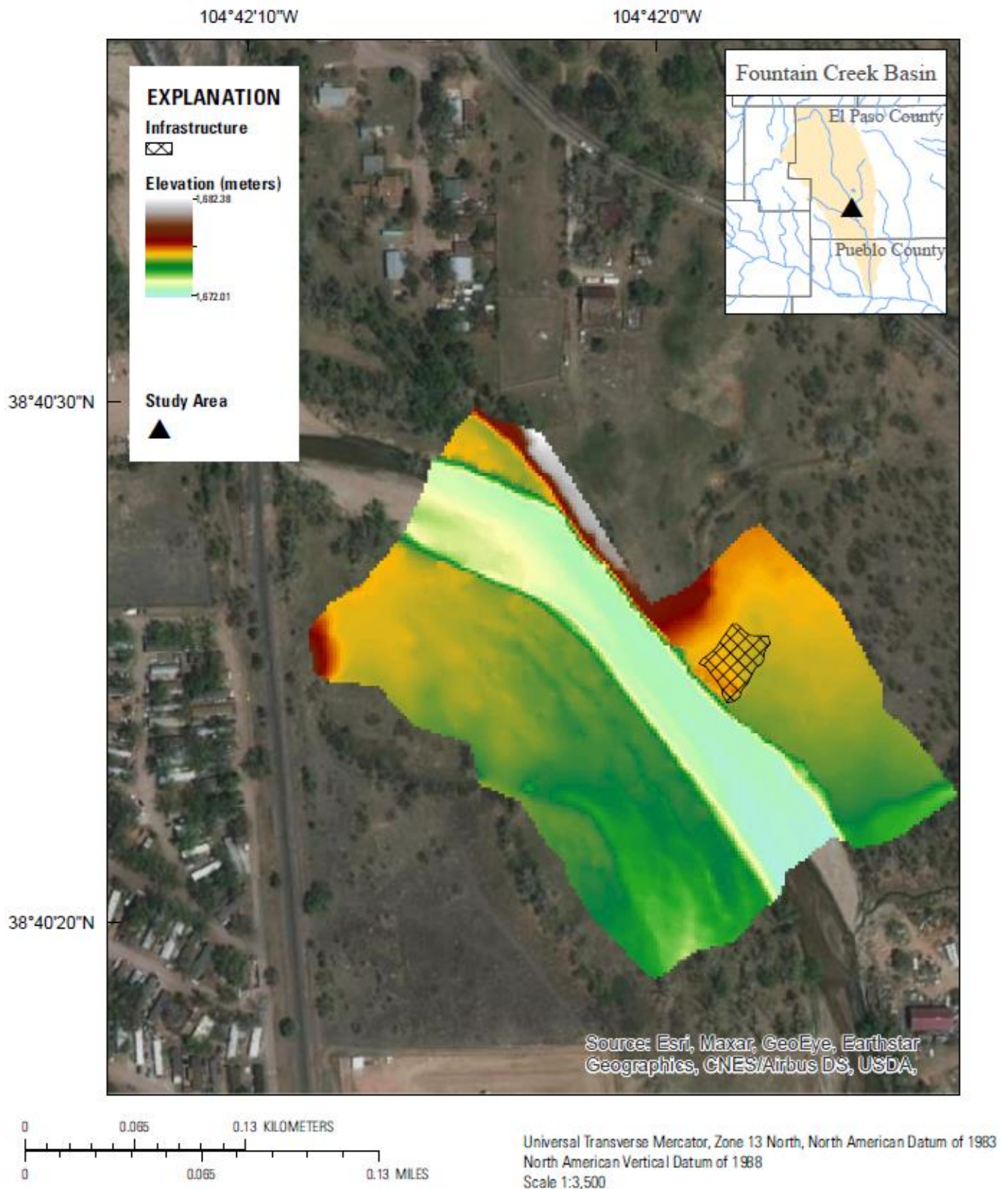
Geomorphic monitoring data are collected under an existing program led by the USGS in partnership with Colorado Springs Utilities and the City of Colorado Springs Engineering Department. Ten cross sections established at designated points along Fountain Creek are monitored for degradation, aggradation, and other changes to the geomorphic surface. Each cross section is surveyed once per year during low stream flow; preferably in the winter when leaves and other organic material on the ground is at a minimum. Survey data from 2015 are provided as pre-SDS operations baseline conditions along with survey data from the reporting period (2020) for comparative purposes. These data present topographic survey data, Light Detection and Ranging (LiDAR) survey data, and elevation rasters, collected or generated during 2020 as part of that monitoring effort. Topographic survey points were collected using real-time kinematic Global Navigation Satellite Systems (RTK-GNSS). These point data, along with LiDAR point clouds, were used to generate digital elevation maps (2020). These survey data and maps provide an annual assessment of the geomorphic changes at each study area.

Elevation Map (2015)- Study Area 01



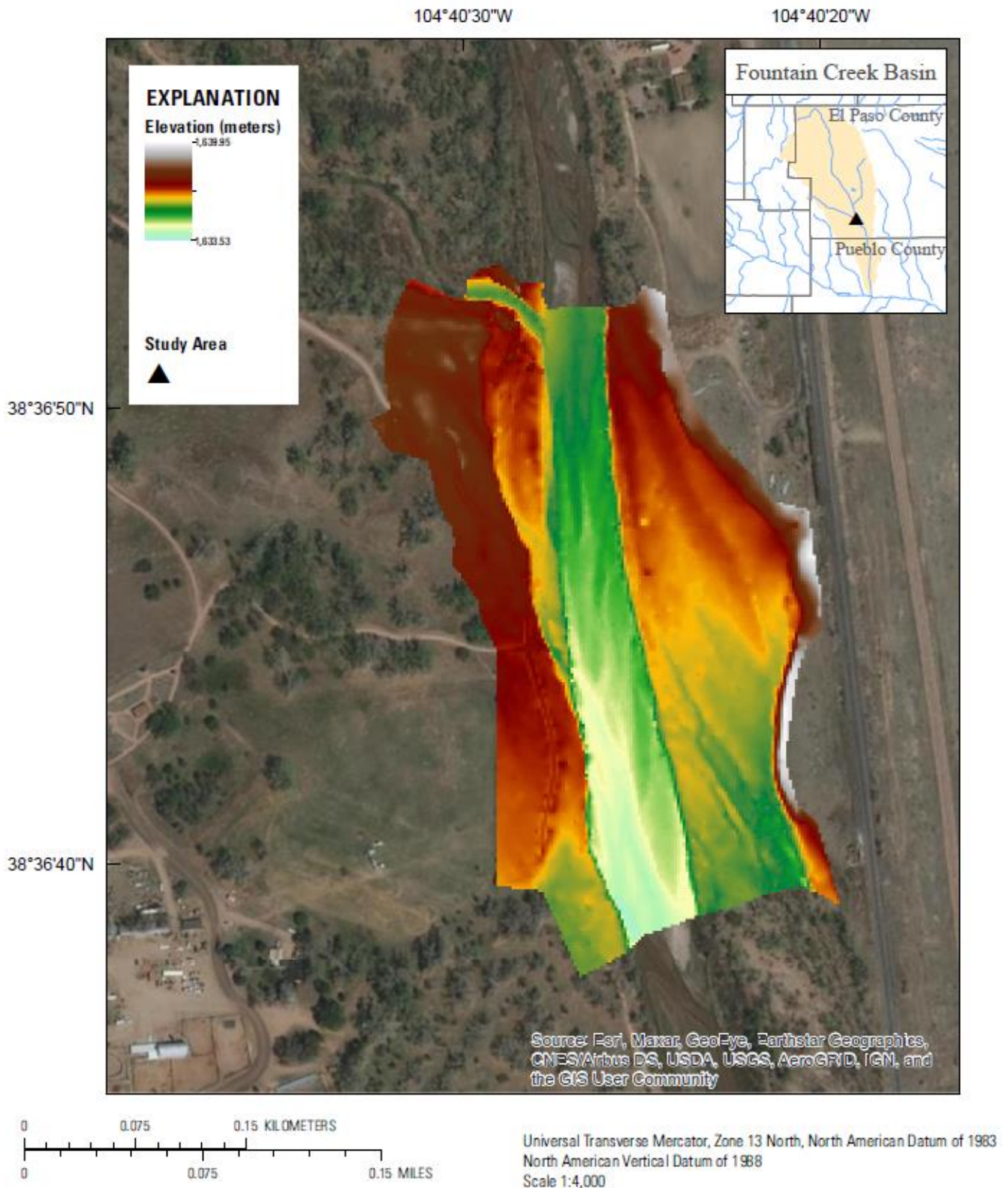
Elevation map of Fountain Creek study area 01 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 02



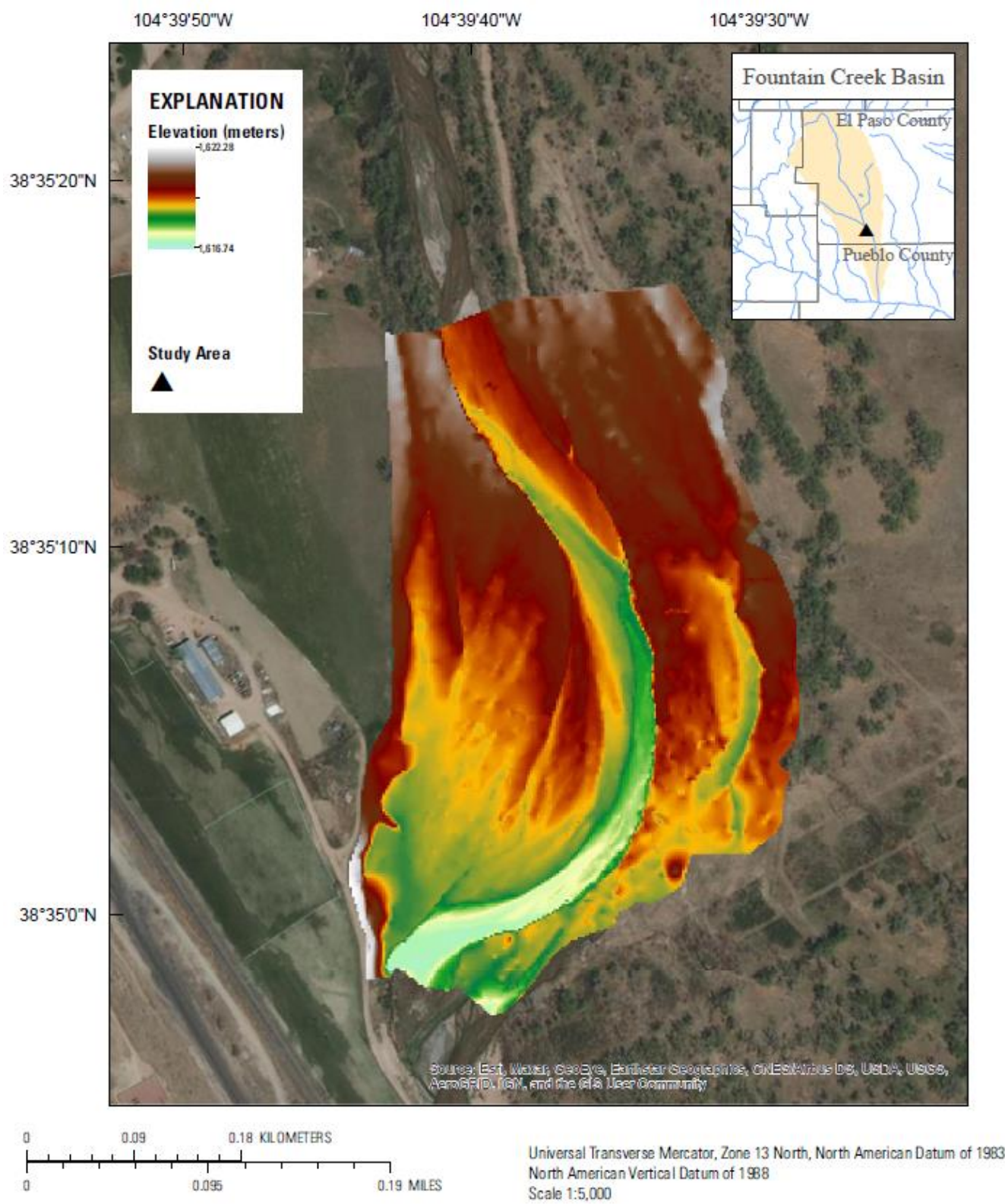
Elevation map of Fountain Creek study area 02 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 03



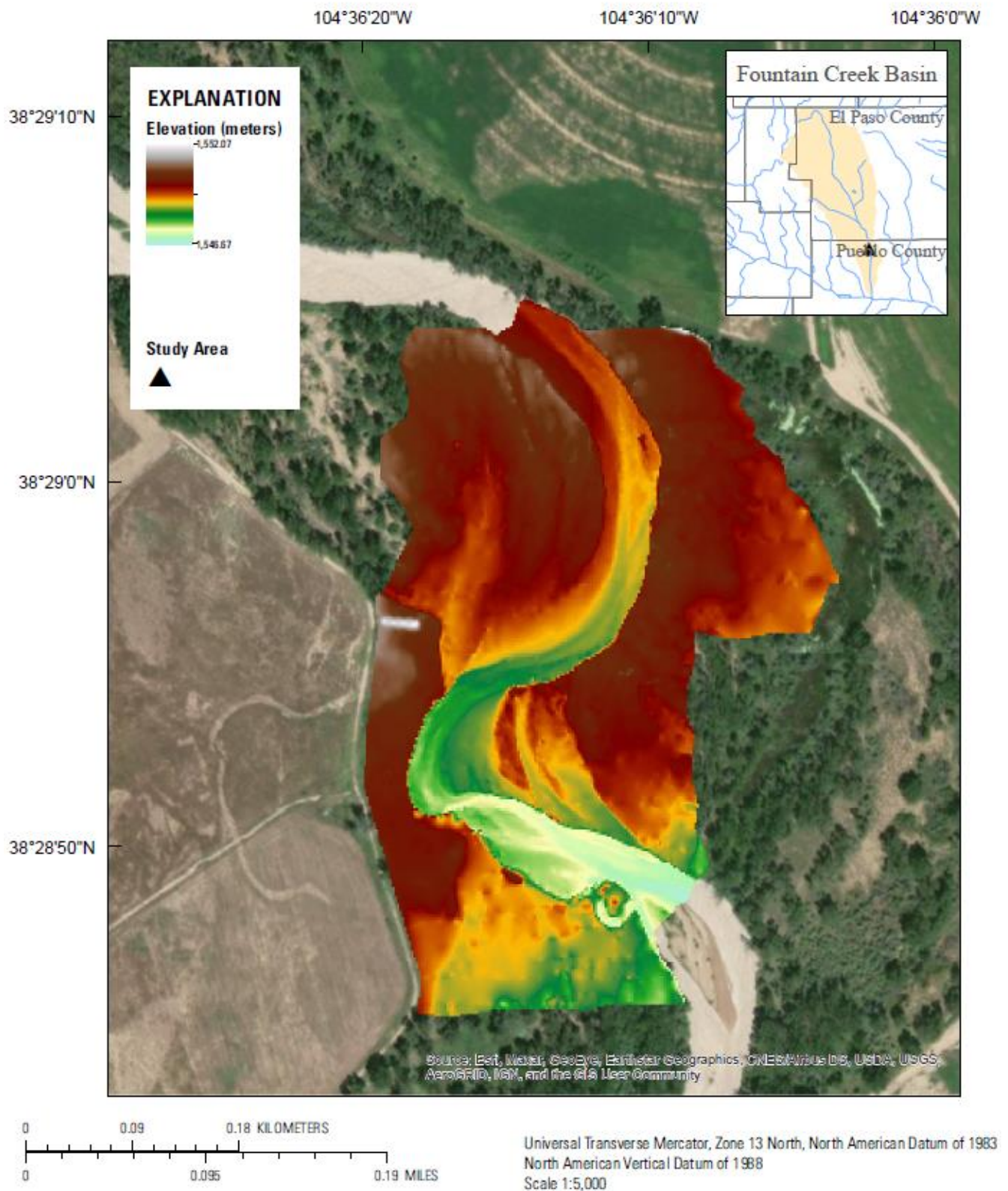
Elevation map of Fountain Creek study area 03 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 04



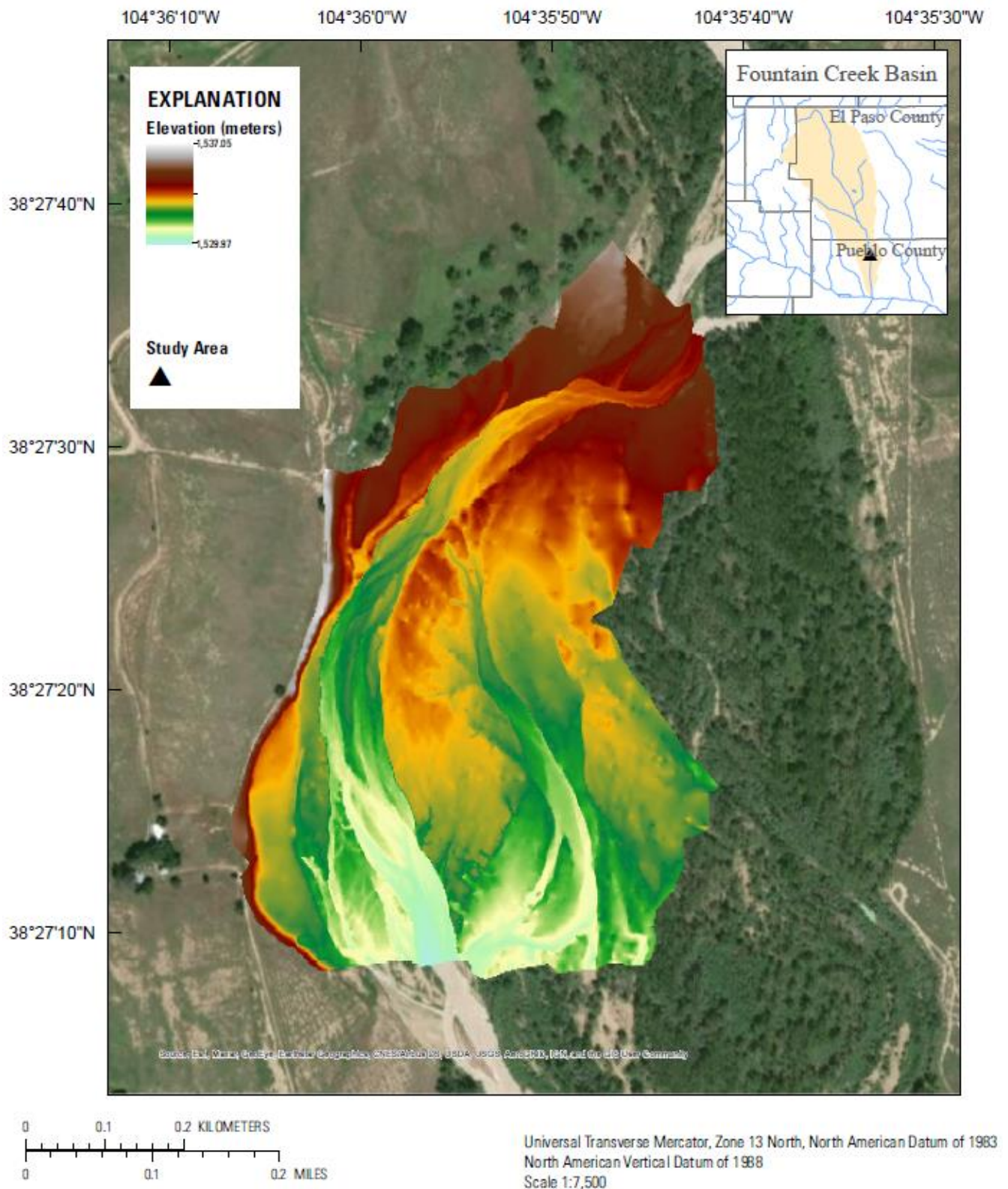
Elevation map of Fountain Creek study area 04 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 05



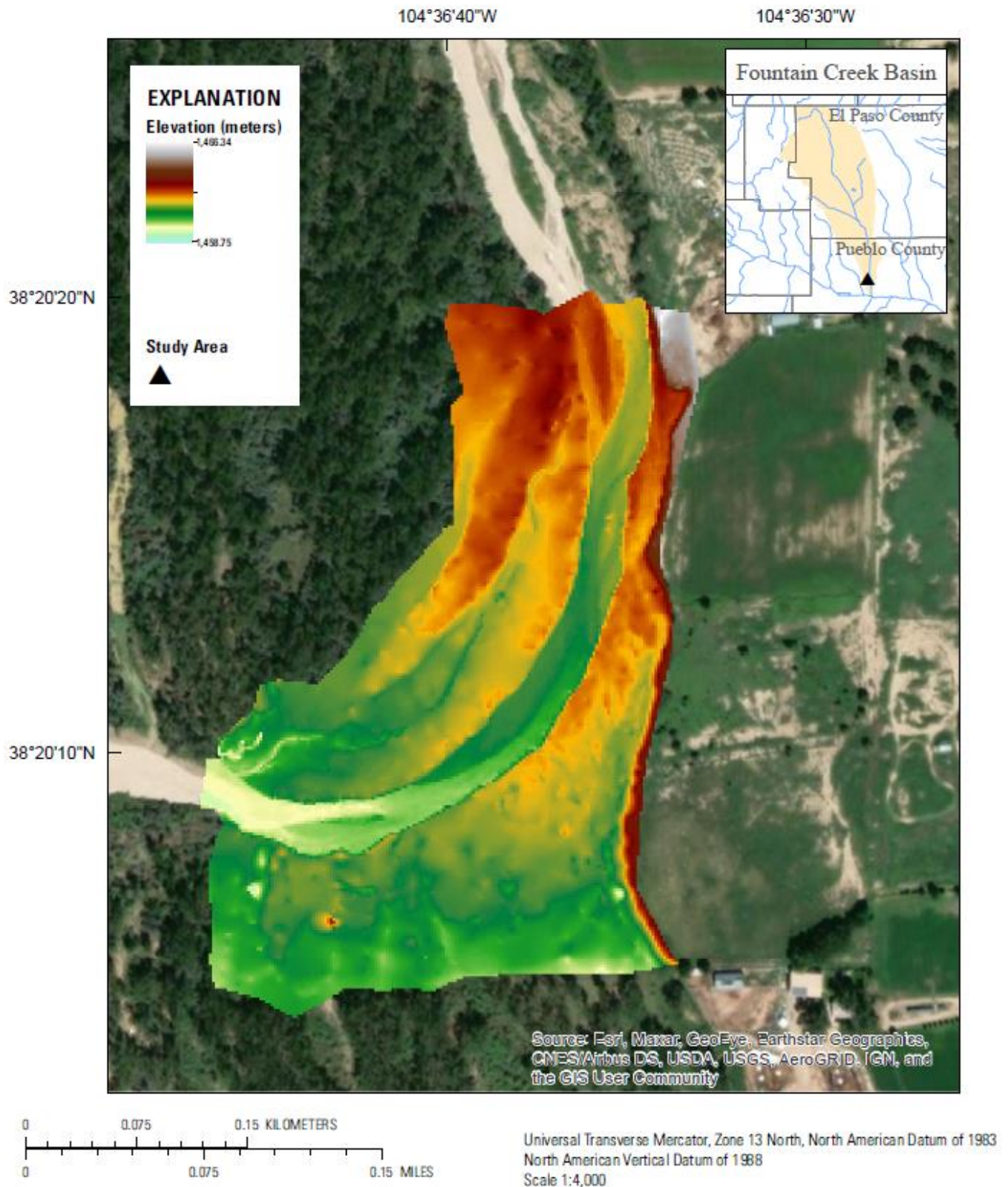
Elevation map of Fountain Creek study area 05 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 06



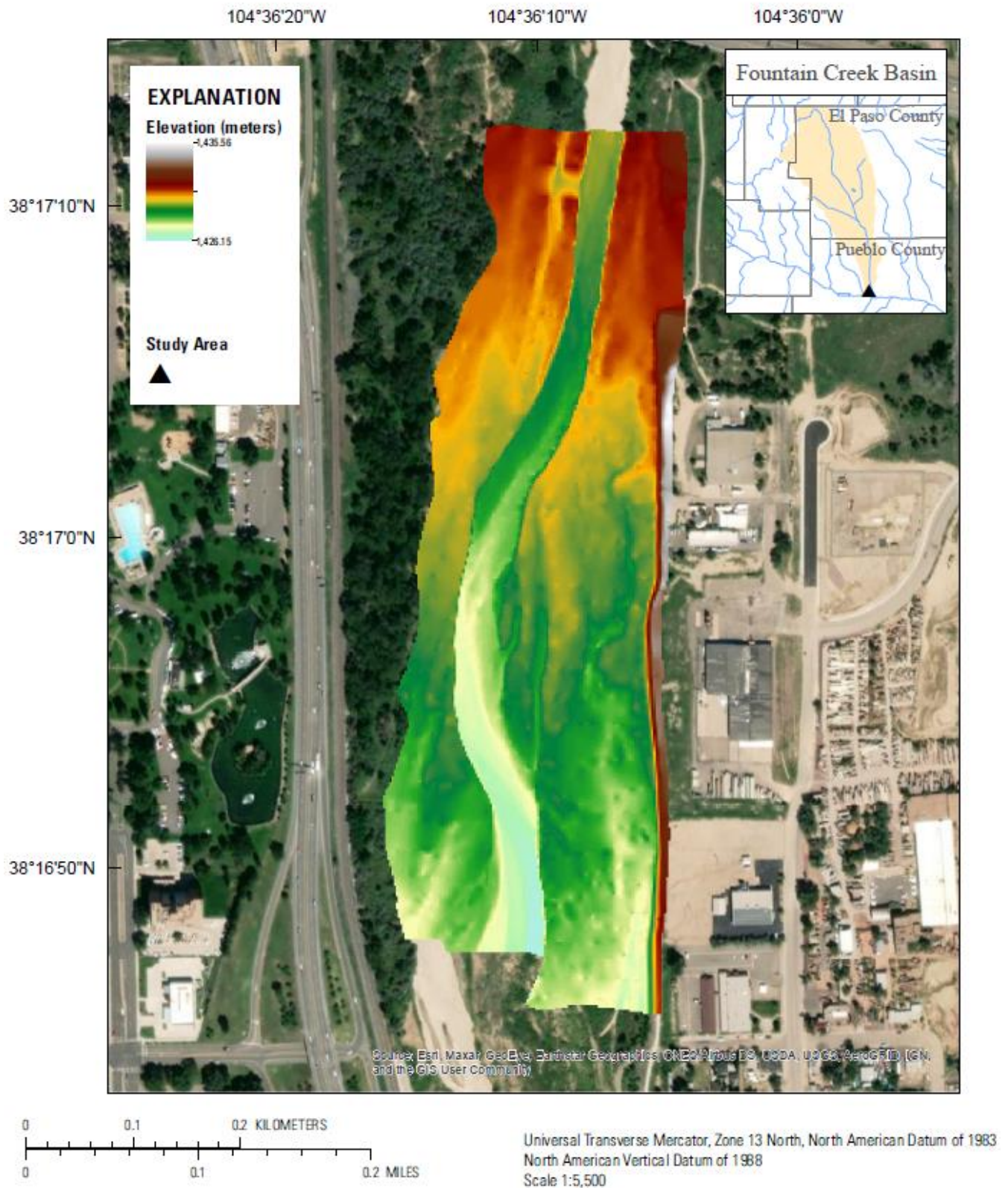
Elevation map of Fountain Creek study area 06 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 07



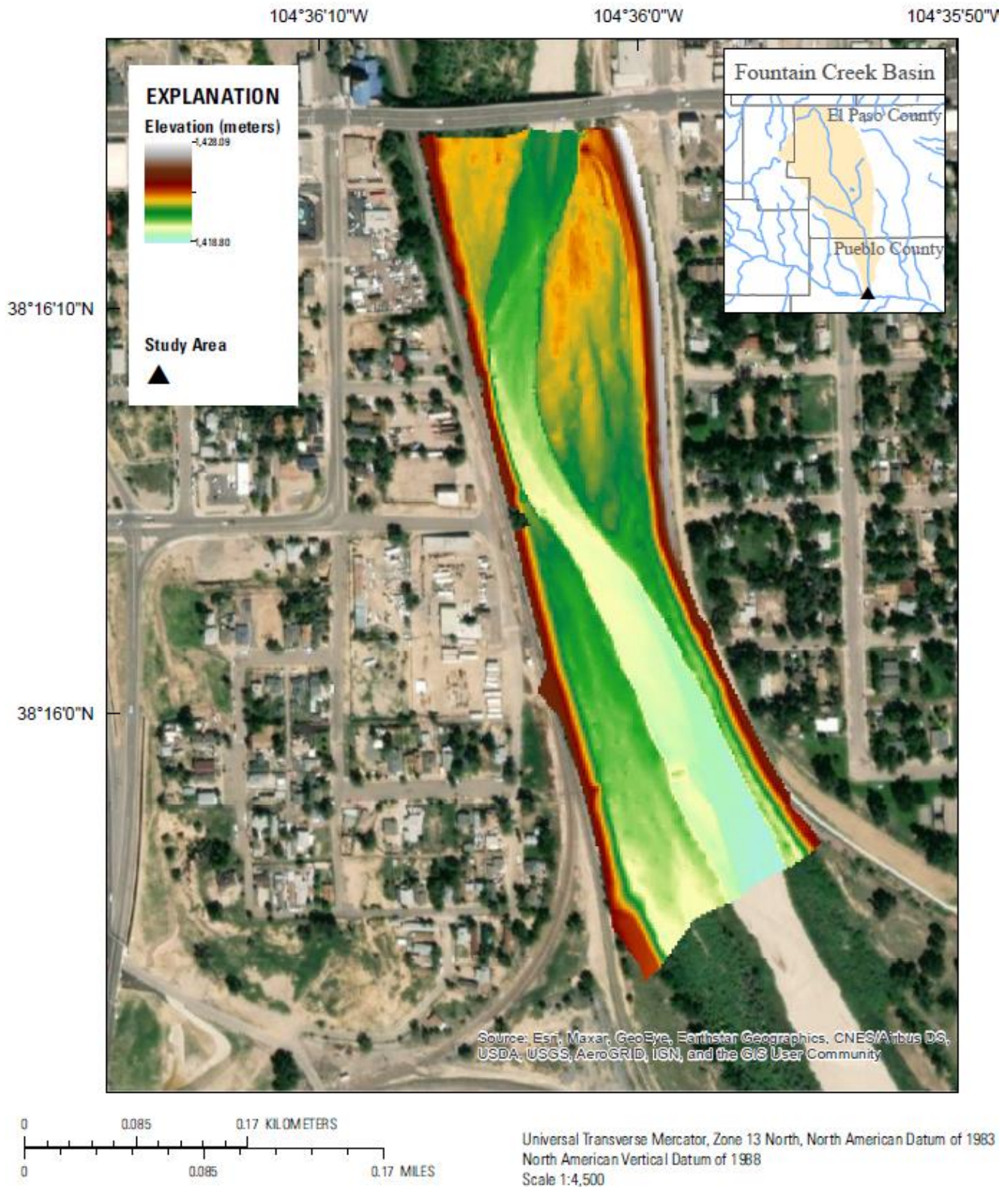
Elevation map of Fountain Creek study area 07 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 08



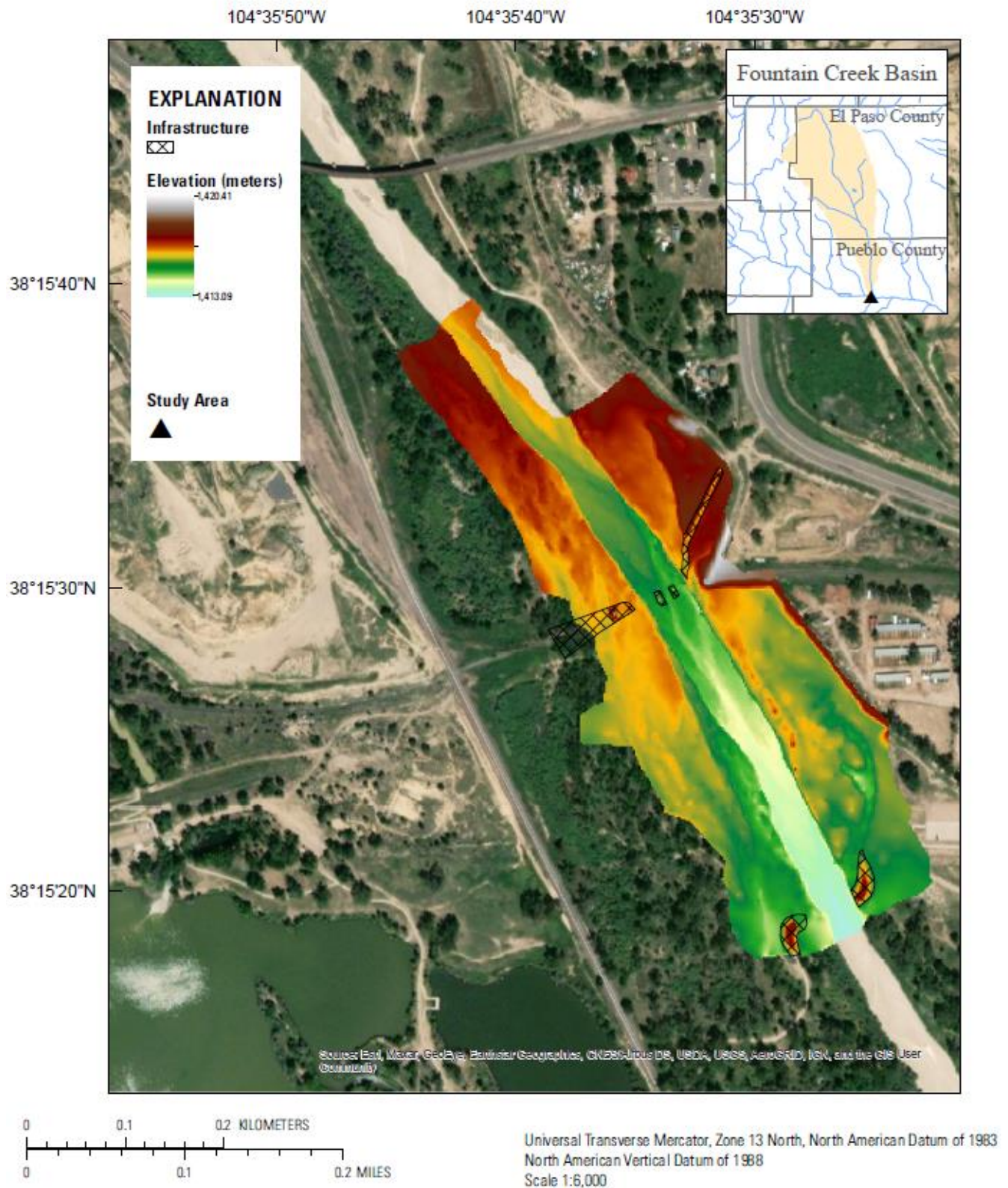
Elevation map of Fountain Creek study area 08 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 09



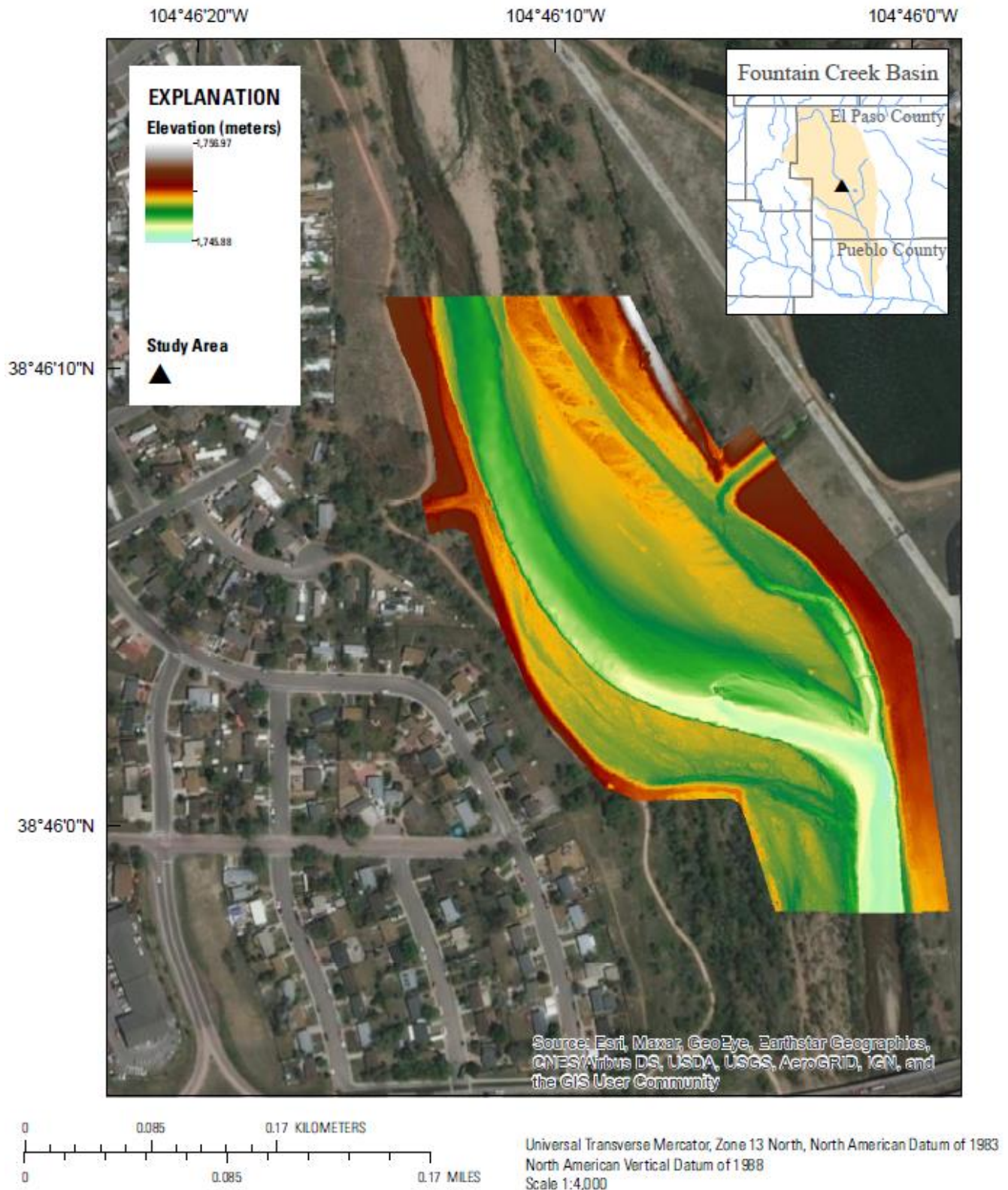
Elevation map of Fountain Creek study area 09 with an aerial background image, 2015.

Elevation Map (2015)- Study Area 10



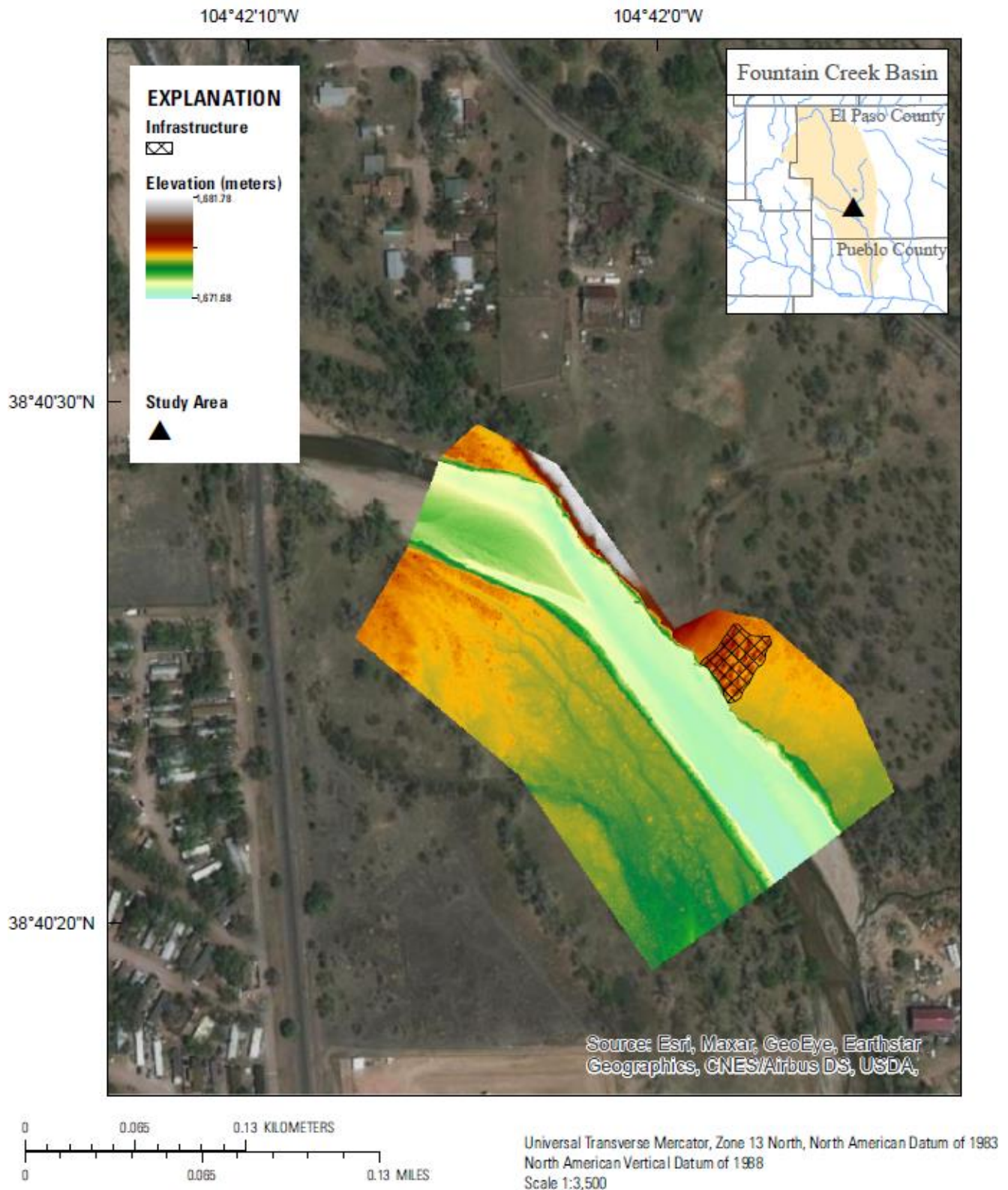
Elevation map of Fountain Creek study area 10 with an aerial background image, 2015.

Elevation Map (2020)- Study Area 01



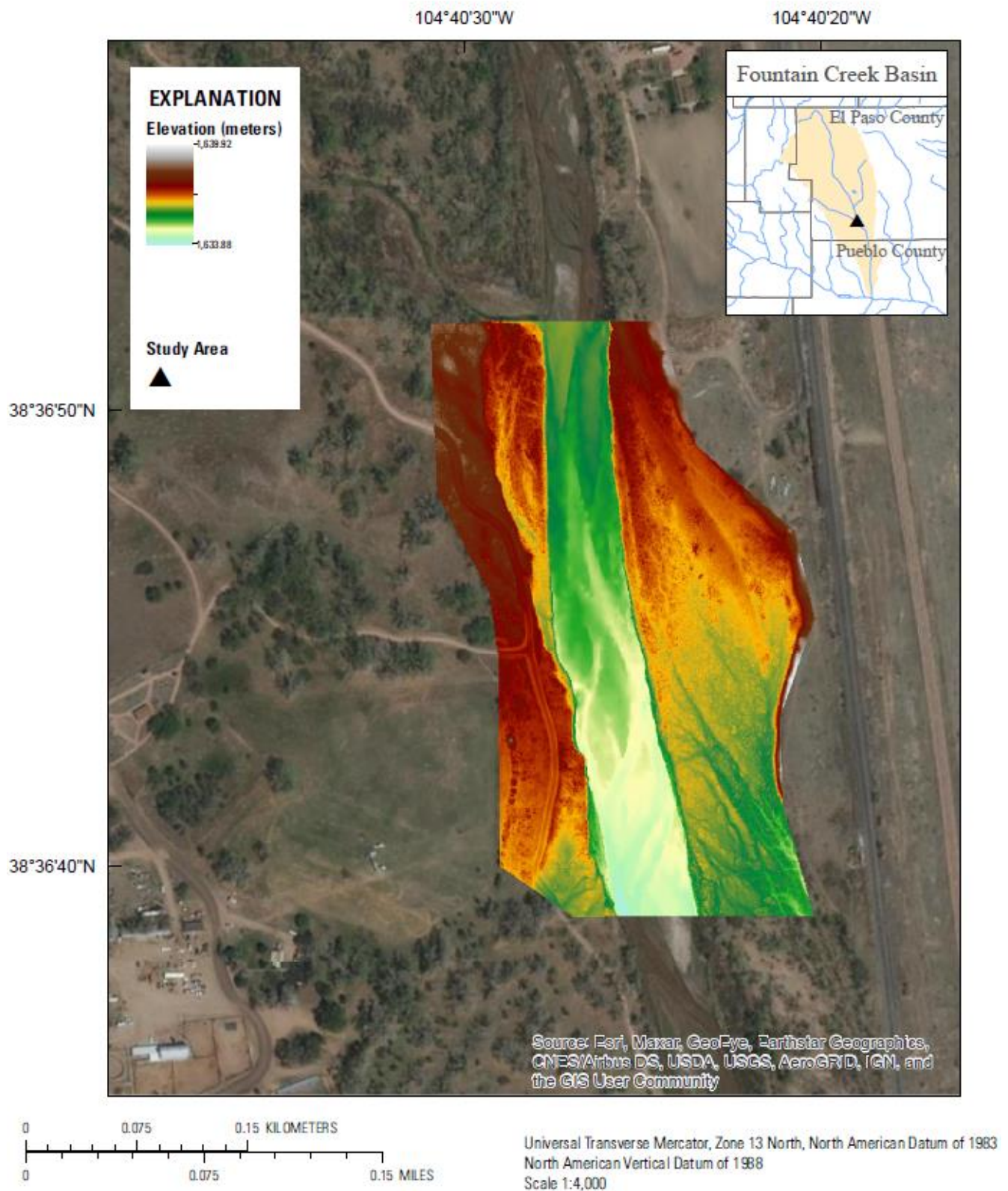
Elevation map of Fountain Creek study area 01 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 02



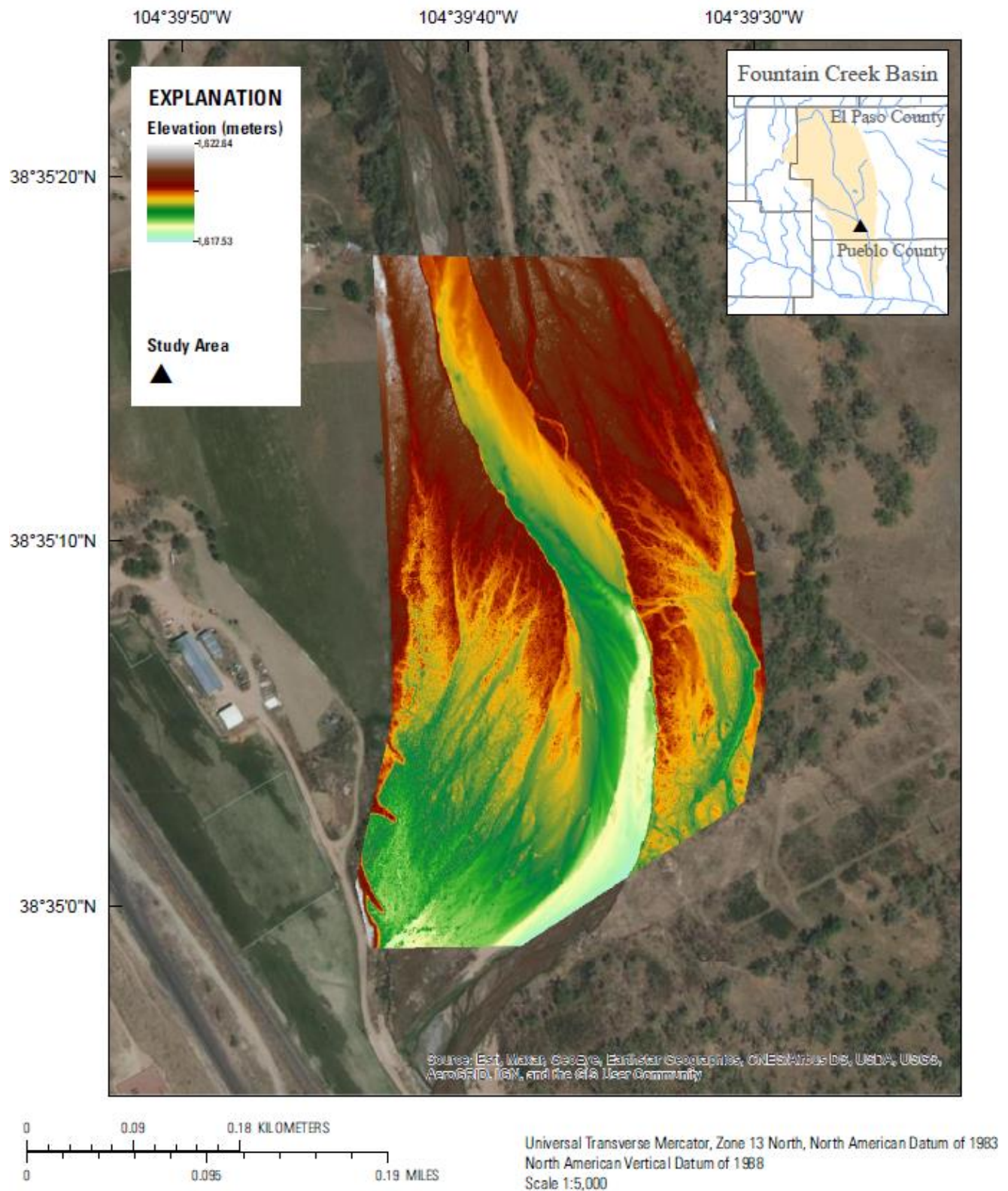
Elevation map of Fountain Creek study area 02 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 03



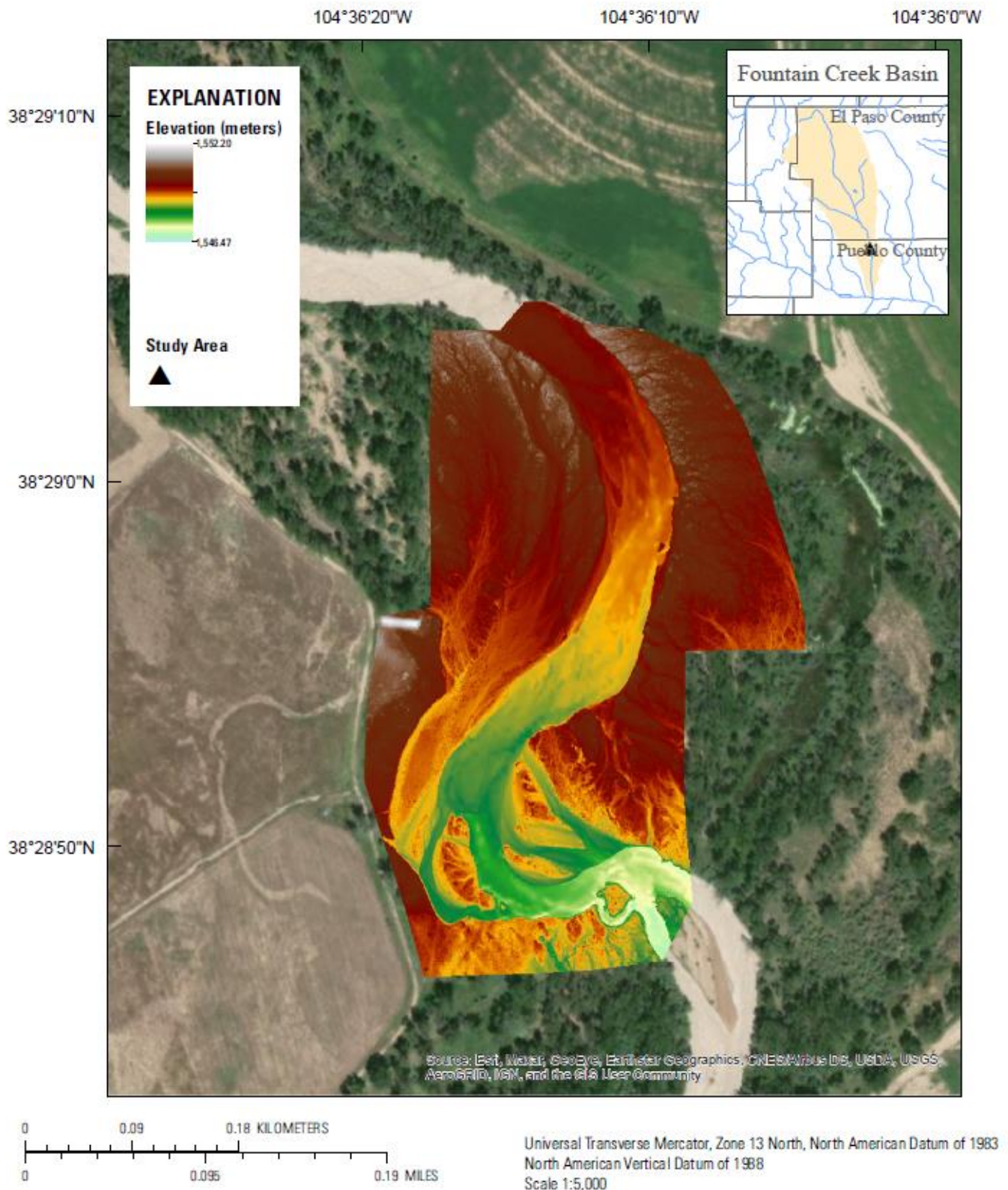
Elevation map of Fountain Creek study area 03 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 04



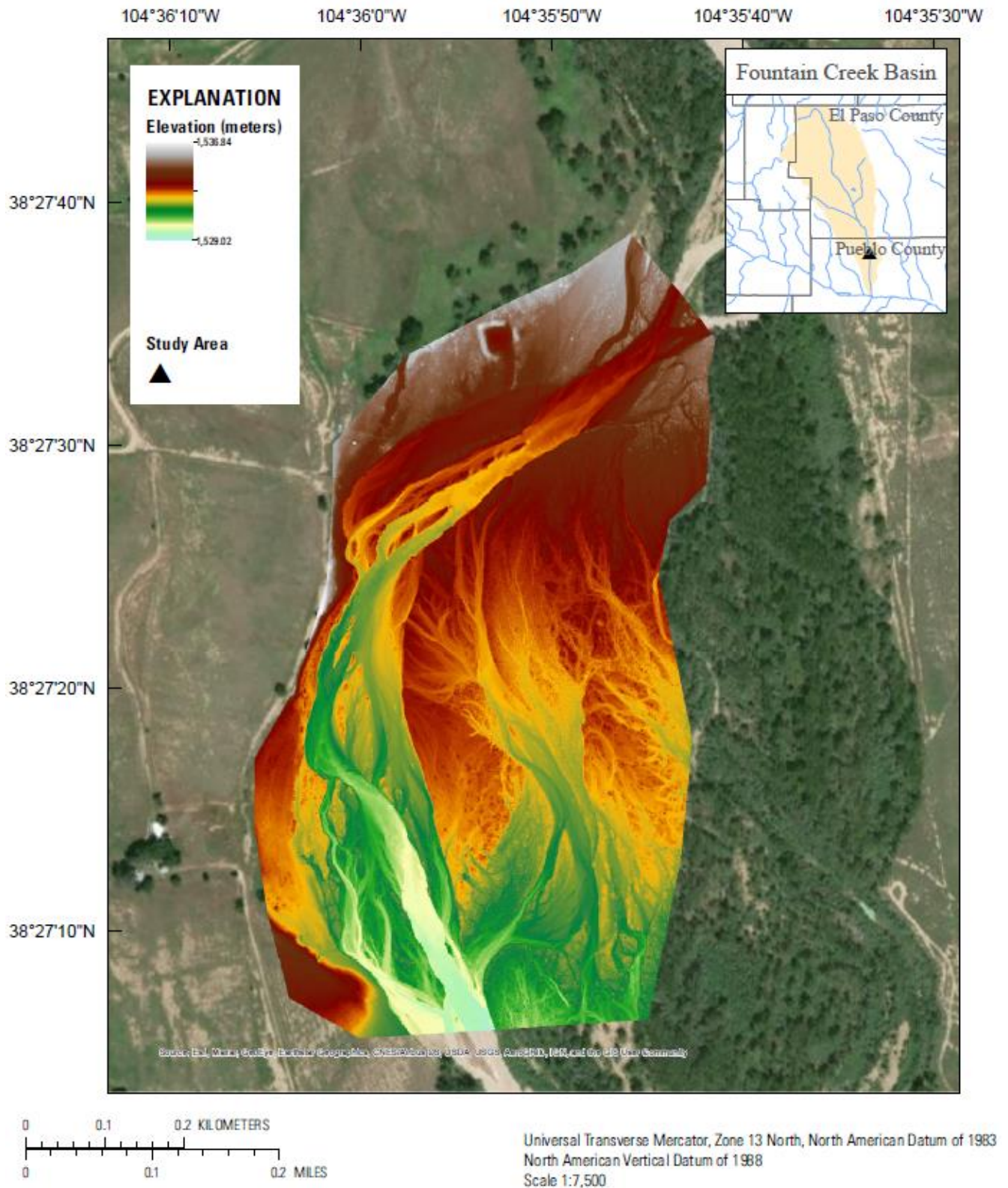
Elevation map of Fountain Creek study area 04 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 05



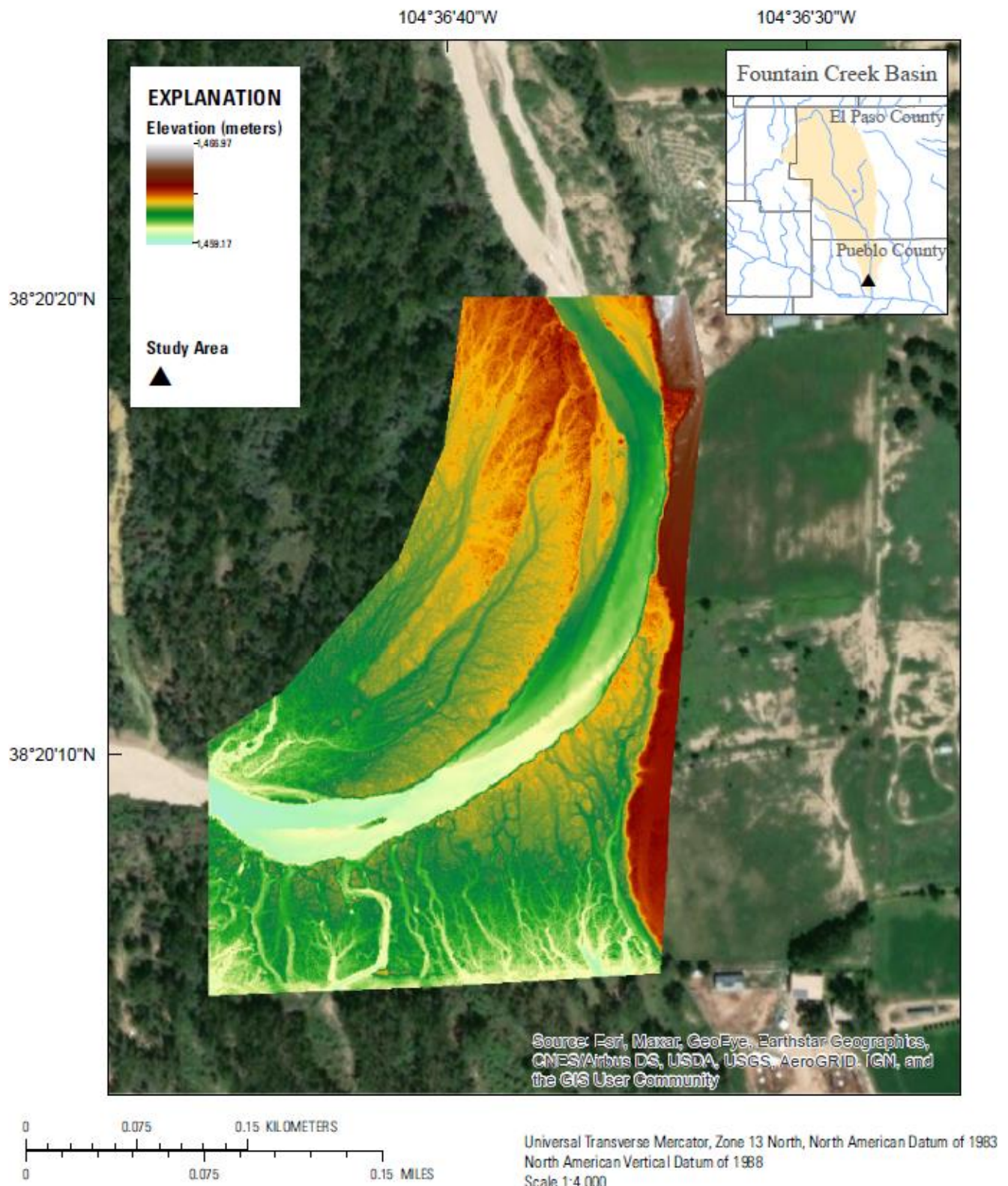
Elevation map of Fountain Creek study area 05 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 06



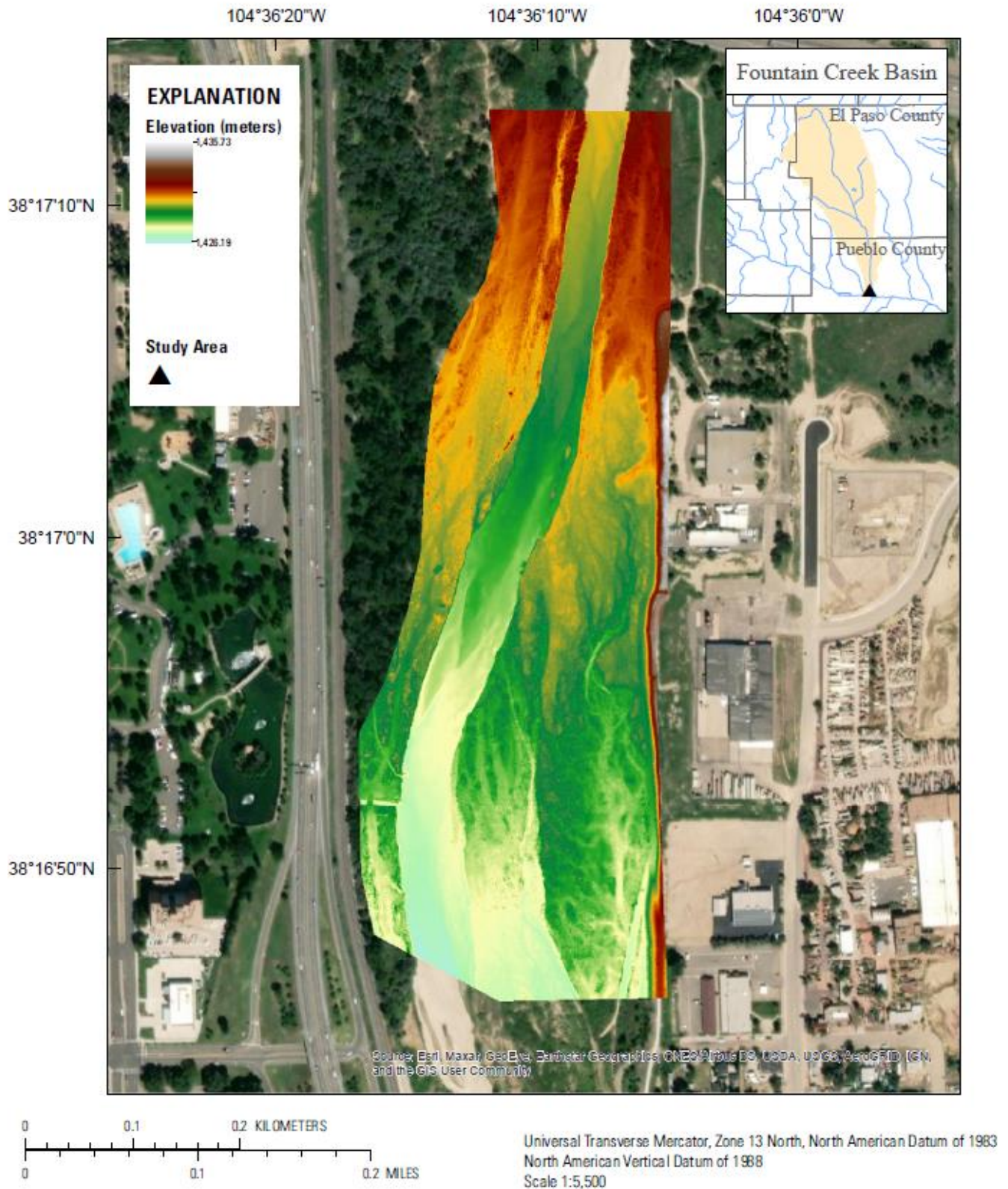
Elevation map of Fountain Creek study area 06 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 07



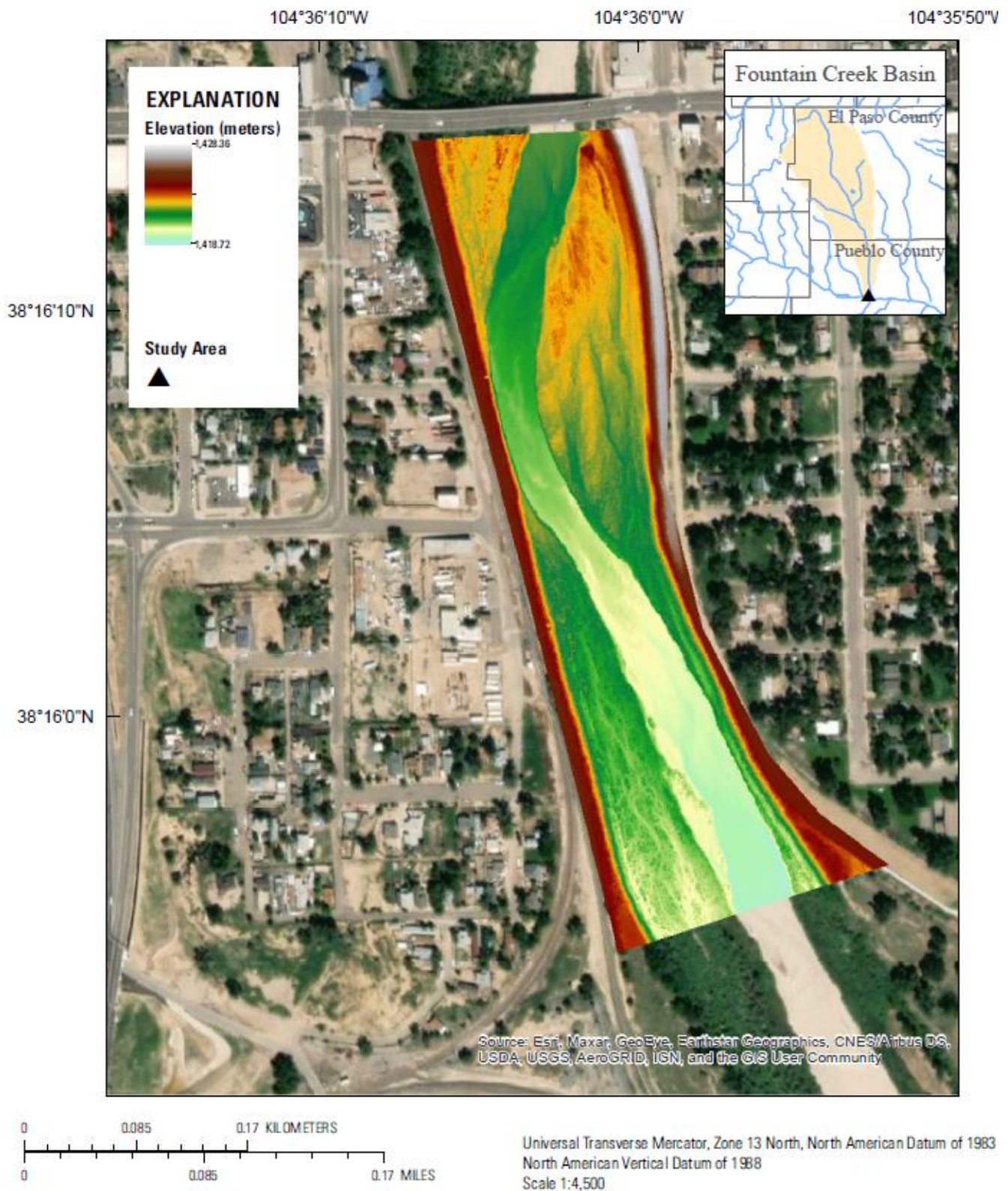
Elevation map of Fountain Creek study area 07 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 08



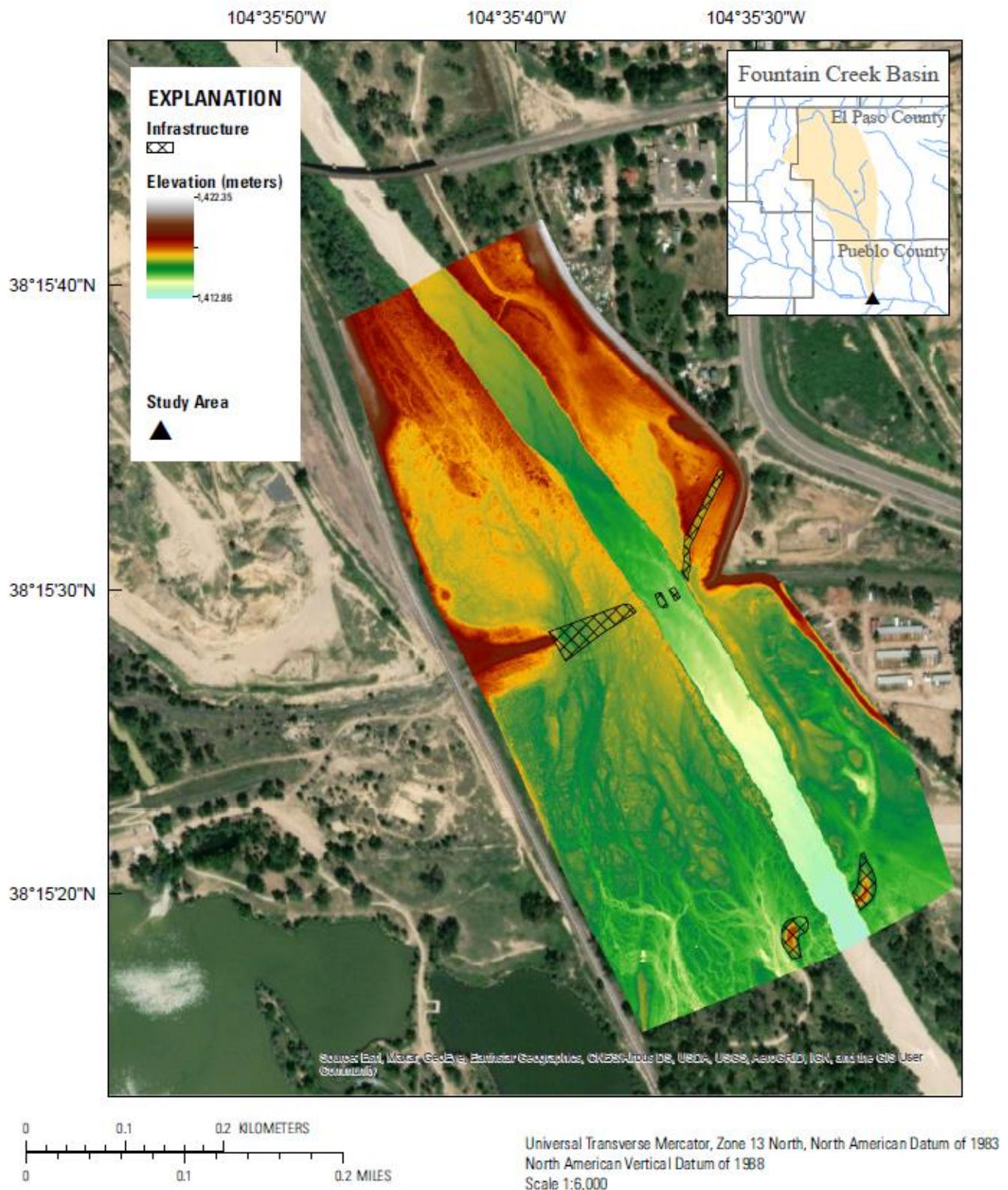
Elevation map of Fountain Creek study area 08 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 09



Elevation map of Fountain Creek study area 09 with an aerial background image, 2020.

Elevation Map (2020)- Study Area 10



Elevation map of Fountain Creek study area 10 with an aerial background image, 2020.