



January 31, 2017

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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 2016)

Mr. Ryan:

Colorado Springs Utilities, the Southern Delivery System (SDS) Project Manager, hereby submits the attached Permit Compliance Annual Report (PCAR) for Calendar Year 2016. 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, appearing to read 'David Padgett', is written over a blue circular stamp.

David Padgett  
Chief Environmental Officer

Enclosure

cc: City of Fountain, Curtis Mitchell, Director of Utilities  
Colorado Department of Public Health and Environment, Steven Gunderson, Director,  
Water Quality Control Division  
Colorado Parks and Wildlife, Dan Prenzlows, Regional Manager, Southeast Region

Fountain Creek Watershed Flood Control and Greenway District, Larry Small, Executive Director

Pueblo County Planning & Development, Joan Armstrong, Director

Pueblo West Metropolitan District, Scott Eilert, Director of Utilities

Security Water and Sanitation District, Roy Heald, District Manager

U.S. Army Corps of Engineers, Antoinette Gant, Lieutenant Colonel, U.S. Army, District Commander

# **Southern Delivery System Permit Compliance Annual Report**

**Calendar Year 2016**

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 2017

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# Acronyms and Abbreviations

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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
DSD	Development Services Department
EMS	Environmental Management System
FEIS	Final Environmental Impact Statement
FWMP	Fish and Wildlife Mitigation Plan
GMP	Geomorphic Mitigation Plan
IAMP	Integrated Adaptive Management Plan
mgd	million gallons per day
MP	Monitoring Plan
NEPA	National Environmental Policy Act
PCAR	Permit Compliance Annual Report
PDC	Pueblo Dam Connection
Reclamation	Bureau of Reclamation
ROD	Record of Decision
SCMP	Socioeconomic Construction Management Plan
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
UWCR	Upper Williams Creek Reservoir
WCR	Williams Creek Reservoir
WTP	water treatment plant

# Executive Summary

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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, 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, April 26, 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. As Phase I construction activities were completed in 2016, this is the final report documenting Phase I construction compliance. This report begins the transition to the operational and on-going commitments of SDS. Beginning in 2017, the focus of this report will be on commitments associated with project operations.

## Summary of SDS Activities During this Reporting Period

Construction of the water treatment plant and the raw water pump stations was completed during the reporting period. Startup and commissioning of the system was completed and SDS began operation in April 2016. Vegetation restoration efforts continued on the pipeline work packages. The 30% design of UWCR was completed.

Colorado Springs Utilities also continued identification of locations for wetland construction to mitigate the 12.0 acres of non-jurisdictional wetlands affected as a result of current and future SDS activities. On previously identified locations, construction was completed for a portion of this mitigation, while construction began on another area. In addition there was on-going effort to track compliance with programmatic permit/approval commitments and construction permit requirements.

## Future SDS Activities

Compliance monitoring will continue for on-going operational activities. Phase II activities include UWCR geotechnical investigations and a minor modification of the NEPA and cultural resource boundaries related to utility relocates associated with reservoir construction. No material changes from the project as described in the 2009 EIS have been made to the UWCR.

# 1.0 Introduction

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## 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:

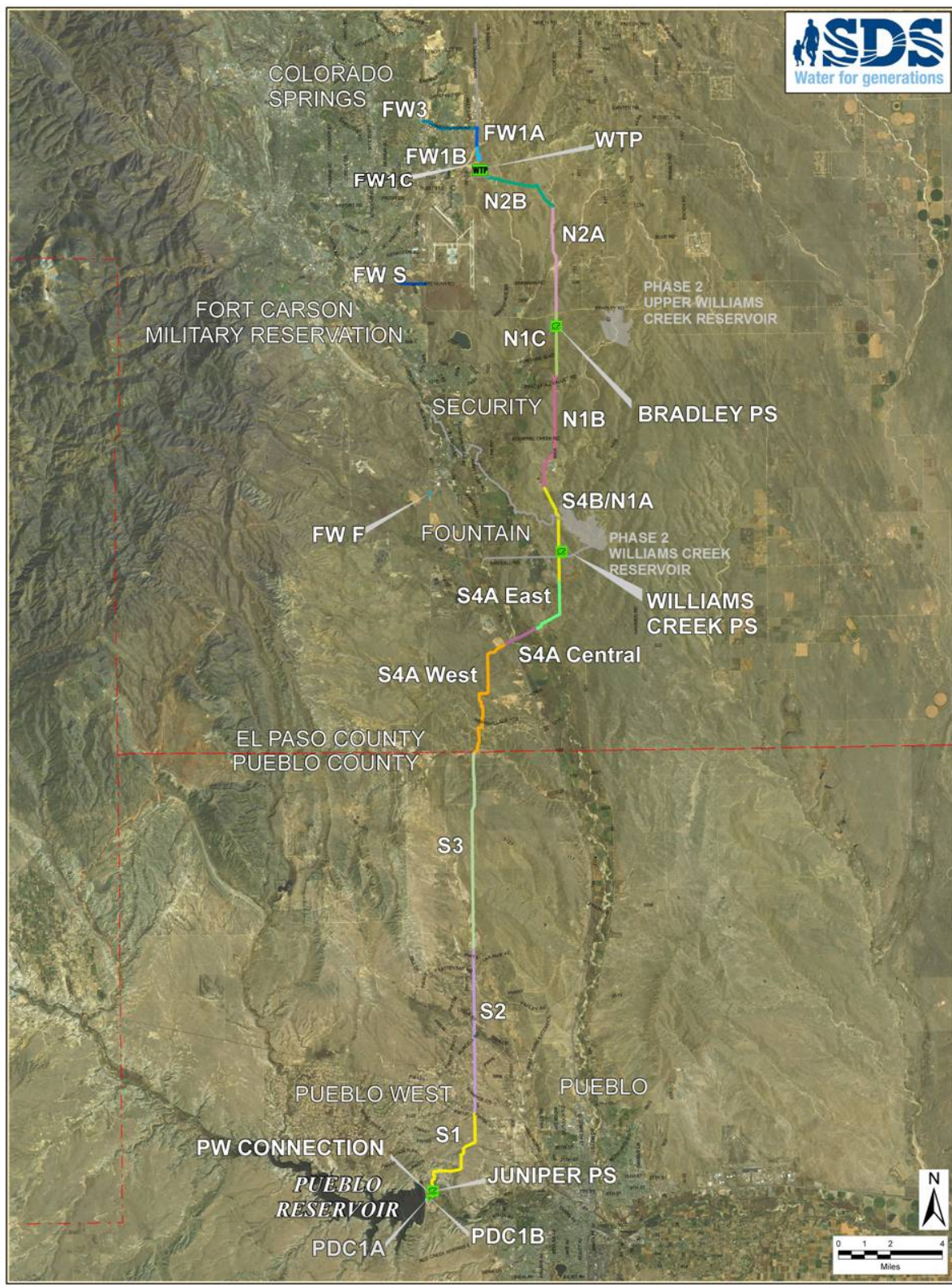
- 45 miles of raw water pipeline (66- and 72-inch diameter)
- Two 78-million-gallon-per-day (mgd) raw water pump stations and one 50-mgd raw water pump station (expandable in Phase 2)
- A water treatment plant (WTP) with a capacity of 50 mgd (expandable in Phase 2)
- Approximately seven miles of finished 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, Upper Williams Creek Reservoir (UWCR)
- Expansion of the 50-mgd raw water pump station and 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, Principal Project Manager  
Leon Young Service Center  
1521 South Hancock Expressway  
MC 1821  
Colorado Springs, CO 80947  
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: Curtis Mitchell, Director of Utilities  
116 S. Main St.  
Fountain, CO 80817  
Phone: (719) 322-2040; Fax: (719) 322-2011  
E-mail: cmitchell@fountaincolorado.org

#### Pueblo West Metropolitan District (Participant)

Contact: Scott Eilert, Utilities Director  
109 E. Industrial Blvd.  
Pueblo West, CO 80017  
Phone: (719) 547-5044; Fax: (719) 547-2833  
E-mail: seilert@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

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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. As construction of Phase I was completed during 2016, this will be the last report to document Phase I construction activities.

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 Annual Report for 2016
- 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 - Geomorphology Monitoring

## 3.0 Summary of SDS Activities Undertaken During the Reporting Period

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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:

### **Pueblo Dam Connection (PDC1A)**

SDS construction activities were completed at the PDC1A in 2013. Activities at Pueblo Dam during the reporting period included maintenance of stormwater best management practices (BMPs), irrigation, vegetation maintenance, and noxious weed mitigation. Vegetation restoration and noxious weed mitigation were completed in 2016 with acceptance by Reclamation and CPW on June 26, 2016. All requirements associated with PDC1A have been fulfilled. The location of PDC1A is shown on Figure 1.

### **PDC1B**

Construction of PDC1B began in August 2013 and was completed in 2014. Activities at Pueblo Dam included maintenance of stormwater BMPs, irrigation, vegetation maintenance, noxious weed mitigation and removal of the irrigation system. Vegetation restoration was completed in 2016 with acceptance by Reclamation and CPW on June 26, 2016. The location of PDC1B is shown on Figure 1.

### **S1 Pipeline**

SDS construction activities on the S1 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2016. Activities at S1 included BMP maintenance, maintenance of the revegetation, and noxious weed mitigation. The location of the S1 Pipeline is shown on Figure 1.

### **S2 Pipeline**

SDS construction activities on the S2 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued through 2016. Activities at S2 included maintenance of BMPs, maintenance of the revegetation, and noxious weed mitigation. The location of the S2 Pipeline is shown on Figure 1.

### **S3 Pipeline**

SDS construction activities on the S3 Pipeline were completed in 2013, while vegetation restoration and maintenance activities continued in 2016. Activities included maintenance of BMPs, seeding, mulching, irrigation, maintenance of the revegetation, and noxious weed mitigation. Colorado Springs Utilities has been performing additional work along S3 in an effort to address damage from rainstorms during the 2014 growing season, and reached a final settlement with the largest property owner on S3 regarding final restoration efforts. The location of the S3 Pipeline is shown on Figure 1.



**S4A East/West**

SDS construction activities on the S4A East and S4A West Pipelines were completed in 2014, while vegetation restoration and maintenance activities continued in 2016. Activities included maintenance of BMPs, vegetation restoration activities including seeding, mulching, irrigation, maintenance of the revegetation, and noxious weed mitigation. The location of the S4A East and West Pipelines are shown on Figure 1.

**S4A Central**

SDS construction activities on the S4A Central Pipeline were completed in 2015, while vegetation restoration and maintenance activities continued in 2016. Activities included maintenance of BMPs, maintenance of the revegetation, and noxious weed mitigation. The location of the S4A Central Pipeline is shown on Figure 1.

**S4B/N1A/N1B**

SDS construction activities on the S4B/N1A/N1B Pipeline were completed in 2013, while vegetation restoration and maintenance activities were completed in 2015. Activities in 2016 included temporary construction fence removal and noxious weed mitigation. The location of the S4B/N1A/N1B Pipeline is shown on Figure 1.

**N1C/N2A**

Construction for the N1C/N2A Pipeline was completed in 2013, while vegetation restoration and maintenance activities continued in 2016. Activities included BMP maintenance, maintenance of the revegetation, and noxious weed mitigation. The location of the N1C/N2A Pipeline is shown on Figure 1.

**N2B**

Construction activities on the N2B Pipeline were completed in 2015, while vegetation restoration and maintenance activities continued in 2016. Activities in 2016 included maintenance of BMPs, seeding, mulching, irrigation, maintenance of the revegetation, fence repair, and noxious weed mitigation. The location of the N2B Pipeline is shown on Figure 1.

**FW1B**

FW1B was completed in 2012, with repair work on the detention pond completed in 2014. Vegetation restoration and maintenance activities continued in 2016. Activities included noxious weed mitigation. The location of the FW1B Pipeline is shown on Figure 1.

**FW1C**

Construction activities on the FW1C Pipeline were completed in 2015, while vegetation restoration and maintenance activities continued in 2016. Activities in 2016 included maintenance of BMPs, maintenance of the revegetation, and noxious weed mitigation. The location of the FW1C Pipeline is shown on Figure 1.

**FW3**

Construction activities were completed in 2014 while revegetation restoration and maintenance activities continued in 2016. Activities included maintenance of the

revegetation and noxious weed mitigation.. The location of the FW3 Pipeline is shown on Figure 1.

### **WTP**

Construction of the SDS WTP was completed in 2016. Activities included electrical work, chemical deliveries, seeding, mulching, planting of trees and shrubs, paving, installation of rock mulch, concrete work, and installation and maintenance of BMPs. There were also startup and commissioning and optimization activities. The location of WTP is shown on Figure 1.

### **RWPS**

Construction of the three raw water pump stations (RWPS), Bradley Pump Station (BPS), Williams Creek Pump Station (WCPS) and Juniper Pump Station (JPS), was completed in 2016. Activities included installation of BMPs, BMP maintenance, startup and commissioning activities. The locations of the three RWPS are shown on Figure 1.

### **UWCR**

30% design for the UWCR was completed in 2016. Geotechnical test pits were excavated and backfilled. The location of the UWCR is shown on Figure 1.

### **Other**

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

- Continued identification of locations for wetlands construction to mitigate the 12.0 acres of non-jurisdictional wetlands that will be permanently impacted as a result of SDS current and future activities. Enhancements to one of the areas that was constructed along Fountain Creek in 2014 were completed in 2016. Another area's design was completed and construction of this mitigation project commenced in November 2016.
- Colorado Springs Utilities, or its selected contractors, continue to obtain a number of construction-related permits associated with integration and mitigation projects. Acquisition and compliance with programmatic permit/approval commitments and construction permit requirements are being tracked through the Environmental Management System (EMS).

The following list identifies other project-related items that were accomplished during the reporting period:

- 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 contains an annual reporting requirement. The report, the final version of which is not due until June 30 of each year, will be prepared by the City of Colorado Springs and submitted to Pueblo County under separate cover. Such report will not be submitted as part of this annual report.



- Sediment Control – As a condition of the IGA, Colorado Springs agreed to contribute, subject to those conditions outlined in the IGA, \$1 million per year for 3 years to the City of Pueblo or its Stormwater Enterprise for the purpose of funding repairs or improvements, including sediment and debris removal, to the levee system on Fountain Creek within the City of Pueblo. The first of the three payments was made on May 31, 2016.
- Revegetation – Cover and diversity evaluations were conducted by the Colorado Natural Heritage Program (CNHP) and by Pueblo County subject matter experts. Preliminary results indicate that the 90% cover requirement has been met on all pipeline segments in Pueblo County. Reports were reviewed by Pueblo County staff and Board of County Commissioners (BOCC) and the County held a series of hearings. On February 1, 2016, the County issued findings of compliance, with accompanying conditions, and released the revegetation bonds. Colorado Springs Utilities will continue to work cooperatively in the future with Pueblo County with respect to the maintenance of the SDS right-of-way and will meet its obligations under the SDS easement documents.

## 4.0 Future SDS Activities

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Anticipated activities for 2017 include:

Land acquisition for UWCR.

Compliance monitoring for operational activities.

NEPA and cultural resource surveys for Phase II construction.

## 5.0 References

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- 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.
- 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.
- 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.
- 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.
- 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 Designed 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 2. 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

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The cells in the implementation column have been color coded to indicate which conditions have been completed (gray), are no longer applicable (gray) or are required now that SDS is operational (blue). This is the last year the cells in gray will be reported.

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Bureau of Reclamation - Record of Decision</b>			
<b>Environmental Commitments</b>			
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
p. 11, ¶2	The Participants must obtain other significant Federal, State, and local permits, approvals, and agreements for the SDS Project.	The programmatic permits for the Southern Delivery System (SDS) are in place. The selected construction contractors are required through the contract documents to submit copies of all permits acquired. The SDS Participants are tracking the permit acquisition progress for each of the work packages as construction activities commence.	No
p. 11, ¶3	A detailed and specific list of environmental commitments and plan for their implementation will emerge from this coordination process.  The timing of this process is important. Coordination of implementation of the environmental commitment plan will occur prior to executing any contracts for the SDS Project.	An Environmental Commitments Plan was completed and submitted to the Bureau of Reclamation on March 18, 2011.	No
<b>Participants' Commitments: General Commitments</b>			
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
p. 12, Bullet 3	Develop and implement a head pressure monitoring program on the Joint Use Manifold to isolate effects attributable to the SDS Project and to mitigate those effects if they were to occur. This program will be developed over a 3-year period from the date that water is first delivered from the Joint Use Manifold for the SDS project. Development of the monitoring program will include involvement of all other Joint Use Manifold users.	This commitment is no longer applicable to SDS. The Joint Use Manifold will not be used with the construction of the Pueblo Dam Connection at the North Outlet Works.	No

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Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 12, Bullet 4	Develop an integrated adaptive management program for the project that will be coordinated with the Participants' existing monitoring programs and the Environmental Management System discussed in Appendix F of the FEIS. The integrated adaptive management program will be finalized prior to executing any contracts for the SDS project.	An Integrated Adaptive Management Plan (IAMP) has been developed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP will be coordinated with the development of the Phase II EMS that Colorado Springs Utilities is developing. The requirements of the IAMP are not effective until SDS is operational.	No
<b>Participants' Commitments: Surface Water</b>			
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, 9, and 10.	Attachments 8 through 10.
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 204.1 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. The Southern Delivery System was under construction during a portion of this reporting period and no flows were introduced to Fountain Creek as a result of this project during such time. During such time as the project was operational, 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.	This requirement is a summary statement of the specific surface water mitigation measures described in the three bullets listed above. 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
<b>Participants' Commitments: Water Quality</b>			
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

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Reporting Requirements		CY2016 Annual Report Information	
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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 approved IAMP 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
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.	This requirement is a summary statement of the specific water quality commitments described in the five bullets listed above. 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



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<b>Participants' Commitments: Geomorphology</b>			
p. 14, Bullet 1	<p>Prepare a geomorphic mitigation plan and secure Reclamation approval prior to executing any contracts for the SDS Project. This plan could include, but is not limited to:</p> <ul style="list-style-type: none"> <li>• Evaluate and consider strategies to remove sediments that reduce the effectiveness of Corps levees located near Fountain Creek at its confluence with the Arkansas River</li> <li>• Evaluate and consider strategies to increase the sinuosity of Fountain Creek at appropriate locations in order to reduce undesirable erosion and sedimentation</li> <li>• Evaluate and consider strategies at appropriate locations along Fountain Creek to reduce undesirable erosion and sedimentation</li> <li>• Select geomorphic mitigation measures for SDS Project effects that are, to the extent practicable, consistent with priority projects identified in the Corps of Engineers' Fountain Creek Watershed Study and the Fountain Creek Corridor Master Plan. Locations where geomorphic mitigation projects could occur include, but are not limited to: <ul style="list-style-type: none"> <li>• Fountain Creek at the Clear Spring Ranch site, directly upstream and downstream of the confluence of Little Fountain Creek and Fountain Creek (approximately 4 miles)</li> <li>• Fountain Creek from upstream of Fountain Boulevard to upstream of Colorado 85/87 at the Sand Creek confluence (approximately 3 miles)</li> </ul> </li> </ul>	<p>A Geomorphic Mitigation Plan was completed and submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. Consistent with the Geomorphic Mitigation Plan, data collection began following the start of project construction. CSU, in conjunction with USGS, has been performing geomorphological monitoring.</p> <p>The Fountain Creek realignment was completed in 2014, which included drop control structures, channel grading, installation of buried rip rap, erosion control blanket, seed, wetlands plugs, willows and cottonwood stakes. Repairs and enhancements to this project were completed in 2016.</p>	No
p. 14, Bullet 2	Complete pre-project geomorphic mitigation, including channel stabilization projects and non-structural options such as conservation easements, before the project is operational. Channel stabilization could include, but is not limited to, increasing stream sinuosity, flattening of steep side slopes, installation of grade control structures and use of buried riprap, erosion blankets, and/or vegetative cover for channel stabilization in areas of high and/or erosive velocities.	The SDS Participants have coordinated extensively with Pueblo County regarding the scope of a Fountain Creek dredging project. On August 30, 2010, an agreement was reached by which the SDS Participants provided approximately \$2.2 million in funding to Pueblo County for the Fountain Creek dredging project. The SDS Participants made this payment to Pueblo County on September 27, 2010.	No
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.	The final design of the Williams Creek Reservoir is anticipated to begin during the period from 2020 to 2025. An energy dissipation structure at the pipe outlet will be incorporated into the design.	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 five bullets listed above. A Geomorphic Mitigation Plan has been completed and will be implemented during the construction and operation of SDS in accordance with this commitment.	No

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Reporting Requirements		CY2016 Annual Report Information	
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<b>Participants' Commitments: Aquatic Life</b>			
p. 15, Bullet 1	Submit a proposed wildlife mitigation plan to the Colorado Wildlife Commission (Wildlife Commission) pursuant to C.R.S. 37-60-122.2. This proposal will include actions the Participants propose to mitigate impacts that the SDS Project may have on fish and wildlife. As required by that statute, the Wildlife Commission will evaluate the probable impact of the project on fish and wildlife and, if the Participants and Wildlife Commission cannot agree upon reasonable mitigation, the Wildlife Commission will make recommendations to the Colorado Water Conservation Board (CWCB) regarding what it believes to be reasonable mitigation actions. If the Participants and the Wildlife Commission agree on a mitigation plan, the Wildlife Commission will submit that agreement to the CWCB, which must adopt the agreement as the state's official position. If the Participants and the Wildlife Commission do not reach agreement on a mitigation plan, the CWCB will consider the plan submitted by the Participants and the recommendations of the Wildlife Commission, which then becomes the State's official position, or submit its own recommendations to the Governor, who will ultimately determine the state's official position on the proposed wildlife mitigation plan.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, was executed May 18, 2010. CSU, in collaboration with Colorado Parks and Wildlife and the Colorado Wildlife Commission drafted an amendment to the SDS Fish and Wildlife Mitigation Plan (Plan) , Section 3.1.2 – Mitigation of Fish Retention Structures. This amendment allows for alternative mitigation efforts than what is currently in the Plan at Lake Henry and Lake Meredith. This amendment was accepted by the Colorado Parks and Wildlife Commission on August 12, 2016.	No
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 3	Evaluate and consider participation in CDOW fish hatchery programs.	The Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife (CDOW), includes a commitment that Colorado Springs Utilities will either construct 7.5 acres of fish rearing ponds for warm water species or provide \$7.5M in funding to CDOW for this construction. CSU made a \$7,500,000 payment in January 2016 to CPW for fish hatchery mitigation in fulfillment of its obligations.	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.	The SDS project did not become operational until late April 2016. Aquatic sampling was performed per the Wildlife Mitigation Plan. USGS has yet to provide 2016 results, but there is no indication of adverse impacts to date as a consequence of the limited project operation.	No

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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.	This requirement is a summary statement of the specific aquatic life commitments described in the four bullets listed above. The SDS Participants has 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
<b>Participants' Commitments: Wetlands, Waters, and Riparian Vegetation</b>			
p. 15, Bullet 1	Design final alignments and facilities to avoid and minimize wetland impacts.	The pipeline alignments and facilities were designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS. The requirements of the 404 permit are included in the construction contract document for each work package, as applicable.	No
p. 15, Bullet 2	Assess alternative construction methods for pipeline crossings (i.e., directional drilling v. open cut) to minimize wetland and stream impacts.	Alternative construction methods for pipeline crossings were considered during the development of the individual 404 permit application for the SDS. The final design of pipeline crossings is in accordance with the information provided in the individual 404 permit where impacts to jurisdictional waters were described.	No
p. 16, Bullet 3	Mitigate impacts to jurisdictional and non-jurisdictional wetlands in areas of temporary, short-term effects such as pipeline crossings, on-site at the place of disturbance with similar wetlands and soils to replace existing wetland functions and values.	The construction contract documents for each work package, as applicable, include the 404 permit Nationwide Permit (NWP) 12 requirements for all temporary, short-term effects to jurisdictional and non-jurisdictional wetlands. The impacts have been mitigated on-site through the implementation of the NWP 12 requirements. Areas with temporary impacts have been re-seeded and to date have shown satisfactory establishment.	No

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Reporting Requirements		CY2016 Annual Report Information	
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p. 16, Bullet 4	Mitigate all unavoidable, permanent impacts to jurisdictional and non-jurisdictional wetlands with compensatory wetlands that replace existing wetland functions and values. Compensatory wetland mitigation will likely occur at the Clear Spring Ranch site on Fountain Creek downstream of the City of Fountain.	Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project construction was initiated in September 2011 and completed in April 2012. Monitoring of this wetland continued in 2014 and performance goals established for the wetland were met. On January 22, 2015, the USACE determined that the wetland mitigation project was established and complete. Some non-jurisdictional wetlands mitigation has been done as part of the Fountain Creek realignment project. The Pinello Ranch Wetland Mitigation design has been completed and construction has begun.	No
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
p. 16, Bullet 6	Evaluate and consider a strategy to increase the sinuosity of Fountain Creek at appropriate locations in order to create wetlands areas.	The SDS Participants considered options to increase the sinuosity of Fountain Creek at the Clear Spring Ranch site in order to create wetland areas in association with the design of the compensatory wetland mitigation project. The Fountain Creek realignment was completed in 2014, which included drop control structures, channel grading, and included the creation of approximately 5.5 acres of wetlands that were planted with wetlands plugs, willows and cottonwood stakes. Enhancements and repairs to this project were completed in 2016.	No
p. 16, Bullet 7	Evaluate and consider the construction and maintenance of new areas of wetlands along Fountain Creek in order to participate in wetlands banking programs. Evaluate and consider cooperation with Colorado agencies to expand such a wetlands creation process.	The USACE verbally denied Colorado Springs Utilities the opportunity of a wetland banking partnership with Colorado agencies, stating that Colorado Springs Utilities cannot share the umbrella of a wetland banking tool. Therefore, no further evaluation of this approach is contemplated.	No

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p. 16, ¶1	Mitigation plans for jurisdictional and non-jurisdictional wetlands will be submitted for approval by the Corps of Engineers and Reclamation, respectively. All design and planning measures for wetlands, waters, and riparian vegetation will be completed before any contracts for the SDS Project.	Mitigation plans for jurisdictional and non-jurisdictional wetlands were submitted for approval by the USACE and reclamation prior to construction of PDC1A. Colorado Springs Utilities procured engineering design services for the compensatory wetland mitigation project at the Clear Spring Ranch site. The SDS Participants presented the final design for Reclamation and USACE review and approval in April 2011. The jurisdictional wetlands mitigation project was constructed in September 2011.	No
p. 16, ¶2	By reviewing the location of wetlands during final design, effects on wetlands can be avoided and minimized. Specifically, the pipeline construction corridors through wetlands will be reduced to the minimum width practicable. Similarly, construction methods that do not involve trenching through a wetland will avoid impacts. Wetlands mitigated in place and off-site will replace affected wetlands on a 1:1 ratio and will provide similar functions and values. The 404 permitting process is ongoing and the final off-site mitigation ration for jurisdictional wetlands for the 404 permit has not yet been determined.	This requirement is a summary statement of the specific wetlands, waters and riparian vegetation commitments described in the seven bullets listed above. The pipeline alignments and facilities have been designed in accordance with the information that was submitted and approved by the USACE with the individual 404 permit application for SDS, as applicable. Wetland impacts were minimized. The requirements of the 404 permit are included into the construction contract document for each work package, as applicable.	No
<b>Participants' Commitments: Vegetation</b>			
p. 16, Bullet 1	Prior to final design, review locations of Needle and Thread grass -Blue Grama Grasslands, high quality shrublands and woodlands, and other areas with desirable vegetation to determine design changes within the current study area that will avoid and minimize impacts.	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys are being incorporated into the construction contract documents as necessary.	No
p. 16, Bullet 2	Replace mature trees (diameter at breast height of 12 inches or greater) within construction areas at a 1:1 ratio with the same or similar native species with available nursery container stock or pole plantings as soon as practicable after construction activities have ended.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 16, Bullet 3	For 1 year after construction, monitor the construction areas to determine if appropriate native vegetation is establishing. If native vegetation is not establishing, the site will be reseeded with appropriate species.	Revegetation efforts have begun or been completed on the all pipeline and facility work packages. All of these work packages were, or are being monitored following established protocols.	No
p. 16, Bullet 4	In the appropriate season prior to construction, survey potential construction areas with known populations of dwarf milkweed and other plant species of concern, to locate areas where impacts can be avoided and minimized to the extent practicable with design changes within the current study area. After identifying populations to avoid, mark populations within or nearby the construction easement as environmentally sensitive so that workers avoid inadvertent impacts.	Pre-construction wildlife and vegetation surveys were completed for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	During construction, wash major construction equipment before it enters the site so that noxious weeds are not spread from other construction sites.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No

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p. 17, Bullet 6	Use certified weed-free mulch after seeding construction areas.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 17, Bullet 7	Reseed construction areas with comparable native vegetation as soon as practicable after disturbance, using seed that does not contain any noxious weed seed.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
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 2016, all 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 nine responses, numerous measures were implemented to minimize potential impacts to plant species and communities of concern and other sensitive vegetation areas. For this item and the previous nine, no concerns have been identified to date.	No
<b>Participants' Commitments: Wildlife</b>			
p. 17, Bullet 1	Submit a proposed wildlife mitigation plan to Colorado Wildlife Commission pursuant to C.R.S. 37-60-1212.2 as described above.	A Wildlife Mitigation Plan was developed in cooperation with the Colorado Division of Wildlife, which was then submitted to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2. The Colorado Wildlife Commission approved the Wildlife Mitigation Plan and the Colorado Water Conservation Board adopted it. A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife was executed May 18, 2010.	No
p. 17, Bullet 2	Promptly revegetate all disturbed areas with native species that provide species diversity and food and cover for large game and wildlife habitat.	This commitment was incorporated into the revegetation contract documents for each of the work packages, as applicable.	No

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p. 17, Bullet 3	Conduct clearance surveys in suitable habitat for state-listed species following standard protocols, as available, prior to construction (e.g., CDOW undated).	The SDS Participants completed pre-construction wildlife and vegetation surveys as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 4	Conduct raptor nest surveys prior to construction and impose seasonal restrictions to surface activity within recommended buffers (generally 1/4 to 1/2 mile) around active raptor nest sites and heron rookeries during construction.	Pre-construction raptor nest and heron rookery surveys were being completed for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 17, Bullet 5	Consult with CDOW and U.S. Fish and Wildlife Services' Migratory Permit Bird Office to develop mitigation for unavoidable loss of raptor nests. Options may include constructing artificial nests in suitable habitat or enhancing prey habitat.	The following protocol identified in the Fish and Wildlife Plan was used during construction of SDS: If a nest was detected during the pre-construction raptor nest survey, Colorado Springs Utilities coordinated with Colorado Division of Wildlife and USFWS to develop mitigation for unavoidable raptor nest loss. A nest was identified in one of the pipeline alignments and CDOW was consulted as a lead agency. A raptor nest mitigation plan was submitted and approved and Colorado Springs Utilities mitigated the nest. A nest was installed at Clear Spring Ranch.	No
p. 17, Bullet 6	Develop construction schedules to avoid impacts to nesting migratory birds. If construction is scheduled to occur during the nesting season (April 1 through August 31) in areas where migratory birds may nest, a qualified biologist will conduct a nesting bird survey prior to the commencement of construction activities to determine the presence of migratory birds and their nests. If an active nest is detected, a buffer zone between the nest and the limit of construction will be flagged and avoided during the nesting season, or construction will be scheduled outside of the nesting season.	The following protocol was used during construction of SDS: If an active nest was detected during the pre-construction raptor nest survey, Colorado Springs Utilities coordinated with Colorado Division of Wildlife and the construction contractor to ensure a buffer zone between the nest and the limit of construction was identified and the area avoided during the nesting season, or construction was scheduled outside of the nesting season.	No
p. 18, Bullet 7	Conduct pre-construction surveys for swift fox den sites within appropriate habitat along the pipeline corridor and proposed reservoir sites. Avoid surface disturbance within 1/4 mile of active den sites while young are den-dependent (March 15 -June 15).	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No
p. 18, Bullet 8	Restrict pesticides for rodent control within swift fox overall range.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 9	Mitigate impacts to state-listed amphibian species by avoiding, minimizing, and mitigating wetland effects as described above.	The 404 Individual Permit, the 404 Compensatory Wetland Mitigation Plan and the Fish and Wildlife Mitigation Plan will be followed.	No
p. 18, Bullet 10	Impose seasonal restrictions on construction to avoid sensitive large game winter habitat (from first large snowfall to summer green-up).	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. The results of these surveys were incorporated into the construction contract documents as necessary.	No



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p. 18, Bullet 11	Install wildlife crossovers (trench plugs) during pipeline construction with ramps on each side at a maximum of 1/4 mile intervals and at well-defined game trails.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 12	Create additional nesting habitat or nest boxes in nearby trees for the Lewis' woodpecker when nest trees are destroyed.	Pre-construction wildlife and vegetation surveys were completed as part of the final design for each of the work packages. No Lewis' woodpecker nests were identified.	No
p. 18, ¶1	By replacing vegetation including structural diversity, the long-term effects on wildlife will be reduced by allowing wildlife to return to disturbed areas. Pre-construction surveys will identify wildlife use at the time of construction and allow for planning for avoidance and minimization. Imposing seasonal and/or daily restrictions on construction will enable wildlife to use important habitat, especially during breeding and other critical periods. Wildlife crossovers installed within the pipeline trench will facilitate wildlife passage and provide escape routes for wildlife trapped within the trench, thereby reducing mortality.	As described in the previous twelve responses, numerous measures were implemented to minimize potential impacts to wildlife. These measures were incorporated in the construction contract documents. Measures were implemented and some measures, such as ramps in the trenches were placed at shorter intervals than required.	No
<b>Participants' Commitments: Recreation</b>			
p. 18, Bullet 1	During short-term construction activities that require trail closures of developed recreational trails, designate a safe and reasonable detour around the project site. Post signs directing trail users.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 2	Work with the local municipality to establish alternate trails with consistent width, surfacing, and signage.	Colorado Springs Utilities coordinated with affected local municipalities as needed to identify temporary alternate trails to be used or constructed during construction.	No
p. 18, Bullet 3	Within developed parks with temporary effects, commit to full reclamation of the impact area by replacing turf, irrigation systems, and other facilities that could be affected. Provide follow-up monitoring and maintenance for 1 year to ensure that reclamation efforts are successful.	There were no temporary effects to developed parks as a result of SDS construction this year. This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 18, Bullet 4	In developed park areas with permanent, above ground SDS Project facilities, reconfigure park facilities that will be directly affected and visually screen SDS Project facilities from other park uses with vegetation, berming or attractive fencing.	Construction has been completed on the Juniper Pump Station. Colorado State Parks was a reviewing agency on the design. Fencing was erected to screen construction operations.	No
p. 18, Bullet 5	Seek opportunities to enhance angling, boating, or other recreation opportunities at Lake Henry, Lake Meredith, and Holbrook Reservoir so that they are less vulnerable to water level fluctuations. Work with the CDOW to identify priority projects and include them in a proposed wildlife mitigation plan to the Colorado Wildlife Commission pursuant to C.R.S. 37-60-122.2 as above.	A Memorandum of Agreement between the SDS Participants and the Colorado Department of Natural Resources, on behalf of the Colorado Division of Wildlife, which adopted the Fish and Wildlife Mitigation Plan, was executed May 18, 2010 and was amended on August 12, 2016.	No
p. 19, ¶1	The proposed mitigation measures will reduce the impact of project facility construction on trail users. They will also reduce the short- and long-term impacts of project facilities on park infrastructure, vegetation, aesthetics, and recreation experiences. Collaboration with the CDOW to enhance fishing and boating opportunities may result in such improvements to recreation at Lake Henry, Lake Meredith, and Holbrook Reservoir.	As described in the previous five responses, numerous measures are being implemented to minimize potential impacts to recreation opportunities. For this item and the previous five, no concerns have been identified to date.	No



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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Socioeconomics and Land Use</b>			
p. 19, Bullet 1	Acquire properties and easements through voluntary, willing participant agreements to the maximum extent practicable.	Colorado Springs coordinated with individual landowners to acquire properties and easements through voluntary negotiations to the maximum extent practicable.	No
p. 19, Bullet 2	Develop a construction management plan to outline best management practices to minimize impacts to surrounding properties and submit plan to Reclamation for approval prior to construction.	A Socioeconomic Construction Management Plan was completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011.	No
p. 19, ¶1	Adverse short-term effects on landowners with parcels that will contain SDS features will be offset through mutually agreed upon compensation. The land use mitigation measures will minimize disturbances to properties near the project during construction or minimize land use changes and conflicts.	A Socioeconomic Construction Management Plan was completed and was submitted to the Bureau of Reclamation on March 15, 2011. The Bureau of Reclamation approved this plan on April 26, 2011. The plan provided for appropriate compensation and mitigation.	No
<b>Participants' Commitments: Cultural Resources</b>			
p. 19, Bullet 1	Comply with the requirements of the Programmatic Agreement between Reclamation, the ACHP, Colorado Springs, and the Colorado SHPO (Appendix I of the FEIS).	The requirements of the Programmatic Agreement were referenced or included in the construction contract documents for each work package.	No
p. 19, ¶1	Development of the project alternatives will result in impacts to non-renewable historic properties. As a result, it will be necessary to implement a mitigation plan in an effort to resolve any adverse effects. Mitigation may be accomplished through avoidance, implementation of protective measures, or data recovery. If avoidance and preservation are not possible, a data recovery plan may be used to collect and analyze significant information, thus preserving that information. Data collection as a mitigation measure should only be implemented when other means to protect or preserve historic properties have been exhausted or are not feasible. Within the data recovery plan, specific research problems concerning scientific, humanistic, and cultural concerns will be developed. Research also will focus on problems in prehistoric and historic archaeological methods and theory. Ultimately, the data collected likely will provide information regarding the cultures that have occupied the area in the past.	Colorado Springs Utilities prepared a Treatment Plan which addressed how mitigation was determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
<b>Participants' Commitments: Indian Trust Assets</b>			
p. 19, ¶1	Continue consultation with Native American Tribes in accordance with the Programmatic Agreement. Under the Agreement, Reclamation and the SDS Participants will coordinate with the tribes to identify and mitigate impacts to any traditional cultural properties or resources.	The requirements of the Programmatic Agreement were referenced or included in the construction contract documents for each work package.	No
<b>Participants' Commitments: Noise and Vibration</b>			
p. 19, Bullet 1	Construction equipment used by contractors shall function as designed and shall conform to applicable noise emission standards.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 19, Bullet 2	Generally adhere to project work hour restrictions (7 a.m. to 7 p.m.) within 500 feet of residences, hospitals, schools, churches, and libraries. Work hours may need to be extended from time to time in order to expeditiously restore traffic flow or public access.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 20, Bullet 3	Restrict access to construction areas so that the public could not be in close proximity to loud equipment or blasting.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	House project operating equipment (e.g. pump stations) in structures designed to minimize radiated noise outside the structure, and will meet local noise ordinance requirements.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	By following existing standards, restricting work hours and access to construction areas, and insulating new noise within structures, noise effects will be minimized by maintaining acceptable noise levels and limiting the number of people exposed to increased noise levels.	As described in the previous four responses, these commitments were incorporated into the construction contract documents to minimize potential construction and operation impacts due to noise and vibration. SDS inspectors regularly visit all active sites.	No
<b>Participants' Commitments: Visual Resources</b>			
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 Upper Williams Creek and Williams Creek Reservoirs did not begin during this reporting period.	No
p. 20, Bullet 2	Revegetate and/or landscape with plants, all disturbances associated with the construction of all facilities.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Restore as many existing grades as practicable following pipeline excavations.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 4	Enclose pump stations and well equipment in structures matching the architectural characteristics of the surrounding structures.	Colorado Springs Utilities coordinated with the Bureau of Reclamation and Pueblo County representatives regarding the proposed architecture for the Juniper Pump Station located at Pueblo Reservoir. On September 20, 2012 and November 1, 2012, Colorado Springs Utilities met with representatives of Pueblo County, Colorado State Parks and the Bureau of Reclamation to present the final architectural and landscape plans for the Juniper Pump Station. On November 8, 2012, Colorado Springs Utilities met with Pueblo County to present the final architectural design of the Juniper Pump Station. On November 13, 2012 the Pueblo County Board of County Commissioners(BOCC) passed and adopted Pueblo County Resolution No. 12-270 appointing Pueblo County's Director of Planning and Development, Joan Armstrong, to be Pueblo County's representative to participate in the final selection of the architecture and landscaping for the Juniper Pump Station along with representatives of Colorado State Parks and the Bureau of Reclamation. The resolution also approved the final stage of the design consisting principally of the exterior treatments and architecture of the proposed pump station, including the colors and building materials to be used, and the landscaping immediately around the proposed structure.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 20, Bullet 5	Construct powerlines with non-specular (not shiny) wire, non-reflective and opaque insulators, and light-colored, non-reflective finished poles.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 6	Reclaim construction access roads and staging areas by restoring existing grade and revegetating the area of disturbance.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 7	Apply water with standard construction practices to control airborne fugitive dust within construction areas.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 8	Install baffles on construction lighting fixtures to direct light onto the construction activity only in locations where safety is a concern, scenic quality will be affected, or near occupied homes and businesses.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, ¶1	Restoring existing grades, revegetating disturbed areas, using architectural styles consistent with the area, and designing powerlines to have low visibility will minimize the visual contrast between the surrounding areas and will reduce the visibility of disturbance or new structures from observation points. Reducing airborne fugitive dust and construction lighting will reduce the area affected during construction.	As described in the previous eight responses, these requirements were incorporated into the designs and construction contract documents for each work package to minimize potential impacts to visual resources. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Traffic</b>			
p. 20, Bullet 1	Use trenchless construction to the extent practicable when construction features cross railroad lines, state highways, county roadways in densely populated areas, and major city roadways in densely populated areas.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 2	Prepare traffic control plans for approval by state and local traffic authorities and followed by contractors during construction.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 20, Bullet 3	Construct traffic signage, signals, acceleration, and deceleration lanes as directed by state and local traffic authorities for access to reservoir sites, treatment plants, and pump stations.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Construct improvements to existing access roads or construction of temporary alternate access roads to reservoir sites, treatment plants, and pump stations as directed by state and local traffic officials.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Modify or reconstruct bridges when the load limits are not adequate for construction of the SDS Project and other access routes are not reasonable.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	When implemented, these recommendations will mitigate potential adverse effects on traffic by minimizing delays and promoting traffic safety.	As described in the previous five responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential construction and operations impacts to traffic flow patterns. For this item and the previous five, no concerns have been identified to date.	No
<b>Participants' Commitments: Soils</b>			
p. 21, Bullet 1	Minimize the area of disturbance to defined construction limits and limit the time bare soil is exposed.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Contain soils within the construction area through temporary sediment control measures such as silt fences, sediment logs, trenches, and sediment traps.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No

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Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
p. 21, Bullet 3	Remove woody vegetation prior to topsoil salvage and, to the extent possible, salvage topsoil within tree stump roots.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 4	Use topsoil salvage methods including windrowing topsoil at the limits of construction and pulling the soil back on slopes during reclamation.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 5	Apply topsoil, soil amendments, fertilizers, and mulches as appropriate, and seed selectively during favorable plant establishment climate conditions to match site conditions and revegetation goals.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 6	To the extent practicable, avoid irrigated lands during final design.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 7	To the extent practicable, allow continued use of lands crossed by project facilities after construction.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 8	Where the proposed pipeline crosses prime farmland soils, develop a soils handling plan that separates the top 6 inches and the soils between 6 and 36 inches for subsequent reclamation.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, ¶1	Proposed mitigation measures will reduce short-term and long-term losses of soil and soil productivity. Redistribution of topsoil to soil-deficient areas will increase soil productivity in those areas. Topsoil, soil amendments, fertilizers, and mulches will increase productivity and help establish cultivated vegetation and crops. A soils handling plan for prime farmland soils will ensure high quality topsoil is preserved and distributed properly.	As described in the previous eight responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential soil erosion and loss during construction. For this item and the previous eight, no concerns have been identified to date.	No
<b>Participants' Commitments: Air Quality</b>			
p. 21, Bullet 1	Develop and implement standard control practices, such as watering, to minimize particulate and dust emissions from construction work sites as specified in the fugitive dust control plan.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 2	Ensure construction equipment (especially diesel equipment) meets opacity standards for operating emissions.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 21, Bullet 3	Promptly revegetate disturbed areas.	The SDS Participants incorporated this commitment into the construction contract documents for each of the work packages, as applicable. For Pueblo County work packages, the revegetation contractor coordinated with the construction contractor to begin revegetation efforts following substantial completion of each construction project. For El Paso County Work Packages, each construction contractor had a revegetation sub-contractor perform the work. Revegetation efforts have begun or been completed on all pipeline and facility work packages.	No
p. 21, ¶1	The proposed mitigation measures will reduce both short-term and long-term effects on air quality by following standards on construction equipment and minimizing fugitive dust.	As described in the previous three responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential air quality impacts during construction. For this item and the previous three, no concerns have been identified to date.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Participants' Commitments: Hazardous Materials</b>			
p. 22, Bullet 1	Remove solid waste and properly dispose of at a permitted solid waste disposal facility prior to construction of project facilities at the site.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable. Contractors met all solid waste and disposal requirements.	No
p. 22, Bullet 2	Inspect the ground surface beneath the solid waste for evidence of hazardous material or petroleum product spills such as soil staining and unusual odors or colors.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 3	If evidence of a spill or spills is noted, delineate the extent of the spill by laboratory analysis and excavate any contaminated soils and properly dispose of at a permitted waste disposal facility.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, Bullet 4	If soil and/or ground water contamination is encountered during construction of project facilities, implement mitigation procedures to minimize the risk to construction workers and to the future operation of the project.	This commitment was incorporated into the construction contract documents for each of the work packages, as applicable.	No
p. 22, ¶1	The proposed mitigation measures will identify areas of potential contamination from hazardous materials and will remediate the soil and ground water if any contamination was identified.	As described in the previous four responses, these commitments were incorporated into the construction contract documents for each work package to minimize potential for a hazardous materials spill. For this item and the previous four, no concerns have been identified to date.	No
<b>El Paso County - Location Approvals</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	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 Approval of Locations, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County conditions of approval	Compliance with the conditions of approval has been documented through the Site Development Plan processes for each work package. The Site Development Plan was approved for finished water pipeline segment FW1A on September 8, 2010, for the S4B/N1A pipeline on April 27, 2011, for the N1B pipeline on July 18, 2011, the Williams Creek Pump Station on July 18, 2011, the FW1B pipeline on August 17, 2011, the Bradley Pump Station Power Supply on October 11, 2012, the S4A East and West Pipeline on October 18, 2012, the N1C pipeline on February 28, 2013, the Williams Creek Pump Station Power Supply on March 1, 2013, the N2A pipeline on June 5, 2013, and the Bradley Pump Station on July 16, 2013.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	Integrated Adaptive Management Plan	The Integrated Adaptive Management Plan (IAMP) was completed and was submitted to the Bureau of Reclamation on March 18, 2011. The requirements of the IAMP were coordinated with the development of the Phase II EMS that Colorado Springs Utilities developed. The plans will be implemented during the operation of the SDS project in accordance with this commitment.	No
Annual Report Requirement, Sub-Bullet c	Dust control report	The construction contract documents required the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and implement dust control measures as necessary to comply with the APEN requirements. Dust was monitored during routine inspections and only exceptions were reported to the County.	No
Annual Report Requirement, Sub-Bullet d	Weed control report	Noxious weed surveys were completed as part of the final design and Site Development Plan processes. A noxious weed management plan was provided to El Paso County as part of the Site Development Plan process. The noxious weed management plan requirements were incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet e	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys were completed as part of the Site Development Plan process. Habitat and species have been identified and proposed mitigation measures are identified in the wildlife survey report as necessary. Required mitigation measures were initiated prior to construction. The construction contract documents provided direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet f	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys were completed for the NEPA corridor. In addition, a process was initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addressed how mitigation was determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet g	Groundwater and surface water monitoring report addressing water quality and quantity	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.	Attachment 3 - Water Quality Monitoring Data

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet h	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts have begun or have concluded on all pipeline and facility work packages. A third party contractor conducted surveys and provided reports on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet i	Complaint log and how the issues were resolved	Colorado Springs Utilities is tracking complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet j	Emergency response log and how the issues were resolved	Colorado Springs Utilities is tracking emergency response actions through an emergency response log which includes a description of the actions taken to resolve the issue. See Attachment 5 for the Emergency Response Log.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet k	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours were incorporated into the construction contract documents for each of the work packages, as applicable. The contractor received approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities tracked work which occurred during non-typical work hours through a log which includes a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours
<b>El Paso County - 1041 Permits</b>			
Final Resolution, Annual Report Requirement	This approval of location shall be subject to annual reporting by the applicant on January 31 annually and review by Development Services Department to determine compliance with all applicable requirements and standards of the El Paso County regulations and the conditions and safeguards imposed upon the approval of location by the Planning Commission. Upon completion of each periodic review, the Development Services Department shall forward its report and any recommendations to the Planning Commission, Board of County Commissioners and the holder of the approval of location. The annual report shall include:	This Permit Compliance Annual Report is being prepared to demonstrate the progress 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 Approval of Locations, El Paso County 1041 Permits, the CDPHE 401 Water Quality Certification and the Fountain Creek Watershed, Flood Control and Greenway District approval.	No
Annual Report Requirement, Sub-Bullet a	Evaluation of compliance with El Paso County permit conditions	Compliance with the permit conditions is being documented through the Site Development Plan processes for each work package that received a 1041 Permit. The Site Development Plan was approved for finished water pipeline segment FW1C on January 24, 2014, for finished water pipeline segment FW3 on January 29, 2014, and for the S4A Central pipeline on February 18, 2014.	No



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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet b	State Inspection Reports	There were no state inspections at FW1C, FW3, or S4A Central during the reporting period.	No
Annual Report Requirement, Sub-Bullet c	Federal Inspection Reports	There were no federal inspections at FW1C, FW3, or S4A Central during the reporting period.	No
Annual Report Requirement, Sub-Bullet d	Dust control report	The construction contract documents required the contractor to obtain an Air Pollution Emissions Notice (APEN) through the Colorado Department of Public Health & Environment and to implement dust control measures as necessary to comply with the APEN requirements. Dust was monitored during routine inspections and only exceptions were reported to the County.	No
Annual Report Requirement, Sub-Bullet e	Weed control report	Noxious weed surveys were completed as part of the final design and Site Development Plan processes. A noxious weed management plan was provided to El Paso County as part of the Site Development Plan. The noxious weed management plan requirements were incorporated into the construction contract documents for each of the work packages.	No
Annual Report Requirement, Sub-Bullet f	Wildlife management report (any occurrences or actions regarding compliance with State or federal requirements)	Wildlife surveys were completed as part of the Site Development Plan process. Habitat and species were identified and proposed mitigation measures incorporated into the wildlife survey report as necessary. Required mitigation measures were initiated prior to construction. The construction contract documents provided direction to the contractor regarding how to handle sensitive wildlife species habitat that could be encountered during construction.	No
Annual Report Requirement, Sub-Bullet g	Cultural resources report (any occurrences or actions regarding compliance with State or federal requirements)	Class III cultural resource surveys were completed for the NEPA corridor. In addition, a process was initiated with Reclamation and SHPO to address cultural resource impacts as a result of construction of SDS in compliance with the Programmatic Agreement. Colorado Springs Utilities prepared a Treatment Plan which addressed how mitigation was determined for each eligible or potentially eligible cultural resource site. The Treatment Plan was executed in June 2011.	No
Annual Report Requirement, Sub-Bullet h	Groundwater and surface water monitoring report addressing water quality and quantity	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.	Attachment 3 - Water Quality Monitoring Data



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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Annual Report Requirement, Sub-Bullet i	Vegetation monitoring report (status of revegetation efforts)	Revegetation efforts continued for the FW3, FW1C and S4A Central work packages. A contractor will conduct surveys and provide reports in the coming year on the revegetation coverage and diversity.	No
Annual Report Requirement, Sub-Bullet j	Complaint log and how the issues were resolved	Colorado Springs Utilities tracked complaints received through a complaints log which includes a description of the follow-up activities that occurred to address or resolve the complaint. See Attachment 4 for the Complaint Log.	Attachment 4 - Complaint Log
Annual Report Requirement, Sub-Bullet k	Emergency response log and how the issues were resolved	Colorado Springs Utilities tracked emergency response actions through an emergency response log which included a description of the actions taken to resolve the issue. There were no emergency responses required during the reporting period.	Attachment 5 - Emergency Response Log
Annual Report Requirement, Sub-Bullet l	Log of when work occurred during non-typical work hours (work outside the hours of 7:00 am and 6:00 pm) and rationale by which the work was deemed necessary	The typical work hours were incorporated into the construction contract documents for each of the work packages, as applicable. The contractor received approval to work during non-typical work hours from the El Paso County Department of Transportation prior to the activity. Colorado Springs Utilities tracked work which occurs during non-typical work hours through a log which included a rationale by which the work was deemed necessary. See Attachment 6 for the Log of Work Occurring During Non-Typical Work Hours.	Attachment 6 - Log of Work Occurring During Non-Typical Work Hours

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
<b>Pueblo County - 1041 permit</b>			
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. Colorado Springs Utilities prepared a report documenting 2010 expenditures which 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 is being prepared and will be submitted to Pueblo County with this Annual Report on or before January 31, 2017.	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2016
25. Compliance Monitoring and Reporting, p. 18	Applicant shall monitor and periodically report to Pueblo County on its compliance with this Permit. During project construction in Pueblo County, Applicant will submit a quarterly report to Pueblo County summarizing the activities during that period, forecasting activities scheduled for the upcoming period, and addressing compliance with the terms and conditions of the Permit. After commencing deliveries of water through the SDS pipeline, Applicant shall submit annual reports to Pueblo County summarizing its activities related to the SDS Project, the Permit, and addressing compliance with the terms and conditions of the Permit. Pueblo County may, at its discretion, hold public reviews of the reports and Permit compliance, including hearings in accordance with its regulations. <i>See Mitigation Appendix ENF-1.</i>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2015, 1st Quarter 2016, and 2nd Quarter 2016 during this reporting period. As construction activities were concluded in 2nd Quarter 2016, the last quarterly construction report was submitted in July 2016. This report will satisfy the requirement for the annual report following delivery of water through the SDS pipeline.	No

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Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
Mitigation Appendix ENF-1, Project Detail, Item 1, p. 22 of 28	<p>1. Submit a quarterly report during project construction in Pueblo County that will provide a summary of activities related to the Conditions of the permit. The report will summarize the activities occurring in the reporting period, and a forecast of activities planned in the upcoming period. Contents of the report will include (as applicable):</p> <ul style="list-style-type: none"> <li>a. Safety incident log.</li> <li>b. Citizen call log.</li> <li>c. Description of mitigation and restoration activities (i.e., quantity and location of repaired road surface, reseeding, etc.).</li> <li>d. List of non-compliance issues by contractors (silt releases, work hour infractions, fines and penalties).</li> <li>e. Sustainable construction practices employed.</li> <li>f. Schedule and key milestones met and forecast.</li> <li>g. Location and extent of excavations.</li> <li>h. Instances of work outside normal work hours, except maintenance activities.</li> <li>i. Status of site maintenance, security and access control to properties.</li> <li>j. Location and extent of dewatering activities.</li> <li>k. Status of other required permits, including compliance with the programmatic agreement to protect cultural resources.</li> <li>l. Dust monitoring summary.</li> <li>m. Status of drainage and erosion control measures.</li> <li>n. Status of plant and wildlife protection requirements.</li> <li>o. Status of measures to protect surface and groundwater flows.</li> <li>p. Status of livestock protection measures.</li> <li>q. Status of Clear Spring Ranch project.</li> <li>r. Status of pump station architectural review.</li> <li>s. Status of land acquisition.</li> <li>t. Status of compliance with requirements concerning Pueblo County Roads.</li> <li>u. Status of dredging at the levees on Fountain Creek in Pueblo.</li> <li>v. Status of reclamation and bonding for disturbed areas.</li> <li>w. Status of the written MOU for construction and use of the North River Outlet Works.</li> <li>x. Acceptance of the design of structures at Lake Pueblo Dam by the BOR.</li> <li>y. Status of conservation strategies, local reuse, stormwater management, drainage regulations and enforcement.</li> <li>z. Status of stormwater and wastewater system improvements per permit commitments.</li> <li>aa. Status of NEPA, ROD, contract negotiations with BOR and notice of NEPA-required mitigation and any project changes resulting from contract negotiations.</li> <li>bb. Status of payments in lieu of property taxes.</li> <li>cc. Copies of the annual reports on the SDS Project submitted to Reclamation.</li> </ul>	Colorado Springs Utilities has prepared and submitted a quarterly report for 4th Quarter 2015, 1st Quarter 2016, and 2nd Quarter 2016 during this reporting period. As construction activities were concluded in 2nd Quarter 2016, the last quarterly construction report was submitted in July 2016. Copies of the quarterly reports were provided to the BOR.	No

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
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 Participants in located in Attachment 8.	Attachment 8 - Summary of Storage, Diversion, Delivery of Water in Pueblo County
	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 Participants in located in Attachment 9.	Attachment 9 - Summary of Participants' 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 Participants 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.	Attachment 3 - Water Quality Monitoring Data
	f. Geomorphology monitoring.	Data is not yet available for post-construction reporting period. USGS will provide data once quality assurance review is complete. Data will be provided in the next Annual Report.	Attachment 11 - Geomorphology Monitoring

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 Annual Report Information	
Reference	Permit or Approval Document Requirement	Implementation Progress	Attachment Provided
	g. Status of adaptive management plans on Fountain Creek.	<p>The Monitoring Plan and Integrated Adaptive Management Plan were submitted to the Bureau of Reclamation on March 18, 2011 and accepted by Reclamation on March 24, 2011. The Geomorphic Mitigation Plan was submitted to Reclamation on March 15, 2011 and approved April 26, 2011.</p> <p>Colorado Springs Utilities participates in a Joint Funding Agreement with the USGS regarding implementation of the Monitoring Plan.</p>	No
	h. Status of payments into the Fountain Creek monetary mitigation fund.	<p>The first installment of \$100,000 was paid via Electronic Funds Transfer (EFT) on September 4, 2009. The EFT identification number for this transaction is 17350. The second installment of \$100,000 was paid via EFT on June 29, 2010. The EFT identification number for this transaction is 21087. The third installment of \$100,000 was paid via EFT on June 28, 2011. The EFT identification number for this transaction is 26356. A further mutually agreed upon advance of \$300,000 was made to the Fountain Creek District in 2009. An understanding between SDS and Pueblo County has been finalized relative to the indexing calculation method. The first of the remaining 5 payments, in the amount of \$9,578,817, was paid to the Fountainn Creek District on May 19, 2016.</p>	No
	i. Status of expenditures for wastewater system improvements for Participants (and third party users in the Fountain Creek basin) per Permit Conditions.	<p>The report for 2016 is being prepared and will be submitted to Pueblo County with this Annual Report on or before January 31, 2017.</p>	Attachment 7 - Expenditures for Wastewater System Improvements Annual Report for 2016
	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).	<p>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. Flow management operations are shown in Attachments 8, 9, and 10. No releases were necessary in 2016.</p>	Attachments 8 through 10.

ATTACHMENT 1

Annual Implementation Progress Matrix

Reporting Requirements		CY2016 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 continues to evaluate conservation and additional reuse in its Integrated Water Resources Plan, which is currently being updated.	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.	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
<b>CDPHE - 401 Water Quality Certification</b>			
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 for Calendar Year 2016 has been prepared to address the annual reporting requirements for all of the major programmatic permits. Colorado Springs Utilities will post this annual report to the SDS website (sdswater.org) where it can be accessed by all interested regulatory agencies or members of the public. Pertinent raw data and reports are being submitted as part of this annual report, of which CDPHE is a recipient.	No
<b>Fountain Creek WFCGD - Resolution 2010-01</b>			
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

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

**ATTACHMENT 2**

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: 2015-10-01 -> 2016-09-30) Period-of-record for statistical calculation restricted by user												Annual Average Flow	Long-Term Average Annual Simulated Streamflow
	2015			2016										
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		
Mean of Monthly Discharge	185.7	177.6	151.0	171.5	188.0	172.9	223.6	307.8	276.8	194.0	257.3	142.8	204.1	253.0

## Notes:

1. No incomplete data has been used for the statistical calculations shown in the table.
2. Data in this table is from USGS National Water Information System: Web Interface ([waterdata.usgs.gov/nwis/monthly](http://waterdata.usgs.gov/nwis/monthly)).
3. The annual average is computed from the monthly mean data published by the U.S. Geological Survey.
4. The long-term average annual simulated streamflow for the preferred alternative (Alt 2) was taken from Table 33 of the FEIS.
5. Data is provisional until it goes through the USGS quality assurance process.



# Water Quality Monitoring Data

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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 for Middle Arkansas River Basin segment 3, Lower Arkansas River Basin segment 1a, and Fountain Creek Basin segments 1a, 2a, 2b, and 6 standards.

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			4.6
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20151016	19	618	9.8	8.3	312	7.2	1	310	>2400		<0.02		0.12
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20151102	17	608	10	8.3	316	6.6	1	160	>2400		<0.02		0.13
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20151208	19	609	10.6	8.2	320	3.3	3	280	1700		<0.02		0.15
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160107	19	602	10.6	8.2	320	1.7	3	200	1700		<0.02		0.19
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160204	E15	611	11.7	8	355	0	2	120	820		0.03		0.22
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160309	11	606	10.4	8.3	367	5.5	4.3	75	910		<0.02		0.2
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160408	21	613	10.3	7.8	298	4.6	6.7	180	1700		<0.02		0.16
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160503	42	614	10.1	7.9	265	5.9	16	72	980		<0.02		0.21
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160607	36	610	8.9	8.1	227	10.4	14	170	>2400		0.06		0.15
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160707	18	610	8.2	8.0	275	13.8	13	370	7700		<0.02		0.13
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160801	11	612	8.1	8.0	339	15.7	3.4	1600	8700		<0.02		0.16
FOUNTAIN CREEK NEAR COLORADO SPRINGS, CO.	20160908	29	609	8.5	8.0	207	11.8	11	920	>2400		<0.02		0
Standards (if applicable)									126		See Note			4.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20151016	60	622	9.1	8.5	736	12	73	340	1000		<0.02		2.9
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20151104	54	607	9.2	8.5	721	11.1	56	170	>2400		0.03		3
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20151208	53	612	10.2	8.4	808	6	63	120	2400		0.21		3
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160112	40	616	11.2	8.2	960	2.5	13	28	280		0.18		3.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160209	68	619	9.7	8.3	1020	8.4	44	980	2400		0.08		2.2
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160308	37	610	10.7	8.3	675	5.0	22	21	1400		0.04		2.8
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160405	79	612	9.4	8.2	576	9.1	140	210	>2400		<0.02		1.9
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160502	E128	616	8.9	8.2	449	12.1	53	100	>2400		0.03		1.4
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160606	87	615	7.2	8.2	493	21.6		94	4400		0.26		1.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160706	65	613	7.2	8.3	559	23.1	34	360	11000		0.25		1.6
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160802	37	618	7.0	8.4	633	26.1	16	320	>24000		0.02		2
MONUMENT CREEK AT BIJOU ST. AT COLO. SPRINGS, CO	20160907	52	614	7.5	8.4	694	20.8	28	500	17000		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20151014	69	619	8.7	8.5	753	14.4	25	240	>2400		<0.02		3.1
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20151104	53	609	9.8	8.4	718	8.1	7	83	2000		<0.02		2.8
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20151203	60	620	11.3	8	871	2.2	6	50	2400		0.04		3.2
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160112	75	617	11.6	8.2	797	1.8	19	17	460		0.08		2.9
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160210	69	618	11.6	8	1010	1.5	23	88	1000		0.04		2.3
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160308	55	612	10.6	8.3	675	6.6	17	13	650		0.02		2.6
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160405	100	613	9.1	8.2	579	11.2	93	150	>2400		<0.02		1.9
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160503	235	619	9.9	8.0	412	7.0	110	130	>2400		<0.02		1.1
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160606	139	616	7.5	8.0	425	18.9		140	7300		0.04		1.3
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160707	74	615	7.9	8.0	559	16.9	16	230	13000		0.03		1.7
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160802	65	619	6.8	8.3	651	24.6	12	310	>24000		0.02		1.9
FOUNTAIN CREEK AT COLORADO SPRINGS, CO	20160908	76	614	8.1	8.1	527	15.0	26	340	6900		<0.02		0

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20151013	104	622	8.4	8.2	779	15.9	4	330	>2400		0.03		2.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20151104	108	611	9.2	8.2	753	12.1	6	110	>2400		0.02		2.7
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20151203	83	622	10.6	8.2	886	8.5	5	78	2400		0.04		3.1
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160112	116	617	10.6	8.4	828	6.7	11	38	520		0.07		2.9
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160210	121	620	10.5	8.2	926	7.9	14	89	1600		0.03		2.3
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160308	141	613	10.1	8.1	723	10.7	16	20	920		0.06		2.6
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160405	105	615	9.0	8.2	663	14.9	57	160	>2400		0.03		2.2
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160503	235	620	9.9	7.8	476	7.3	86	210	2400		0.09		1.5
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160607	193	617	7.9	8.1	546	18.7	29	150	7300		<0.02		1.8
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160707	111	616	7.9	7.9	666	16.8	15	320	7200		0.05		2.2
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160801	103	618	7.6	8.2	715	24.9	20	680	>24000		0.05		2.2
FOUNTAIN CR BLW JANITELL RD BLW COLO. SPRINGS, CO	20160908	123	616	8.0	8.0	676	16.6	8.6	240	6900		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK AT SECURITY, CO	20151015	109	626	8.6	8.4	872	12	14	160	>2400		0.12		3.3
FOUNTAIN CREEK AT SECURITY, CO	20151102	138	618	8.5	8.4	799	14.6	21	64	>2400		0.19		3.2
FOUNTAIN CREEK AT SECURITY, CO	20151203	93	625	9.9	8.3	1040	7.5	18	27	920		0.25		3.9
FOUNTAIN CREEK AT SECURITY, CO	20160107	151	613	10.1	8.4	811	5.7	26	93	>2400		0.27		3.4
FOUNTAIN CREEK AT SECURITY, CO	20160210	141	624	10.2	8.2	1100	7.4	46	79	2400		0.18		3
FOUNTAIN CREEK AT SECURITY, CO	20160308	128	617	9.4	8.6	788	13.3	25	11	2000		0.22		3.1
FOUNTAIN CREEK AT SECURITY, CO	20160406	122	625	9.1	8.1	728	13.4	48	28	>2400		0.04		2.9
FOUNTAIN CREEK AT SECURITY, CO	20160504	276	626	9.4	7.7	523	9.1	73	68	>2400		0.24		1.9
FOUNTAIN CREEK AT SECURITY, CO	20160607	226	622	7.1	8.3	597	22.1	51	300	6100		0.15		2.1
FOUNTAIN CREEK AT SECURITY, CO	20160707	173	621	6.7	8.3	728	25.5	44	200	7300		0.13		2.5
FOUNTAIN CREEK AT SECURITY, CO	20160801	141	622	6.7	8.2	789	27.4	50	200	>24000		0.20		2.7
FOUNTAIN CREEK AT SECURITY, CO	20160901	197	624	7.7	8.1	707	17.7	45	340	>24000		0.08		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20151008	174	630	8.2	8	790	13.6	97	1000	1000		<0.02		2.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20151104	164	618	8.2	8.4	935	13.7	31	45	>2400		<0.02		3.5
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20151207	106	628	10.8	8.2	1030	2.4	26	110	>2400		0.14		3.7
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160105	130	620	10.5	8.3	907	5.3	24	120	2000		0.12		3.7
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160208	153	634	10.6	8.1	1320	5.5	36	88	1400		0.26		3.2
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160307	111	614	9.0	8.4	916	11.4	20	30	690		0.18		3.5
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160404	165	630	8.9	8.0	841	11.5	33	69	1400		0.18		2.9
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160504	232	630	8.8	8.1	645	12.1	81	86	2000		0.06		2.2
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160609	265	624	7.7	8.1	610	18.3	95	560	6900		<0.02		1.9
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160711	126	622	7.3	7.9	809	18.3	36	230	16000		<0.02		2.6
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160803	102	628	7.2	8.1	905	20.4	26	240	>24000		0.03		2.8
FOUNTAIN CR BELOW JIMMY CAMP CR NR FOUNTAIN, CO	20160901	190	628	7.4	8.2	807	19.8	53	360	14000		<0.02		0

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20151008	200	632	7.9	8.2	840	16	100	2000	2400		0.02		2.9
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20151104	153	620	8.3	8.4	989	14	21	18	2400		<0.02		3.6
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20151207	113	631	10.9	8.2	1080	3	27	160	>2400		0.13		3.9
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160105	134	621	10.1	8.4	947	6.6	27	39	1100		0.06		4
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160208	161	636	10.4	8.2	1340	7	39	32	1100		0.15		3.6
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160307	127	616	9.0	8.4	963	11.2	22	10	550		0.06		3.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160404	164	632	8.6	8.2	892	13.9	49	22	1700		0.07		3.3
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160504	261	632	8.3	8.1	720	15.2	82	0		1	<0.02		2.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160609	213	627	7.2	8.2	670	21.6	88	330	16000		0.02		2.2
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160711	124	624	7.2	8.1	871	20.2	37	200	13000		<0.02		2.8
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160803	113	630	6.9	8.2	989	23.9	19	140	14000		0.02		3
FOUNTAIN CREEK NEAR FOUNTAIN, CO.	20160901	256	631	7.2	8.1	857	21.3	77	300	20000		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CREEK NEAR PINON, CO	20151015	121	641	8.7	8.4	1040	13.2	100	310	>2400		<0.02		3.4
FOUNTAIN CREEK NEAR PINON, CO	20151102	166	631	8.2	8.4	998	15.7	58	60	>2400		<0.02		3.6
FOUNTAIN CREEK NEAR PINON, CO	20151207	124	638	10.9	8.3	1130	3.5	67	410	2400		0.04		3.9
FOUNTAIN CREEK NEAR PINON, CO	20160105	168	629	9.9	8.4	1000	6.3	80	15	1000		0.1		4.2
FOUNTAIN CREEK NEAR PINON, CO	20160208	188	643	10	8.3	1360	8.2	96	40	>2400		0.09		4
FOUNTAIN CREEK NEAR PINON, CO	20160307	134	624	8.8	8.4	1030	13.6	45	11	400		0.03		4.1
FOUNTAIN CREEK NEAR PINON, CO	20160404	169	640	8.3	8.2	980	17.3	78	32	920		<0.02		3.7
FOUNTAIN CREEK NEAR PINON, CO	20160504	262	640	7.9	8.2	821	18.6	130	0		2	<0.02		3.3
FOUNTAIN CREEK NEAR PINON, CO	20160609	223	635	6.8	8.3	793	25.4	160	520	>24000		<0.02		2.7
FOUNTAIN CREEK NEAR PINON, CO	20160711	102	631	6.9	8.2	927	23.8	92	230	20000		<0.02		3.1
FOUNTAIN CREEK NEAR PINON, CO	20160803	101	638	6.6	8.2	1020	27.5	64	210	20000		0.03		3.3
FOUNTAIN CREEK NEAR PINON, CO	20160907	135	637	7.2	8.4	964	23.9	61	97	8700		<0.02		0
Standards (if applicable)									126		See Note			4.8
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20151008	210	646	7.4	8.4	989	21.1	220	1500	>24000		<0.02		3.3
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20151103	190	638	10	8.5	1060	8.4	230	230	>2400		<0.02		3.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20151202	114	645	11.5	8.4	1240	1.4	46	36	2000		<0.02		4.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160105	186	635	10.3	8.5	1070	5.4	120	33	>2400		0.06		4.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160203	173	645	10.9	8.3	1110	3.9	180	4	1400		0.08		4.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160307	159	630	8.9	8.5	1090	12.6	95	3	390		<0.02		5
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160404	174	644	8.2	8.3	1050	19.0	84	8	550		<0.02		4.5
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160505	285	644	8.8	8.1	828	12.6	190	49	>2400		<0.02		3.9
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160608	294	638	6.9	8.3	816	23.2	520	1500	>24000		0.02		3.3
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160706	117	639	6.4	8.3	956	30.2	66	98	5500		<0.02		3.7
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160804	85	643	7.4	8.2	1070	20.9	110	240	24000		<0.02		4.6
FOUNTAIN CR ABV 40TH ST AT PUEBLO, CO	20160906	170	640	8.1	8.3	1000	16.9	110	200	20000		<0.02		5.2

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			28.1
FOUNTAIN CREEK AT PUEBLO, CO.	20151008	187	646	7.2	8.4	1010	21.8	220	1900	>24000		<0.02		5.3
FOUNTAIN CREEK AT PUEBLO, CO.	20151103	195	639	9.5	8.5	1080	10.9	220	110	>2400		<0.02		6
FOUNTAIN CREEK AT PUEBLO, CO.	20151203	135	647	10.1	8.4	1230	8	92	6	>2400		<0.02		7.7
FOUNTAIN CREEK AT PUEBLO, CO.	20160111	145	644	12.2	8.3	1250	0	94	27	>2400		0.07		6.9
FOUNTAIN CREEK AT PUEBLO, CO.	20160210	242	645	10	8.3	1250	9	160	28	910		0.04		5.9
FOUNTAIN CREEK AT PUEBLO, CO.	20160308	167	638	9.0	8.5	1100	13.5	73	2	340		<0.02		7.3
FOUNTAIN CREEK AT PUEBLO, CO.	20160404	175	643	7.8	8.3	1080	18.3	81	8	600		<0.02		6.6
FOUNTAIN CREEK AT PUEBLO, CO.	20160502	372	645	8.1	8.4	890	17.3	280	28	>2400		<0.02		5.3
FOUNTAIN CREEK AT PUEBLO, CO.	20160613	320	647	7.7	8.3	844	19.8	400	980	24000		<0.02		4.8
FOUNTAIN CREEK AT PUEBLO, CO.	20160705	187	640	6.5	8.3	958	28.3	110	370	20000		<0.02		5.7
FOUNTAIN CREEK AT PUEBLO, CO.	20160803	126	643	6.4	8.3	1080	29.9	83	250	17000		0.02		7
FOUNTAIN CREEK AT PUEBLO, CO.	20160901	264	645	6.9	8.2	892	25.0	190	330	>24000		<0.02		0
Standards (if applicable)									126		See Note			28.1
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20151015	128	650	7.7	8.5	1150	19.1	90	160	820		<0.02		7.1
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20151103	198	637	8.4	8.5	1100	15.4	160	81	>2400		0.02		6.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20151202	122	646	10.1	8.4	1280	7.2	52	11	1600		0.06		8.4
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160111	150	646	12.4	8.3	1060	-0.1	80	23	>2400		0.07		7.1
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160211	266	645	10.7	8.2	1270	6.2	320	83	>2400		0.03		5.5
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160310	168	646	9.2	8.4	1120	13.5	85	9	240		<0.02		7.3
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160404	188	644	7.7	8.3	1090	19.8	82	2	870		<0.02		6.7
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160505	274	645	8.0	8.2	903	18.9	190	50	>2400		<0.02		5.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160608	302	641	7.2	8.3	850	21.2	510	1700	>24000		<0.02		4.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160705	173	642	6.7	8.2	972	26.8	130	330	>24000		<0.02		5.6
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160804	91	646	7.0	8.4	1120	23.9	100	140	17000		<0.02		8.2
FOUNTAIN CR AT EAST RIVER ST AT PUEBLO, CO	20160906	175	643	7.1	8.3	1040	24.0	120	86	16000		<0.02		7.5
Standards (if applicable)									126		See Note			17.1
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20151015	139	650	9.2	8.7	567	17.9	0	35	>2400		<0.02		10.6
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20151103	408	638	9.3	8.7	522	15.7	7	4	1400		<0.02		7.1
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20151202	92	647	11.6	8.7	715	6.5	0	9	310		<0.02		20.7
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160111	68	646	12.6	8.4	815	0.4	1	100	770		<0.02		24.4
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160203	75	646	13	8.3	744	3.4	1	3	330		0.12	3	21
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160310	291	647	12.4	8.6	539	6.2	2.6	<1	160		<0.02		8.3
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160406	683	647	11.9	8.4	507	7.5	3.5	1	220		<0.02		6.6
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160505	398	646	11.7	8.7	563	10.7	1.3	8	190		<0.02		8.7
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160613	3170	645	9.6	8.4	503	14.1	6.6	1800	17000		0.02		5
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160705	1450	643	8.7	8.3	373	17.8	9.5	62	1800		<0.02		3.4
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160804	587	647	8.8	8.3	346	19.8	8.7	290	8700		<0.02		3.7
ARKANSAS RIVER AT MOFFAT STREET AT PUEBLO, CO	20160906	288	643	9.1	8.6	465	20.3	5.9	180	>2400		<0.02		8.2

Location	Date	Flow	Barometric pressure	Dissolved oxygen	pH	Specific conductance	Temperature	Turbidity	Escherichia coli	Total coliform	Note	Ammonia	Note	Selenium
Standards (if applicable)									126		See Note			14.1
ARKANSAS RIVER NEAR AVONDALE, CO.	20151015	377	653	8.7	8.5	883	17.6	27	26	>2400		<0.02		9.9
ARKANSAS RIVER NEAR AVONDALE, CO.	20151103	671	642	9.2	8.4	763	13.4	46	54	2400		<0.02		8.1
ARKANSAS RIVER NEAR AVONDALE, CO.	20151202	365	651	11.2	8.4	1070	3.3	29	30	2000		0.03		13
ARKANSAS RIVER NEAR AVONDALE, CO.	20160106	335	643	11.4	8.3	1090	1.5	53	28	1600		0.06		13.5
ARKANSAS RIVER NEAR AVONDALE, CO.	20160203	331	650	12	8.1	1060	1.5	50	16	520		0.03		13
ARKANSAS RIVER NEAR AVONDALE, CO.	20160310	491	652	10.6	8.4	838	7.5	34	26	390		<0.02		9.2
ARKANSAS RIVER NEAR AVONDALE, CO.	20160406	891	650	9.8	8.2	699	7.2	34	20	980		<0.02		7.6
ARKANSAS RIVER NEAR AVONDALE, CO.	20160505	903	649	8.7	8.2	732	13.8	140	200	>2400		<0.02		8.1
ARKANSAS RIVER NEAR AVONDALE, CO.	20160613	3360	650	8.4	8.2	563	15.2	45	97	6900		<0.02		5.7
ARKANSAS RIVER NEAR AVONDALE, CO.	20160705	1770	646	7.7	7.9	514	17.9	63	120	16000		<0.02		4.8
ARKANSAS RIVER NEAR AVONDALE, CO.	20160804	818	648	7.5	8.2	590	21.2	87	170	>24000		<0.02		5.9
ARKANSAS RIVER NEAR AVONDALE, CO.	20160906	538	645	7.6	8.2	767	20.3	63	190	16000		<0.02		9.1

**Note on Ammonia:** Arkansas River Standards for Ammonia include calculations to be performed monthly. These standards are not included because calculations with the small volume of data taken for SDS would yield inaccurate standards.

**Note on Salinity:** No standards exist for Salinity along the Arkansas River.

- \* QA Notes by #:
- \*e. The value has been edited or estimated by USGS personnel.
- \*1. Bacteria rejected; Read outside allowable hold time.
- \*2. Bacteria rejected; Read outside allowable hold time.
- \*3. Hold time violation; verification requested by PMT. New maximum value for site.

## Complaint Log

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No attachment is provided because no complaints associated with construction of SDS were received during this reporting period.

# Emergency Response Log

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No attachment is provided because no emergency response incidents associated with construction of SDS occurred during this reporting period.



# Log of Work Occurring During Non-Typical Work Hours

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Work Occurring During Non-Typical Work Hours

Work Package	Day	Date	Hours Worked	Reason
JPS	Saturday	1/9/2016	7:00 a.m. - 11:00 a.m.	Maintaining Construction Schedule
JPS	Saturday	1/30/2016	7:00 a.m. - 11:00 a.m.	Maintaining Construction Schedule

# Expenditures for Wastewater System Improvements Annual Report for 2016

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# Pueblo County 1041 Permit

## Expenditures for Wastewater System Improvements

### Annual Progress Report

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January 18, 2017

Reporting for the period between January 1, 2016 and December 31, 2016

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Project Descriptions.....	2
Local Collectors Evaluation and Rehabilitation Project (LCERP).....	2
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### **APPENDIX A – LCERP COMPLETION TABLE**

### **APPENDIX B – R&R COMPLETION TABLE**

## Introduction

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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 water project within Pueblo County, Colorado.

1041 Permit Condition No.7 requires that 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. 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, 2010 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, 2010. 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 Springs Utilities collection system. In 2016 the projects that met the terms of Condition No. 7 are: 1) the Local Collectors Evaluation and Rehabilitation Project (LCERP); 2) the Manhole Evaluation and Rehabilitation Project (MHERP); and 3) the Collection System Rehabilitation and Replacement Project (R&R). These projects are independent of Springs Utilities' normal operation and maintenance programs.

## Project Descriptions

### Local Collectors Evaluation and Rehabilitation Project (LCERP)

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LCERP consists of the systematic evaluation and rehabilitation of sewer collection pipes less than 10-inch 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 (SSO's)
- Is part of the overall long-term investments to our wastewater system through the year 2025.

LCERP repaired or rehabilitated approximately 51,344 feet of less than 10-inch sewer pipe, representing approximately 87 line segments, at a cost of \$1,957,137 in 2016.

## Collection System Rehabilitation and Replacement Project (R&R)

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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 total cost associated with SSERP since 2000 is approximately \$74.85million.

The R&R project rehabilitates or replaces large diameter (greater than 10-inch) 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 protecting the public health and environment.

R&R repaired or rehabilitated approximately 4,494 feet of greater than 10-inch sewer pipe, representing 13 line segments, at a cost of \$871,895 in 2016.

## Wastewater Reuse System

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The 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 2016.

## Summary

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During the reporting period of January 1, 2016 through December 31, 2016 costs for LCERP and System R&R totaled \$2,829,032. The total Wastewater Expenditures reported since 2010 is \$50,256,303.

## Appendix A

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2016 Local Collectors Evaluation and Rehabilitation Program Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.147965	2927116	8	192	CIPP	GARDEN OF THE GODS	10/07/16
WW.158147	2927093	8	129	CIPP	GARDEN OF THE GODS	10/07/16
WW.139674	2925284	8	33	CIPP	GARDEN OF THE GODS	10/07/16
WW.139871	3087198	8	206	CIPP	LOWER SAND CREEK	10/07/16
WW.141762	2927262	8	393	CIPP	GARDEN OF THE GODS	10/06/16
WW.135378	2925523	8	226	CIPP	GARDEN OF THE GODS	10/06/16
WW.134884	3087199	8	237	CIPP	LOWER SAND CREEK	10/06/16
WW.135367	2927139	8	280	CIPP	GARDEN OF THE GODS	10/05/16
WW.151980	2927162	8	305	CIPP	GARDEN OF THE GODS	10/05/16
WW.135361	2927133	8	271	CIPP	GARDEN OF THE GODS	10/04/16
WW.135363	2927137	8	280	CIPP	GARDEN OF THE GODS	10/04/16
WW.156218	2927153	8	456	CIPP	GARDEN OF THE GODS	10/03/16
WW.157880	3087200	8	239	CIPP	LOWER SAND CREEK	10/03/16
WW.158135	2927224	8	217	CIPP	GARDEN OF THE GODS	09/30/16
WW.160156	2925292	8	244	CIPP	GARDEN OF THE GODS	09/30/16
WW.135370	2927145	8	232	CIPP	GARDEN OF THE GODS	09/30/16
WW.156216	2925289	8	269	CIPP	GARDEN OF THE GODS	09/30/16
WW.134887	3087201	8	255	CIPP	LOWER SAND CREEK	09/30/16
WW.132329	2927203	8	143	CIPP	GARDEN OF THE GODS	09/29/16
WW.135383	2925526	8	284	CIPP	GARDEN OF THE GODS	09/29/16
WW.134888	2844027	8	229	CIPP	LOWER SAND CREEK	09/29/16
WW.162182	2927252	8	51	CIPP	GARDEN OF THE GODS	09/28/16
WW.151981	2925288	8	311	CIPP	GARDEN OF THE GODS	09/28/16
WW.147961	2925294	8	225	CIPP	GARDEN OF THE GODS	09/28/16
WW.149989	2925285	8	175	CIPP	GARDEN OF THE GODS	09/28/16
WW.135097	2927226	8	174	CIPP	GARDEN OF THE GODS	09/27/16
WW.145909	2927227	8	321	CIPP	GARDEN OF THE GODS	09/27/16
WW.149980	2927234	8	339	CIPP	GARDEN OF THE GODS	09/26/16
WW.153955	2927247	8	144	CIPP	GARDEN OF THE GODS	09/26/16
WW.141764	2927265	8	276	CIPP	GARDEN OF THE GODS	09/26/16
WW.162181	2927251	8	171	CIPP	GARDEN OF THE GODS	09/23/16
WW.145913	2927256	8	162	CIPP	GARDEN OF THE GODS	09/23/16
WW.157881	3087202	8	375	CIPP	LOWER SAND CREEK	09/23/16
WW.152072	2927212	8	339	CIPP	GARDEN OF THE GODS	09/22/16
WW.155792	3087203	8	158	CIPP	LOWER SAND CREEK	09/22/16
WW.134883	3087204	8	156	CIPP	LOWER SAND CREEK	09/22/16
WW.139664	2927210	8	387	CIPP	GARDEN OF THE GODS	09/21/16
WW.134886	3087205	8	275	CIPP	LOWER SAND CREEK	09/21/16
WW.147769	3087207	8	401	CIPP	LOWER SAND CREEK	09/19/16
WW.143592	2844028	8	229	CIPP	LOWER SAND CREEK	09/16/16
WW.149755	3087208	8	146	CIPP	LOWER SAND CREEK	09/13/16
WW.139430	3087209	8	290	CIPP	LOWER SAND CREEK	09/13/16
WW.134878	3087210	8	371	CIPP	LOWER SAND CREEK	09/12/16
WW.139658	2927267	8	289	CIPP	GARDEN OF THE GODS	09/08/16
WW.156019	2927243	8	345	CIPP	GARDEN OF THE GODS	09/08/16
WW.151763	3087211	8	301	CIPP	LOWER SAND CREEK	09/08/16
WW.141497	3087217	8	128	CIPP	LOWER SAND CREEK	09/08/16
WW.164432	2925290	8	389	CIPP	GARDEN OF THE GODS	08/27/16
WW.149970	2927211	8	398	CIPP	GARDEN OF THE GODS	08/12/16
WW.145996	2927175	8	298	CIPP	GARDEN OF THE GODS	08/12/16
WW.141766	2927264	8	289	CIPP	GARDEN OF THE GODS	08/11/16
WW.149979	2927233	8	375	CIPP	GARDEN OF THE GODS	08/10/16
WW.135368	2927143	8	375	CIPP	GARDEN OF THE GODS	08/09/16
WW.137638	2927261	8	349	CIPP	GARDEN OF THE GODS	08/09/16
WW.162179	2927250	8	341	CIPP	GARDEN OF THE GODS	08/08/16
WW.149976	2927229	8	375	CIPP	GARDEN OF THE GODS	08/08/16
WW.164236	2927248	8	115	CIPP	GARDEN OF THE GODS	08/04/16
WW.153954	2927246	8	83	CIPP	GARDEN OF THE GODS	08/04/16
WW.137636	2927260	8	230	CIPP	GARDEN OF THE GODS	08/03/16
WW.156023	2927245	8	399	CIPP	GARDEN OF THE GODS	08/03/16

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.158138	2927236	8	399	CIPP	GARDEN OF THE GODS	08/02/16
WW.149977	2927231	8	327	CIPP	GARDEN OF THE GODS	08/02/16
WW.149840	2927213	8	206	CIPP	GARDEN OF THE GODS	08/01/16
WW.132335	2927205	8	189	CIPP	GARDEN OF THE GODS	07/28/16
WW.152495	2927179	8	189	CIPP	GARDEN OF THE GODS	07/28/16
WW.159246	3012042	8	263	CIPP	LOWER COTTONWOOD CREEK	07/28/16
WW.133575	3012067	8	86	CIPP	LOWER COTTONWOOD CREEK	07/28/16
WW.156559	2927270	8	349	CIPP	GARDEN OF THE GODS	07/27/16
WW.150478	2927268	8	260	CIPP	GARDEN OF THE GODS	07/27/16
WW.140799	3012054	8	275	CIPP	LOWER COTTONWOOD CREEK	07/27/16
WW.153095	3012008	8	298	CIPP	LOWER COTTONWOOD CREEK	07/27/16
WW.146436	2927207	8	299	CIPP	GARDEN OF THE GODS	07/26/16
WW.156558	2927197	8	223	CIPP	GARDEN OF THE GODS	07/26/16
WW.149082	3011921	8	188	CIPP	LOWER COTTONWOOD CREEK	07/26/16
WW.145995	2927206	8	326	CIPP	GARDEN OF THE GODS	07/25/16
WW.151852	2927184	8	327	CIPP	GARDEN OF THE GODS	07/25/16
WW.145038	3012049	8	266	CIPP	LOWER COTTONWOOD CREEK	07/25/16
WW.144837	2922994	8	114	CIPP	UPPER SAND CREEK	07/22/16
WW.136553	2922991	8	303	CIPP	UPPER SAND CREEK	07/22/16
WW.143823	2927259	8	200	CIPP	GARDEN OF THE GODS	07/22/16
WW.151978	3087212	8	327	CIPP	GARDEN OF THE GODS	07/22/16
WW.163316	3012012	8	287	CIPP	LOWER COTTONWOOD CREEK	07/22/16
WW.142906	3012052	8	264	CIPP	LOWER COTTONWOOD CREEK	07/22/16
WW.138779	3012051	8	303	CIPP	LOWER COTTONWOOD CREEK	07/20/16
WW.157199	3102044	8	350	CIPP	LOWER COTTONWOOD CREEK	07/19/16
WW.157201	3012046	8	124	CIPP	LOWER COTTONWOOD CREEK	07/18/16
WW.159257	2920834	8	299	CIPP	LOWER COTTONWOOD CREEK	07/15/16
WW.157213	2920836	8	288	CIPP	LOWER COTTONWOOD CREEK	07/15/16
WW.132334	2927204	8	131	CIPP	GARDEN OF THE GODS	07/14/16
WW.142279	2927209	8	439	CIPP	GARDEN OF THE GODS	07/14/16
WW.149076	3011919	8	363	CIPP	LOWER COTTONWOOD CREEK	07/14/16
WW.158637	2927189	8	274	CIPP	GARDEN OF THE GODS	07/13/16
WW.162686	2927201	8	306	CIPP	GARDEN OF THE GODS	07/13/16
WW.145053	2920822	8	407	CIPP	LOWER COTTONWOOD CREEK	07/12/16
WW.160673	2927202	8	400	CIPP	GARDEN OF THE GODS	07/12/16
WW.152493	2927178	8	179	CIPP	GARDEN OF THE GODS	07/12/16
WW.138603	2922992	8	149	CIPP	UPPER SAND CREEK	06/29/16
WW.148885	2922993	8	301	CIPP	UPPER SAND CREEK	06/29/16
WW.136477	2922979	8	297	CIPP	UPPER SAND CREEK	06/28/16
WW.147960	2927257	8	179	CIPP	GARDEN OF THE GODS	06/28/16
WW.152065	2920841	8	330	CIPP	LOWER COTTONWOOD CREEK	06/27/16
WW.144793	2922987	8	358	CIPP	UPPER SAND CREEK	06/27/16
WW.148876	2922997	8	288	CIPP	UPPER SAND CREEK	06/24/16
WW.163098	2922990	8	157	CIPP	UPPER SAND CREEK	06/24/16
WW.139643	2918317	8	402	CIPP	GARDEN OF THE GODS	06/23/16
WW.145902	2927323	8	176	CIPP	GARDEN OF THE GODS	06/21/16
WW.135350	2927320	8	188	CIPP	GARDEN OF THE GODS	06/21/16
WW.163557	1826522	6	33	CIPP	SOUTH TEJON	06/20/16
WW.150070	2927319	8	500	CIPP	GARDEN OF THE GODS	06/17/16
WW.164102	2927120	8	121	CIPP	GARDEN OF THE GODS	06/16/16
WW.141610	2927122	8	163	CIPP	GARDEN OF THE GODS	06/15/16
WW.155889	2927118	8	112	CIPP	GARDEN OF THE GODS	06/15/16
WW.153706	2140796	8	28	CIPP	SHOOKS RUN	06/10/16
WW.158346	2925525	8	533	CIPP	GARDEN OF THE GODS	06/09/16
WW.137746	2922809	8	333	CIPP	MESA VALLEY	06/07/16
WW.144359	2922811	8	156	CIPP	MESA VALLEY	06/07/16
WW.152516	2922810	8	91	CIPP	MESA VALLEY	06/07/16
WW.160150	2918299	8	300	CIPP	GARDEN OF THE GODS	06/06/16
WW.147946	2927348	8	249	CIPP	GARDEN OF THE GODS	06/02/16
WW.160352	2927124	8	270	CIPP	GARDEN OF THE GODS	06/02/16

2016 Local Collectors Evaluation and Rehabilitation Program Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.160138	2927273	8	400	CIPP	GARDEN OF THE GODS	06/01/16
WW.162172	2927281	8	382	CIPP	GARDEN OF THE GODS	06/01/16
WW.135359	2927340	8	303	CIPP	GARDEN OF THE GODS	05/31/16
WW.139651	2927339	8	187	CIPP	GARDEN OF THE GODS	05/31/16
WW.157762	3087218	8	500	CIPP	DOWNTOWN	05/26/16
WW.139885	2927344	8	102	CIPP	GARDEN OF THE GODS	05/25/16
WW.145906	2927350	8	103	CIPP	GARDEN OF THE GODS	05/25/16
WW.154162	2927349	8	296	CIPP	GARDEN OF THE GODS	05/25/16
WW.160145	2927346	8	222	CIPP	GARDEN OF THE GODS	05/24/16
WW.135759	2927343	8	343	CIPP	GARDEN OF THE GODS	05/24/16
WW.149961	2927310	8	400	CIPP	GARDEN OF THE GODS	05/23/16
WW.135351	2927316	8	155	CIPP	GARDEN OF THE GODS	05/23/16
WW.137623	3087216	8	318	CIPP	GARDEN OF THE GODS	05/20/16
WW.137624	2927284	8	372	CIPP	GARDEN OF THE GODS	05/19/16
WW.149962	2927277	8	365	CIPP	GARDEN OF THE GODS	05/19/16
WW.135354	3087213	8	247	CIPP	GARDEN OF THE GODS	05/18/16
WW.135346	2927332	8	264	CIPP	GARDEN OF THE GODS	05/18/16
WW.153949	2927313	8	412	CIPP	GARDEN OF THE GODS	05/17/16
WW.139653	2927317	8	239	CIPP	GARDEN OF THE GODS	05/17/16
WW.162173	2927314	8	377	CIPP	GARDEN OF THE GODS	05/16/16
WW.151967	2927312	8	187	CIPP	GARDEN OF THE GODS	05/16/16
WW.139654	2927318	8	305	CIPP	GARDEN OF THE GODS	05/16/16
WW.153951	2927341	8	472	CIPP	GARDEN OF THE GODS	05/13/16
WW.135358	2927336	8	384	CIPP	GARDEN OF THE GODS	05/12/16
WW.147955	2927338	8	189	CIPP	GARDEN OF THE GODS	05/12/16
WW.158127	2927334	8	178	CIPP	GARDEN OF THE GODS	05/12/16
WW.135344	2927282	8	42	CIPP	GARDEN OF THE GODS	05/11/16
WW.139650	2927308	8	407	CIPP	GARDEN OF THE GODS	05/11/16
WW.162167	2927279	8	242	CIPP	GARDEN OF THE GODS	05/10/16
WW.145898	2927347	8	200	CIPP	GARDEN OF THE GODS	05/10/16
WW.151960	2927345	8	405	CIPP	GARDEN OF THE GODS	05/10/16
WW.145894	2927276	8	100	CIPP	GARDEN OF THE GODS	05/09/16
WW.137847	2927303	8	278	CIPP	GARDEN OF THE GODS	05/09/16
WW.161059	2922948	8	134	CIPP	UPPER SAND CREEK	05/08/16
WW.150105	2923000	8	391	CIPP	UPPER SAND CREEK	05/06/16
WW.144791	2922999	8	70	CIPP	UPPER SAND CREEK	05/06/16
WW.148811	2922978	8	379	CIPP	UPPER SAND CREEK	05/05/16
WW.164309	2922995	8	305	CIPP	UPPER SAND CREEK	05/05/16
WW.158988	2922946	8	233	CIPP	UPPER SAND CREEK	05/04/16
WW.135626	2922996	8	245	CIPP	UPPER SAND CREEK	05/04/16
WW.137773	2922981	8	396	CIPP	UPPER SAND CREEK	05/03/16
WW.148819	2922980	8	355	CIPP	UPPER SAND CREEK	05/03/16
WW.141760	2140807	8	200	CIPP	GARDEN OF THE GODS	05/02/16
WW.162175	2918314	8	432	CIPP	GARDEN OF THE GODS	04/28/16
WW.143815	2918318	8	403	CIPP	GARDEN OF THE GODS	04/26/16
WW.143804	2918303	8	347	CIPP	GARDEN OF THE GODS	04/19/16
WW.150848	3087215	8	258	CIPP	UPPER SAND CREEK	04/06/16
WW.151970	2918319	8	438	CIPP	GARDEN OF THE GODS	04/05/16
WW.156943	2922962	8	201	CIPP	UPPER SAND CREEK	04/04/16
WW.142713	2922956	8	284	CIPP	UPPER SAND CREEK	04/04/16
WW.145914	2927123	8	305	CIPP	GARDEN OF THE GODS	03/29/16
WW.149984	2925286	8	162	CIPP	GARDEN OF THE GODS	03/29/16
WW.150942	2162514	8	341	CIPP	UPPER SAND CREEK	03/22/16
WW.163051	2922982	8	230	CIPP	UPPER SAND CREEK	03/22/16
WW.176670	3087214	8	130	CIPP	PATTY JEWETT	03/21/16
WW.162165	2918313	8	23	CIPP	GARDEN OF THE GODS	03/21/16
WW.139712	2962845	8	308	CIPP	WEST SIDE	03/11/16
WW.145051	2920769	8	131	CIPP	LOWER COTTONWOOD CREEK	01/27/16
WW.149096	2919438	8	172	CIPP	LOWER COTTONWOOD CREEK	01/26/16
WW.142918	2920781	8	168	CIPP	LOWER COTTONWOOD CREEK	01/26/16

2016 Local Collectors Evaluation and Rehabilitation Program Completion Table

CSU Location ID	Work Order #	DIAMETER (inches)	LENGTH (feet)	Assesment Description	Collection Basin Name	Date Complete
WW.133586	2920838	8	295	CIPP	LOWER COTTONWOOD CREEK	01/25/16
WW.133602	2919423	8	206	CIPP	LOWER COTTONWOOD CREEK	01/22/16
WW.149095	2920824	8	96	CIPP	LOWER COTTONWOOD CREEK	01/21/16
WW.146988	2920825	8	251	CIPP	LOWER COTTONWOOD CREEK	01/21/16
WW.151091	2920774	8	296	CIPP	LOWER COTTONWOOD CREEK	01/20/16
WW.159258	2920776	8	355	CIPP	LOWER COTTONWOOD CREEK	01/18/16
WW.140806	2920761	8	72	CIPP	LOWER COTTONWOOD CREEK	01/11/16
WW.163327	2920782	8	296	CIPP	LOWER COTTONWOOD CREEK	01/07/16
WW.159259	2920783	8	370	CIPP	LOWER COTTONWOOD CREEK	01/07/16
WW.133598	2919425	8	226	CIPP	LOWER COTTONWOOD CREEK	01/06/16
WW.133595	2919436	8	237	CIPP	LOWER COTTONWOOD CREEK	01/06/16
WW.144924	2920771	8	337	CIPP	LOWER COTTONWOOD CREEK	01/05/16
WW.196952	2926633	8	166	Replacement	GARDEN OF THE GODS	01/15/16
WW.191726	2926686	8	40	Replacement	GARDEN OF THE GODS	04/28/16
WW.169390	2933808	8	186	Replacement	LOWER COTTONWOOD CREEK	02/09/16
WW.117339	2933871	8	261	Replacement	PATTY JEWETT	04/12/16
WW.168694	3044973	8	20	Replacement	LOWER SAND CREEK	12/22/16
<b>Totals</b>	<b>87</b>		<b>51,344</b>			

## Appendix B

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**2015 - Collection System Rehabilitation and Replacement Project**

<b>Collection System Rehabilitation and Replacement</b>							
<b>PIPE LID</b>	<b>Task Order #</b>	<b>Work Order #</b>	<b>Existing Size</b>	<b>PIPE COND.</b>	<b>LENGTH</b>	<b>NEW PIPE SIZE</b>	<b>Completion Date</b>
WW.140211	72	2934527	<b>24</b>	Protuding Tap	149	NA	7/19/16
WW.137140	72	2934535	10	Sags	140	NA	7/20/16
WW.145418	72	2934541	10	Sags	193	NA	7/20/16
WW.133620	72	2934543	10	Lining Delamination	388	NA	7/21/16
WW.139536	72	2934545	10	Sags, Infiltration	138	NA	8/1/16
WW.141679	72	2934546	12	Infiltration	397	NA	7/15/16
WW.164319	72	2934561	42	Tar Lining Degradation	479	NA	1/5/16
WW.143518	72	2934562	42	Tar Lining Degradation	496	NA	1/5/16
WW.151681	72	2934563	42	Tar Lining Degradation	436	NA	1/8/16
WW.137336	72	2934565	42	Tar Lining Degradation	437	NA	1/8/16
WW.157808	72	2934567	42	Tar Lining Degradation	539	NA	1/16/16
WW.151684	72	2934568	42	Tar Lining Degradation	233	NA	1/16/16
WW.149686	72	2934569	42	Tar Lining Degradation	469	NA	1/20/16
<b>Subtotal</b>	13				4,494		

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

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Data will be reported in 12-month increments, from November of the previous year to October of the current year. For the initial report, Colorado Springs is reporting 13 months of data as water for testing was conveyed through the pipeline beginning in October 2015.

## Colorado Springs Utilities

	Pueblo Reservoir EOM Storage (acre-feet)		Total Diversion	Total Delivery <sup>1</sup>
	<i>Long Term Excess Capacity Acct</i>	<i>Fry-Ark Carry Over Account</i>	acre-feet	acre-feet
Oct 2015	16,366.30	53,095.34	<i>no Pueblo County diversions</i>	39.70
Nov	16,358.99	52,951.36		214.65
Dec	16,965.54	52,864.84		372.41
Jan 2016	15,951.98	52,794.38		1,130.56
Feb	16,494.61	52,681.56		58.92
Mar	14,440.51	52,478.46		117.27
Apr	10,495.48	52,211.92		154.94
May	10,477.71	54,084.29		408.30
Jun	7,266.82	53,470.77		194.92
Jul	6,137.26	52,896.37		222.61
Aug	10,900.02	52,469.71		305.90
Sep	11,726.25	52,019.45		299.88
Oct	14,031.01	51,514.56		363.68
Annual Total:				3883.73

Notes:

<sup>1</sup> October - March totals were pipe fill/testing only. In April 40.06 AF was delivered to the system; the remainder was pipe fill/testing.

## 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
Nov 2015				
Dec				
Jan 2016				
Feb				
Mar				
Apr	7149.74	883.42	0.00	4.03
May	7629.29	884.55	0.00	116.78
Jun	7538.90	680.65	0.00	173.44
Jul	7454.25	838.92	0.00	180.56
Aug	7321.98	634.25	0.00	121.71
Sep	7256.25	770.89	0.00	127.99
Oct	7115.40	837.68	0.00	87.36

Annual Total: 0.00 811.87  
Monthly Summary



### Pueblo West Metropolitan District

	Pueblo Reservoir EOM Storage (acre-feet)		Total Diversion	Total Delivery
	<i>Pueblo West</i>		acre-feet	acre-feet
Nov 2015				
Dec				
Jan 2016				
Feb	5099.88		95.11	95.11
Mar	4867.88		294.46	294.46
Apr	4467.90		418.31	418.31
May	4141.64		551.95	551.95
Jun	4090.47		737.05	737.05
Jul	4463.01		734.67	734.67
Aug	6781.36		671.23	671.23
Sep	6056.36		666.79	666.79
Oct	5450.51		566.67	566.67

Annual Total: 4736.24 4736.24

### 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
Nov 2015				
Dec				
Jan 2016				
Feb				
Mar				
Apr	5763.87	664.04	0.00	0.63
May	6064.00	614.27	0.00	74.54
Jun	5894.85	353.18	0.00	256.73
Jul	5740.42	163.85	0.00	197.20
Aug	5692.04	162.37	0.00	149.57
Sep	5581.94	116.44	0.00	148.97
Oct	5439.53	164.42	0.00	98.47

Annual Total: 0.00 926.11

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

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Data will be reported in 12-month increments, from November of the previous year to October of the current year. For the initial report, Colorado Springs is reporting 13 months of data as water for testing was conveyed through the pipeline beginning in October 2015.

## Return Flow Summary

### Colorado Springs Utilities

#### SDS Return Flow Summary

	Total RFs to Fountain Creek <sup>2</sup>	Avg Flow <sup>2</sup>	Max Daily Flow <sup>2</sup>	RFs to Fountain Creek Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Oct 2015	112.82	1.90	9.42	none in 2016	none in 2016
Nov	245.46	4.13	24.10		
Dec	265.43	4.46	17.06		
Jan 2016	940.73	15.81	71.39		
Feb	72.81	1.22	7.52		
Mar	82.30	1.38	9.14		
Apr	87.74	1.47	7.92		
May	186.91	3.04	8.39		
Jun	49.95	0.84	1.66		
Jul	63.10	1.03	2.77		
Aug	103.65	1.69	2.67		
Sep	104.34	1.75	3.26		
Oct	156.52	2.55	3.92		
	2315.24			0.00	0.00

Notes:

<sup>2</sup> October - March flows were released to Sand Creek after testing only. In April, 5.44 af was actual return flows; the remainder was released after testing.  
No calculations of irrigation return flows, only direct or indirect through pipes.

### City of Fountain

	Total RFs to Ftn Ck	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Nov 2015					
Dec					
Jan 2016					
Feb					
Mar					
Apr	3.38	0.85	0.85	0.00	0.00
May	87.85	1.43	2.03	0.00	0.00
Jun	123.45	2.07	2.68	0.00	0.00
Jul	104.89	1.71	2.21	0.00	0.00
Aug	68.71	1.12	1.82	0.00	0.00
Sep	63.53	1.07	1.56	0.00	0.00
Oct	49.49	0.80	1.35	0.00	0.00
	501.30			0.00	0.00

## Pueblo West Metropolitan District

### Return Flow Summary

*Pueblo West does not exchange flows from Fountain Creek.*

	Total RFs to Ftn Ck	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Nov 2015		0.00			
Dec		0.00			
Jan 2016		0.00			
Feb		0.00			
Mar		0.00			
Apr		0.00			
May		0.00			
Jun		0.00			
Jul		0.00			
Aug		0.00			
Sep		0.00			
Oct		0.00			
	0.00			0.00	0.00

## Security Water District

	Total RFs to Ftn Ck	Avg Flow	Max Daily Flow	RFs to Ftn Ck Storage	RFs released from Ftn Ck Storage
	acre-feet	cfs	cfs	acre-feet	acre-feet
Nov 2015					
Dec					
Jan 2016					
Feb					
Mar					
Apr	0.46	0.12	0.21	0.00	0.00
May	37.88	0.62	1.54	0.00	0.00
Jun	92.83	1.56	1.77	0.00	0.00
Jul	76.70	1.25	1.82	0.00	0.00
Aug	68.02	1.11	1.51	0.00	0.00
Sep	71.80	1.21	1.70	0.00	0.00
Oct	53.75	0.87	1.66	0.00	0.00
	401.44			0.00	0.00

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

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Data will be reported in 12-month increments, from November of the previous year to October of the current year. For the initial report, Colorado Springs is reporting 13 months of data as water for testing was conveyed through the pipeline beginning in October 2015.

## Exchange Summary

### Colorado Springs Utilities

#### SDS Exchange Summary

	Total Exchange <sup>3</sup>	Avg Flow
	acre-feet	cfs
Oct 2015	80.89	1.36
Nov	194.97	3.28
Dec	245.49	4.13
Jan 2016	8.42	0.14
Feb	31.75	0.53
Mar	94.81	1.59
Apr	75.72	1.27
May	148.58	2.42
Jun	41.91	0.70
Jul	51.55	0.84
Aug	90.47	1.47
Sep	87.71	1.47
Oct	112.15	1.82
	1264.42	

Notes:

<sup>3</sup> October - March flows were exchanges of testing releases only. Most return flows in Jan/Feb were run to Colorado Canal rather than exchanged.

### City of Fountain

#### Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Nov 2015		
Dec		
Jan 2016		
Feb		
Mar		
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
Oct	0.00	0.00

0.00

**Pueblo West Metropolitan District**

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## Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Nov 2015		0.00
Dec		0.00
Jan 2016		0.00
Feb		0.00
Mar		0.00
Apr		0.00
May		0.00
Jun		0.00
Jul		0.00
Aug		0.00
Sep		0.00
Oct		0.00

0.00

**Security Water District**

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## Exchange Summary

	Total Exchange	Avg Flow
	acre-feet	cfs
Nov 2015		
Dec		
Jan 2016		
Feb		
Mar		
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
Oct	0.00	0.00

0.00

# Geomorphology Monitoring

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Data is not yet available for post-construction reporting period. USGS will provide data once quality assurance review is complete. Data will provided in the next Annual Report.