



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8**

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917

<http://www.epa.gov/npdes/npdes-stormwater-program>

STORMWATER ANNUAL REPORT FORM

This form is for regulated small MS4s (Municipal Separate Storm Sewer Systems) and may be used to meet the annual reporting requirements for regulated small MS4s as outlined in 40 CFR 122.34g(3). While it is not required for MS4 operators to use this form to meet federal regulations, MS4s are encouraged to use this format to allow for more efficient record keeping and to minimize paper consumption.

PLEASE NOTE: this form may not include all of the information required to be submitted in your annual report. Please review your MS4 permit to ensure all required information is reported. Include supplemental pages to this form if needed.

Completed forms should be emailed to:

Email: maybach.amy@epa.gov

AND/OR mailed to:

Amy Maybach
EPA Region 8 Stormwater Coordinator
Mailcode: 8WD-CWW
1595 Wynkoop Street
Denver, CO 80202-1129

All sections of this form must be completed and Item I on Page 18 must be signed and certified.

Please print or type

A. Permittee Information

Permittee (Agency Name): Fort Carson

Mailing Address: 1626 Evans Street, Building 1219

City, State and Zip Code: Fort Carson, CO 80913-4000

Contact Phone Number: 719-526-1697

Permit Certification Number: COR042001

Have any areas been added to the MS4 due to annexation or other legal means? No

B. Reporting Period: Jan 1, 2023, to Dec. 31, 2023

C. Construction Program Contact:

The following information will be provided on EPA's web site to assist construction site operators in determining municipality-specific requirements for their projects:

Have you assigned an appropriate contact person/work unit to address questions regarding your municipality's construction and post-construction requirements? Yes

If Yes:

Contact name: Andrew Rippe
Position/work group title: Stormwater Program Manager
Contact phone number: 719-725-8073
Contact E-mail address: andrew.s.rippe.civ@army.mil

If a web site has been created with information on complying with your municipality's construction and/or post-construction requirements, list the address:

Fort Carson DPW Stormwater information: <https://home.army.mil/carson/Directorate/directorate-public-works/stormw>

D. Implementation of EPA's Stormwater Management Program

The purpose of the annual report is to report on the status of your implementation of the permit requirements, including compliance with the standard of reducing the discharge of pollutants from your MS4 to the Maximum Extent Practicable (MEP). Address each of the following items for **each** of the six program areas:

1. Public education and outreach on stormwater impacts;
2. Public participation/involvement;
3. Illicit discharge detection and elimination;
4. Construction site stormwater runoff control;
5. Post-construction stormwater management in new development and redevelopment; and
6. Pollution prevention/good housekeeping for municipal operations

As the permittee, you must collect and maintain adequate information to demonstrate implementation of the six program areas as per your stormwater management program. Note that although the annual report only requires the submittal of certain information as outlined below, additional information may be requested by EPA to audit the implementation of your stormwater management program. For example, construction site inspection reports, outreach materials, and records of maintenance activities performed may be requested by EPA in addition to the annual report.

If another entity does not have its own permit but is instead covered under your permit, the annual report information under Section D of this form must also be provided for each such entity.

1. Public Education and Outreach on Stormwater Impacts

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to a BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for public education and outreach on stormwater impacts for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.2.1 - Implement an education and outreach program for Fort Carson that targets project managers, contractors, tenants, and environmental staff to provide education and outreach about the impacts of stormwater discharges on local water bodies and the steps that can be taken to reduce pollutants in stormwater runoff.	<p>Fort Carson's main focus of education is through the Environmental Protection Officer (EPO) course, which is offered on a monthly basis to Soldiers and civilians who are responsible for compliance at the installation's motor pools and maintenance facilities. (EPO Course slides - Attachment 11)</p> <p>In 2023, the Environmental Division conducted 5 EPO training courses. A total of 111 soldiers were trained.</p> <p>Additionally, the stormwater program conducts Construction Stormwater Training (Attachment 27) with contractors and soldiers who are conducting construction projects on the installation to educate them on protecting water quality during construction.</p> <p>In 2023 the Stormwater program trained 16 contractors on SWPPP requirements.</p>	Yes. Annual revision and update to training materials reflecting current stormwater topics and issues.

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p>2.2.2 - Produce and disseminate informational material to inform the public (i.e.; project managers, contractors, tenants, students, and environmental staff) of the effects of erosion and runoff on water quality. Informational materials shall be updated and distributed as necessary throughout the duration of this permit and should provide a location where all annual reports and/or SWMP updates, as required by this permit, may be viewed.</p>	<p>Fort Carson has several methods to disseminate information to the public. The EPO course is given 4 or more times per year and Construction Stormwater is offered quarterly and as needed for new contractors:</p> <ol style="list-style-type: none"> 1. The Fort Carson Stormwater Brochure is provided to EPO and Construction Stormwater class attendees, as well as to attendees of outreach programs 2. Stormwater pollution prevention posters (Attachment 8) are displayed at all MSGP industrial sites. 3. The Fort Carson Resident's Guide (Attachment 14) provides information for protecting water quality in the installation housing areas. 4. The Fort Carson Directorate of Public Works homepage provides public information on the Stormwater Program. https://www.carson.army.mil/organizations/dpw.html 	<p>Yes. Facebook posts were added as a method of information dissemination to reach more members of the public.</p>
<p>2.2.3 - Provide and document training to appropriate planning staff, project managers, contracting officers and other parties, as applicable, to learn about LID practices, green infrastructure (GI) practices, and to communicate the specific requirements for postconstruction control and the associated SCM laid out with the SWMP.</p>	<p>Low Impact Development training is accomplished during the EPO and Construction Site training and provides general information on LID features installed on Fort Carson and the procedures for requesting maintenance. Maintenance training is provided on an as needed basis for the installation service contractor.</p> <p>The FT Carson LID Operation and Maintenance Manual (Attachment 12) along with the FT Carson BMPs for Winter Maintenance Guide (Attachment 9) are distributed to the contractor element tasked with performing LID maintenance and winter maintenance such as sand and salt application. Beginning permit year 2024, O&M training will be documented and tracked using the O&M Training Certification Signature document.</p>	<p>Yes, LID inventory was verified to ensure all applicable LID features are covered in training.</p>

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p>2.2.4 - Provide a stormwater awareness brochure and track its distribution.</p> <p>2.2.5 - Ensure, to the extent feasible, that any new resident guides include terms for occupancy that relate to household waste management, pet policy, lawn watering, petroleum management, fertilizer/pesticide management, and car washing.</p> <p>2.2.6 - At minimum, produce and disseminate informational material to inform employees and contractors working on site of the proper hazardous waste collection processes. These materials should be updated and distributed throughout the duration of the permit, as necessary.</p>	<p>A copy of the Fort Carson Stormwater Brochure is provided at several times and events throughout the year. A copy of the brochure and numbers of distributed brochures can be found in the PE&O Tracker in (Attachment 1). During 2023, 218 brochures were distributed to students and residents and active-duty soldiers.</p> <p>The Fort Carson Resident's guide (Attachment 14) provides information for protecting water quality in the installation's housing areas. The guide is available to new residents on a secure portal. Ft. Carson also distributes an SPCC Spill Procedure Poster (Attachment 15) and the MWR Auto Craft Flier (Attachment 16), which give the residents alternatives to vehicle maintenance and spill cleanups.</p> <p>The Fort Carson DPW Homepage provides information on the proper collection and disposal of household hazardous waste.</p> <p>The Fort Carson Environmental Battle book provides information to Soldiers and the installation's workforce on the proper hazardous waste collection processes.</p> <p><u>URL to Environmental Battle Book:</u> chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://home.army.mil/carson/application/files/9016/4934/6122/environmental-battlebook.pdf</p> <p>Fort Carson DPW also provides the 40-hour and 8-hour refresher employee training for the Hazardous Waste Operations and Emergency Response (HAZWOPER) certification, which specially addresses hazardous waste handling processes. (Attachment 19 shows the 2023 DPW HAZWOPER Training Roster</p>	<p>Yes. Revise the current brochure to align with regulations, when Ft. Carson's MS4 permit is renewed.</p> <p>Yes. Revise the current language in this guide that relates to stormwater, to align with regulations, when Ft. Carson's MS4 permit is renewed.</p> <p>No</p>

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.2.7 - Document education and outreach activities in the SWMP, including documents created for distribution and a training schedule which notes the dates that training occurred, and the target audiences reached.	<p>(Attachment 1) provides a tracking sheet of the installation's public education and outreach events.</p> <p>During 2023, Fort Carson conducted 1 stormwater construction training session to USACE representatives and contractors operating on post. Fort Carson provided 6 Environmental Protection Officer (EPO) courses to active-duty personnel assigned to locations where there are potential pollution sources. Throughout 2023, 151 people were trained.</p> <p>Factoring in Facebook postings and the Pollution Prevention Quarterly Online Newsletter (Attachment 13), this figure increases significantly to an undetermined amount.</p> <p>(Attachment 2) provides a training roster for the 2023 Construction Stormwater Training. EPO course are provided to soldiers and is categorized as sensitive information. Therefore, EPO course rosters are not included. (Attachment 17 Shows a "Green Car Washing FB Post)</p>	No

Public Education and Outreach on Stormwater Impacts (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

During the 2023 permit year, various PE&O training courses and events were conducted on Fort Carson. The Stormwater Program Manager was responsible for the coordination and implementation of the PE&O program. During 2023, the stormwater program conducted outreach using direct and indirect measures with a goal to target active-duty soldiers, their families, and all federal and contracted employees on post.

6 EPO courses and 1 Construction Stormwater Training were held in classrooms located in the Fort Carson DPW office. During these times, informational brochures were distributed to all attendees. LID O&M manuals and the "BMPs for Winter Maintenance Guide documents were distributed to Fort Carson's maintenance contractors. Facebook posts were used as indirect outreach to pass along vital information regarding pollution prevention. The P2 Quarterly Newsletter was distributed digitally to several sources on the Mountain Post. Figures for Dates, Course Rosters, Information Distribution, and copies of all outreach materials can be found in the attachments section at the end of this report.

2. Public Participation and Involvement

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for public participation and involvement on stormwater impacts for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.3.1 - Comply with applicable state and local public notice requirements when implementing a public involvement/participation program.	In permit year 2023, there were no public notices posted that relate to the public involvement/participation program under stormwater management. Notices for community involvement during environmental events were coordinated internally. Public notices are posted on every job site over 1 acre that has permitted coverage under the Construction general permit (CGP).	No
2.3.2 - Make all relevant Annual Reports available on the permittee web site or on another platform that is available to the public in an electron format.	MS4 Annual Reports are publicly available on the Fort Carson Stormwater Homepage. The homepage can be accessed at the URL provided on page 2.	Yes. The stormwater program will prepare to implement an event during the winter months for 2024. emphasizing water quality year round is important to maintain overall compliance.
2.3.3 - Provide volunteer activities (e.g., cleanup days) as practicable to help actively engage residents and personnel at Fort Carson in understanding water resources and how their activities can affect water quality.	Fort Carson engages the on post community by holding a minimum of two annual events. Earth Day and Make a Difference Day (MADD) are events where students, military personnel, the civilian workforce and residents participate in cleanups waterways that ultimately feed Fountain Creek. The Make a Difference Day event is an MWR held event and was canceled in 2023, therefore the stormwater program cannot report for the 2023 permit year The Earth Day 2023 Collage is available in (Attachment 18) Ft. Carson also participates in Creek Week; a 10 day watershed wide cleanup event.	

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.3.4 - Maintain a log of public participation and outreach activities performed in the permittee's SWMP.	Attachment 1 provides a log of the installation's public participation and involvement programs. In 2023 The Earth Day event involved 67 people	No
2.3.5 - Maintain a copy of the most recent version of the facility SWMP and permit in the publicly accessible format (e.g., available in electronic format, online or in a publicly accessible location)	The current Installation Stormwater Management Plan (SWMP) is posted to the Fort Carson Directorate of Public Works homepage, which can be accessed at the URL provided on page 2.	No

Public Participation/involvement (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

During permit year 2023, Fort Carson did not post any public notices specifically for stormwater public involvement/participation purposes. Fort Carson provides public transparency by posting each year's MS4 Annual Report on the Fort Carson Stormwater Program Homepage.

In 2023 Fort Carson held an Earth Day Celebration which included informational booths at the Post Exchange (PX) as well as waterway cleanups. 67 Volunteers from various areas of Ft Carson participated in these events. These training event records are kept on a running tracker spreadsheet available for view in Attachment 1.

3. Illicit Discharge Detection and Elimination

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for illicit discharge detection and elimination for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? Yes/No). If yes, provide information on proposed changes and rationale.
2.4.1 - Implement a program, policies, and/or procedures to detect and eliminate illicit discharges into its MS4. The program shall include procedures for detection, identification of sources, and removal of non-stormwater discharges from the storm sewer system. This program shall address illegal dumping to the storm sewer system, shall include inventories and investigations of interior floor drains in buildings for evidence of cross connections between the storm and sanitary sewer systems, and shall include training for staff on how to respond to reports of illicit discharges.	Fort Carson's illicit discharge program consists of education and training, spill response guidance and procedures, routine inspections, and illicit discharge surveys which includes dry weather monitoring. Fort Carson's spill response guidance is provided via the Directorate of Public works homepage accessible by the URL provided on page 2.	No
2.4.2 - Effectively prohibit, through ordinance or other regulatory mechanism available under the legal authorities of the MS4, non-stormwater discharges into the storm sewer system and implement appropriate enforcement procedures and actions	Fort Carson's spill response guidance is provided via the Directorate of Public Works homepage, accessible by the URL provided on page 2. Fort Carson maintains an installation-wide Spill Prevention, Control, and Countermeasure Plan, as required by 40 CFR part 112 which addresses the storage and management of petroleum oil and lubricant (POL) products. The Installations Stormwater Pollution Prevention Plan (SWPPP) addresses spills and illicit discharges in Section 3.1.4.	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.4.3 - Provide a mechanism for reporting of illicit discharges and provide this number on the Fort Carson stormwater website and any outreach materials, as appropriate.	Fort Carson has a spill line (526-0973) for the reporting of spills and illicit discharges which occur on the installation. The phone number for the spill line is posted to a variety of locations, including the Directorate of Public Works homepage, accessible by the URL provided on page 2.	No
2.4.4 - Investigate any illicit discharge within 15 days of its detection and take action to eliminate the source of the discharge with 45 days of its detection (or obtain permission from USEPA for such longer periods as may be necessary).	Upon notification of a spill of illicit discharge, an investigation of the situation is made within 24 hours to determine the source and cause of the discharge. If required, temporary control measures may be installed until a service order is executed to address the problem.	No
2.4.5 - Maintain an updated storm sewer system map. At a minimum, the map or system of maps maintained within a Geographic Information System (GIS) shall show jurisdictional boundaries, the location of all inlets and outfalls, names and locations of all waters that receive discharges from those outfalls, locations of post-construction BMPs installed since the effective date of this permit, and locations of all facilities operated by the permittee, including any public or private snow disposal sites. The map shall be available in electronic or digital format, as appropriate.	The Fort Carson Directorate of Public Works Geographic Information System (GIS) section maintains and updates the installation's storm sewer system map. The map contains the pertinent data for the installation's storm sewer system and is updated as collection systems change, or new construction is completed.	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.4.6 - Develop and maintain an Illicit Discharge Detection and Elimination (IDDE) tracking mechanism which tracks dry weather screening efforts and the location of remediation efforts to address identified illicit discharges.	The annual dry-weather screening was completed in October 2023. The screening identifies areas of concerns and rates these on a priority scale from 1-3. Potential illicit discharges or other conditions with a priority of 3 have service orders submitted ASAP and further investigated to assess if immediate controls can be applied.	No
2.4.7 - Conduct dry weather screening annually at each of the major drainages within Fort Carson (B-Ditch, Clover Ditch, Infantry Creek, Rock Creek) for the presence of non-stormwater discharges.	The annual dry-weather screening was completed in October 2023. Each drainage basin has several areas of concern that are screened annually. The screening identifies areas of concerns and rates these on a priority scale from 1-3. Potential illicit discharge or other conditions with a priority of 3 are further investigated to see if immediate controls can be applied. Service orders are then submitted accordingly	No
2.4.8 - Have a household hazardous waste collection day, as needed or as practicable, either as a separate Fort Carson activity or in conjunction with nearby civilian jurisdictions.	Fort Carson provides avenues for soldiers and families to turn in their hazardous wastes. Earth day provides a no appointment needed day to turn in waste. The Household Hazardous Waste Disposal Facility is located at 3255 Akers Dr.	No
2.4.9 - Stencil all storm drains (e.g., paint, placards, stenciling), as practicable, in all areas with industrial uses and residential uses by the end of year four of this permit.	During 2023, Fort Carson continued marking of storm drains, as needed, throughout the installation. New construction requires new marking and inventory updating	No

Illicit Discharge Detection and Elimination (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

Fort Carson saw 14 spills in 2023. Spill reports are kept on an internal server inside the designated stormwater folder. Spill reports are analyzed based on size, location, and circumstances to determine trends and recommend improvements in procedures and best management practices. Prevention procedures and best management practices are communicated to the Fort Carson community through the Environmental Compliance Assistance Team (ECAT), Environment Protection Officer (EPO) training, EPO refresher training and the installations Environmental Quality Control Committee (EQCC).

Fort Carson implements a robust program for identifying and eliminating illicit discharges. Through the Environmental Compliance Assessment Team (ECAT), Education and Outreach trainings, Spill Trackers, the Semi-Annual Water quality Sampling Report, the Illicit Discharge and Qualitative Assessment Report, Fort Carson is up to date with permit requirements outlined in section 2.4 of the MS4 permit.

Fort Carson turns to the EPO course as the regulatory mechanism to deter and prohibit illicit discharges. During this course, training is provided on the CWA and the legal ramifications of violating this act.

Through the Illicit Discharge program, the Hazardous Waste Program, and the Pollution Prevention Program categorical descriptions are given to allowable non-stormwater discharges that have the potential to be on Fort Carson. Many of these occur in the housing areas, such as landscape irrigation and individual residential car washing. Control measures are provided through direct and indirect resources, Fort Carson residents receive a quarterly pollution prevention newsletter (Attachment 13) which highlights various residential sources of pollution and how to prevent them.

As part of the Fort Carson Water Quality Program, an annual sanitary survey (Attachment 21) is conducted which assesses evidence of any cross connections between storm and sanitary sewer systems. As part of Fort Carson's ECAT Wastewater/Stormwater Checklist, inspections are conducted to ensure these areas are visually clean and clear of any debris, evidence of spills or foreign smells emitting from the drains. If the survey revealed a possible cross connection, the storm sewer would be immediately traced to find the outfall and assess the potential discharge. The sanitary line would be closed to prevent further contamination. Depending on the severity of the assessment, Fort Carson would report the finding to the EPA. Mitigation and remediation actions following, would be site specific but would include all efforts to contain and divert the sanitary discharge from exiting or traveling further.

Located in the IDDE Qualitative Assessment Report (Attachment 20) is information regarding location and method of dry weather screening. These locations include B-Ditch, Clover Ditch, Infantry Creek, and Rock Creek. Qualified personnel physically inspect the drainages looking for illicit discharge pipes, seeps, or other suspected flows. Fort Carson conducts various types of system investigations including collection system surveys, sanitary sewer inflow and infiltration surveys, and smoke tests. These surveys investigate system connections and functionality; and provide another mechanism for identifying potential illicit discharges and cross connections.

4. Construction Site Stormwater Runoff Control

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for construction site stormwater runoff control for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.5.1 - Require all contractors having a potential of disturbing one or more acres of land within the boundaries of Fort Carson to obtain NPDES permit coverage for their construction stormwater discharges under an applicable USEPA permit, and to comply with other applicable state or local construction stormwater requirements. For sites disturbing less than one acre, contractors shall comply with requirements as determined by the facility in its SWMP.	This requirement is fulfilled through several steps in Fort Carson's planning processes. Design plans for any new project go through a NEPA review. The Stormwater Program Manager reviews this data and makes determinations based on the scope of work in the plans. Projects expected to disturb 1 or more acres of land are required to submit a SWPPP, which then must be reviewed and approved prior to obtaining a NPDES permit. The SWPPP review template can be found in Attachment 3. For projects expected to disturb less than 1 acre, contractors are made aware of the requirements to install and maintain control measures throughout the life of the project.	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p>2.5.2 - Use an ordinance or other regulatory mechanism available under the legal authorities of Fort Carson to require erosion and sediment controls and sanctions to ensure compliance with the terms of the NPDES General Permit for Discharges from Construction Activities (Construction General Permit). This shall include working with contract officers to determine methods for stopping work or penalizing contractors who violate the terms of the aforementioned construction stormwater permit.</p>	<p>Fort Carson's stormwater program uses an SOP (Attachment 4) for construction site non-compliance. This memorandum for record outlines the procedures that Fort Carson will follow to ensure compliance during construction. This SOP references the GC Policy #17 and the determination to execute it when non-compliance become recalcitrant. Fort Carson's Garrison Commander's Policy Letter #17 (Attachment 5) is the installation's construction site stormwater program policy. It applies to all construction activities on post and provides potential sanctions for violations.</p>	<p>No</p>
<p>2.5.3 - Maintain a list of policies and procedures that can be used to enforce construction site compliance within Fort Carson, independent of USEPA staff directly enforcing the CGP.</p>	<p>Fort Carson's Garrison Commander's Policy Letter #17 is the installation's construction site stormwater program policy. It applies to all construction activities on post and provides potential sanctions for violations. The policy letter is posted to the Fort Carson Directorate of Public Works Homepage, accessible by the URL provide on page 2. Fort Carson's stormwater program uses an SOP for construction site non-compliance. This memorandum for record outlines the procedures that Fort Carson will follow to ensure compliance during construction. This SOP references the GC Policy #17 and the determination to execute it when non-compliance become recalcitrant.</p>	<p>No</p>

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.5.4 - Implement procedures for site plan review that incorporate consideration of potential water quality impacts.	<p>The Fort Carson Stormwater Program is integrated in the design review process and provides input on water quality at the 30%, 60%, 90% and 100% design reviews. Specific erosion and sediment control plans are reviewed separately and must be approved prior to a NOI being submitted by the contractor. Design reviews for Low Impact Development and compliance with EISA Section 438 are included in the process. Licensed Professional Engineers (PE) review design plans for all permanent water quality structures, using, among other programs, the Army LID Planning and Cost Tool. This software assists by determining the EISA runoff value calculations, through inputs of soil types, impervious surfaces, historic rainfall, etc. Fort Carson PE's also reference the UDFCD Drainage Criteria Manual V3C3 to calculate WQCV or LID structures. The Stormwater Program Management Team holds multiple certifications regarding control measure design and implementation. This team utilizes GIS models and imagery of stormwater infrastructure throughout Fort Carson when reviewing site plans. The US Army Core of Engineers (USACE) utilizes the MRSI Team for control measure design including LID and Green Infrastructure.</p>	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.5.5 - Implement procedures for receipt and consideration of information, including complaints of construction site non-compliance, submitted by the public	The CGP requires all construction sites with a NPDES permit to post a sign indicating where the public can access or request a copy of the SWPPP. The sign used on Fort Carson includes contact information for the stormwater program manager along with the USEPA Region 8. The public is encouraged to contact the Fort Carson stormwater program manager if they have concerns about operations at construction sites. Additionally, the Fort Carson spill line can also be used to report complaints.	No
2.5.6 - Review the SOW for construction projects to ensure that the SWMP and SCMs for erosion and sediment control and construction dewatering can be determined to be effective given the regulations and environmental conditions at Fort Carson.	Erosion and Sediment Control Plans are included in the design review process and are required in the Stormwater Pollution Prevention Plan, which must be approved by the Fort Carson stormwater program prior to a NOI submittal by the contractor. A copy of Fort Carson's SWPPP review form can be found in (Attachment 3) A SWPPP template is posted to the Fort Carson Directorate of Public Works homepage, accessible by the URL provided on page 2.	No
2.5.7 - Implement an inspection plan and keep a copy of that plan in the SWMP which provides inspection triggers and required timeframe upon which construction sites must be inspected by Fort Carson staff. All sites within this plan must be inspected, at a minimum, quarterly	Fort Carson executes inspections of construction sites on a quarterly basis to check compliance with the MS4 and CGP permits. Inspection reports are maintained on internal storage drives but are available if requested. Findings are provided to the projects management team for action, if required. Follow up inspections are executed, as required, to verify corrective actions. Drive by inspections are also conducted to check on project progress and to maintain situational awareness of construction activities.	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
<p>2.5.8 - Maintain a site inspection form in the SWMP for use by Fort Carson construction management and oversight personnel when performing inspections required by Part 2.5.7.</p> <p>2.5.9 - Maintain and utilize a NOT form or alternative process for Fort Carson, independent of the CGP NOT form, and have Fort Carson stormwater staff inspect all construction sites prior to termination to ensure that 70 vegetative cover has been met at all areas of the site.</p>	<p>Fort Carson uses a standardized inspection form to inspect construction sites. Hard copies of the form are used to record notes in the field. The notes are then transferred to electronic inspection forms. Inspection results are provided to the project's management team for action. A copy of the form is included as Attachment 6.</p> <p>Fort Carson uses a Notice of Termination (NOT) form to document compliance with the final stabilization requirements of the CGP. NOT inspections are scheduled with the contractor and the project management team. If all requirements are met, a completed NOT form is issued to the project manager, and the contractor is then authorized to terminate the NPDES construction permit.</p> <p>In 2022 verbiage was changed in the NOT Form from 70% pre-development vegetative cover" to "70% native undisturbed vegetative cover". A copy of the NOT inspection form is included as (Attachment 7). During 2023, Fort Carson completed 19 NOT Inspections, resulting in successful completion of final stabilization requirements.</p>	<p>No</p>

Construction Site Stormwater Runoff Control (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

Fort Carson's Stormwater Program tracks all regulated construction activity through the "CGP Tracker" Spreadsheet (Attachment 22). This tracker, records NPDES ID#, Site Locations, POC, SWPPP Administrators, and Quarterly Inspection Frequencies.

Fort Carson's Garrison Commander's Policy Letter #17 is the installation's construction site stormwater program policy. It applies to all construction activities on post requiring the installation of erosion and sediments controls, and provides potential sanctions for violations. The policy letter is posted to the Fort Carson Directorate of Public Works Homepage, accessible by the URL provide on page 2.

Fort Carson's stormwater program uses an SOP for construction site non-compliance. This memorandum for record outlines the procedures that Fort Carson will follow to ensure compliance during construction. This SOP references the GC Policy #17 and the determination to execute it when non-compliance become recalcitrant.

During the 2023 permit year, Fort Carson did not have to escalate enforcement actions by means of sanctions. Construction sites that presented as non-compliant were address through inspection reports and corrective action forms. The issue was resolved in a timely manner and no further regulatory action was needed on the part of Ft Carson.

When new projects are disseminated through USACE, an outside contractor or internally through the DPW, they undergo the same review processes regardless of the potential scope of work. An initial NEPA review action is implemented to understand the scope of work and identify the need for a SWPPP draft and an EPA NPDES permit. If a SWPPP is required, the Stormwater Program evaluates it using the SWPPP review checklist located in

(Attachment 3). SWPPP maps are reviewed for control measure locations and compared against our stormwater infrastructure maps to rule out any potential impacts to water quality.

The Fort Carson MS4 permit, dictates that permitted projects under an EPA NPDES permit are inspected on a quarterly frequency utilizing the CGP inspection template located in (Attachment 6). This inspection schedule is maintained using the CGP tracker. Between quarterly inspections, the stormwater program conducts unscheduled and drive-by inspections. As is outlined in the SOP for CGP No-Compliance, the operator will be required to make corrections immediately if feasible and by the COB the following, day if not. Priority is established by evaluating the ongoing potential to effect water quality downstream from said corrective action.

Fort Carson's Stormwater Program is coordinated and implemented by the Stormwater Program Manager, Andrew Rippe. Required permit items are tasked out to contracted specialist. These tasks include, but are not limited to, outfall sampling, CGP and MSGP quarterly inspections and IDDE reports.

5. Post-Construction Stormwater Management in new Development and Redevelopment

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for post-construction stormwater management in new development and redevelopment for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
4080"/"Guxcdnkuj "cpf "ko r rgo gpv'c" r tqegu'u'v'g'p'uw't'g'y'j'cv'cm'p'gy "cpf " tg/f'gx'g'r'o'gpv'r'tql'ge'u'y'cv" f'kw't'd'gs'wcn'v'q't'i'tgc'vt'y'cp" qpg'cet'g'cpf'y'cv'f'k'ej'cti'g'lp'v'q" r'gto'kw'gg'au'uo'cm'O'U6'ct'g" f'guki'pgf'cpf'eq'p'ut'we'v'gf'y'kj " r'gto'cpg'pv'r'qu'v'eq'p'ut'we'v'kp" u'q'to'y'cv'gt'eq'p'ut'q'n'o'gc'uw't'gu" f'guki'pgf'v'q'r'tgx'gp'v'q't'o'kp'o'k'g" y'cv'gt's'wcn'v'q't'o'ko'r'cew'v'uk'pi " ut'we'v'wt'cn'q't'p'q'p'ut'we'v'wt'cn'DO'Ru." cr'r'tqr'tlc'v'g'v'q'H'qt'v'E'ctu'qp'0'	Design reviews for permanent post-construction stormwater control measures and compliance with EISA Section 438 are included in the process. Licensed Professional Engineers (PE) review design plans for all permanent water quality structures, using, among other programs, the Army LID Planning and Cost Tool. This software assists by determining the EISA runoff value calculations, through inputs of soil types, impervious surfaces, historic rainfall etc. Fort Carson PE's also reference the UDFCD Drainage Criteria Manual V3C3 to calculate WQCV or LID structures. The Fort Carson Stormwater Program is integrated in the design review process and provides input on water quality at the 30%, 60%, 90% and 100% design reviews. If the project is over 5,000 square feet in size, the design engineer is required to complete the "Maintaining Hydrology on Army Construction Projects", which documents what control measures will be used to prevent or minimize water quality impacts resulting from the project.	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.6.2 - For purposes of this permit, such BMPs shall be selected based on their ability to maintain on site predevelopment runoff conditions and be implemented on site, except to the extent it is impracticable to do so.	As part of the design process, the design engineer submits the LID Design and Cost tool. This software assists by determining the EISA runoff value calculations, through inputs of soil types, impervious surfaces, historic rainfall, etc. This process outlines the specific BMPs that will be used to maintain on site pre-development runoff conditions.	No
2.6.3 - To the extent the permittee determines it is impracticable to maintain predevelopment runoff conditions by implementing such BMPs at a new or redevelopment site, it shall install or utilize, and maintain alternative stormwater control measures to prevent or minimize water quality impacts from runoff from the new or redevelopment site.	If the design engineer cannot meet the requirements of maintaining onsite predevelopment runoff conditions, the reasons why are documented in “Maintaining Hydrology on Army Projects”, which is maintained in the project file. During 2023, no projects were deemed to be impracticable to maintain predevelopment runoff conditions.	No
2.6.5 - When updated, include hydrologic performance specifications and information related to the design and maintenance of permanent stormwater control measures in natural resource plans.	Hydrologic performance specifications and information is included in the project’s basis of design and is maintained by the project management team.	No
2.6.6 - Include post-construction BMP “as-builts” for all newly installed permanent stormwater control measures in a georeferenced data management system.	The collection of “as-built” drawings and associated cut sheets are part of project close out. Deliverables are collected by the project management team and are provided to the DPW GIS section for inclusion in the installation’s GIS database.	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.6.7 - Ensure all newly installed post-construction stormwater control measures are working as designed prior to closing out contracts.	Post-construction stormwater control measures are included in the NOT inspection process. Control measures not operating properly are addressed through the warranty process.	No
2.6.8 - Upon closeout of new construction projects, include maintenance requirements for newly installed permanent post-construction stormwater control measures into a long-term maintenance plan (e.g., the recurring work program).	Newly installed permanent post-construction stormwater control measures are added to the base operations contractor's technical exhibit for long-term maintenance. The technical exhibit is updated annually. Upon inspection of control measure, service orders are submitted for general maintenance and repairs	No
2.6.9 - Ensure that permanent post-construction stormwater control measures are included in any applicable warranty reviews	Stormwater control measures are part of the NOT inspection process. Control measures which are not operating properly are addressed through the warranty process. The warranty process is part of the contract language for projects constructed by outside contractors and not DPW or USACE directly. The warranty period last for 1 year after the project closeout. The warranty covers functionality of permanent control measures and methods of final stabilization. When the warranty period expires and concerns arise, the maintenance work is submitted through the Army Maintenance Online portal and the on site contracted maintenance organization is tasks to perform this maintenance In some cases, the SWPPP Administrator for the project is a third party contractor and will have an additional warranty agreement with the general contractor for the project.	No

Post-Construction Stormwater management in New Development and Redevelopment (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

During permit year 2023, the Stormwater Program Manager was responsible for the coordination and implementation of the post-construction stormwater management program. In 2023, there were no projects that were deemed impracticable as described in part 2.6.4 of the permit. When a permanent post-construction stormwater control measure goes on-line, there are procedures in place to ensure the long-term operation and maintenance.

The stormwater program conducts annual inspections of all post-construction stormwater control measures per the MS4 permit. These inspections analyze the components of the water quality structure including but not limited to, inflow points, fore-bays, outlet structure, embankments, and the overall function. The inspection is then given a letter grade from A-F depending on the assessment:

- A. Passed inspection; no deficiencies found; no maintenance required.
- B. Passed inspection; minor deficiencies found; functionality not impaired; continue to monitor
- C. Minor to moderate deficiencies found; functionality impaired; routine maintenance recommended
- D. Moderate to severe deficiencies found; functionality impaired; maintenance recommended
- F. Severe deficiencies found; functionality impeded; immediate maintenance recommended

Fort Carson tracks 156 LID features (Attachment 23) to include bio-retention basins, detention and retention ponds and permeable pavers. LID features are assigned an ID # determined by their watershed and physical location. The LID feature inventory tracker maintains the structures that have been and need to still be inspected for the permit year. When maintenance is needed on a LID feature, a service order is submitted through armymaintenance.com (ArMA) and is assigned to the contracted maintenance organization. The ArMA system tracks the submittal from cradle to grave and notifies the submitter when the action is complete.

Additionally, when a project creates an impervious area larger than 5,000 SF it requires the preparation of the Low Impact Development (LID) Planning and Cost Tool (Attachment 24) and Report to comply with EISA Section 438. The "Maintaining Hydrology on Army Construction Projects" form must be completed by the LID Designer of Record and submitted to the COR and Fort Carson Stormwater Program Office with the final design package. LID information and the cost tool can be found at: <https://mrsi.erdc.dren.mil/sustain/cx/lid/>

The Integrated Natural Resources Plan (INRMP) does not specifically speak to planning of permanent stormwater control measures. When planning for permanent stormwater control measures, the plan of action that Natural Resources uses, begins with a WOTUS determination to maintain compliance with all 404 permit requirements. Then the proposed feature is reviewed against the US Army Core of Engineers Regional General Permit No. 14.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

Provide the status of any measurable goal scheduled for completion during the reporting period or for which activities have begun. For program elements started, but not completed, any milestones that have been met must be indicated. If a change will be proposed to the BMP or measurable goal as part of the annual report, this must be stated and the proposed changes discussed. For each change proposed, you must provide information on:

1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
3. Any proposed changes to the measurable goals (including specific dates and measures); and
4. The rationale for the proposed changes.

Describe any measurable goal(s) for pollution prevention/good housekeeping for municipal operations for the reporting period; including dates and numeric measures:

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.7.1 - Provide annual training for facility maintenance contracted companies, environmental program managers, and other people identified in line with the SWMP. Each of the categories of municipal activities reference in the SWMP should receive stormwater training.	Annual pollution prevention training is provided through various methods for units, the base operations service contract, and construction contractors. EPO training is given to personnel operating within areas that have the potential to pollute water quality. On the spot "opportunity training" is provided through stormwater and ECAT inspections and engagement with operators and contractors throughout the year. Additionally, each facility is provided a pollution prevention poster, which is included as (Attachment 8).	No
2.7.2 - Provide deicing training to minimize the use of and runoff from chemical deicers and traction aggregates.	Fort Carson does not conduct chemical deicing of aircrafts at Butts Army Airfield. Fort Carson does employ chemical deicing of installation roads within the cantonment area to enable the safe operation of military and civilian traffic. Fort Carson conducts annual pollution prevention training for winter maintenance operations a This training document is provided in (Attachment 9).	No

Measurable Goal(s) Including dates and numeric measures, as previously submitted	Status: Including dates and numeric measures	Changes proposed to BMP and/or Measurable Goal? (Yes/No). If yes, provide information on proposed changes and rationale.
2.7.3 - Implement a schedule for cleanout of storm sewer inlets in a manner that prevents significant deposition of sediment or other debris to receiving waters and provide data or a description of this schedule and its implementation in the SWMP for the facility.	All storm sewer inlets are inspected and cleaned annually through a schedule maintained by the base operations contractor. If inlets are discovered that require maintenance between the annual inspections, a service order is submitted through the Army Maintenance online portal. A Completed ArMA request can be viewed at (Attachment 25)	No
2.7.4 - Implement a schedule for sweeping streets in a manner that prevents significant deposition of sediment or other debris to receiving waters and provide data or a description of this schedule and its implementation in the SWMP for the facility.	Primary streets are swept monthly; secondary streets are swept every other month. Parking lots are swept twice a year. If an area is identified that requires additional sweeping, a service order is generated to the base operations service contractor to address the condition.	No
2.7.5 - Consider the need for the application of cover to prevent airborne deposition of particulates from storage piles at the municipal materials storage yard.	Fort Carson employs water to moisten storage piles to reduce the incident of materials being transported in the air and depositing outside of the storage area. Additionally, permitted construction activities are required to manage stock piles and ground surfaces for dust and airborne pollutants.	No.

Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

Narrative description. Provide any descriptions which may further describe the implementation of this minimum measure. Such narrative may include descriptions of efforts which overlap several minimum measures or descriptions of documents or programs which have been created in an effort to implement this minimum measure:

On Fort Carson, the Pollution Prevention and Good Housekeeping Program is accomplished through different methods. First, the Directorate of Public Works institutes a training program which targets soldiers and employees operating in locations where the potential for pollution is increased. The Environmental Protection Officer (EPO) course is held every quarter and engages attendees on multiple areas of concern regarding pollution prevention. During the EPO course, short lectures on topics such as hazardous waste storage, toxins, spill response and pollution prevention are given. Course attendance is trending upward as the leadership element on Fort Carson becomes more aware of the need for proper pollution prevention training and accountability. Soldiers who receive this training return to their assignments and educate the staff around them. Fort Carson has roughly 30,000 personnel assigned to this location and tracking every soldier is a monumental task. Course rosters are recorded with every class given. Names and Unit Identification are categorized as sensitive information. This information will not be included in this annual report. Redacted copies are available upon request.

Fort Carson tracks all open and closed style wash racks. Wash rack clean outs are arranged on a "as needed" basis. (Attachment 26) shows the wash rack inventory as of 2023. Prior to any clean out activities, wash rack materials are sampled to determine if they are hazardous or non-hazardous. After a determination is made, the contractor, (Twin Environmental, a subcontractor to Sol Solutions) has personnel remove sediment/sludge/debris from the rack. For open, "bird bath" style wash racks, they are usually cleaned with front loader, removed material placed in a lined roll-off, and material hauled off site for disposal. For grated, "sand trap" style wash racks, the contractors usually remove material with a vacuum truck.

Fort Carson contracts out street sweeping to reduce sediment deposition from entering receiving waters. T&H Services implements a maintenance schedule for street sweeping. T&H also responds to all service orders submitted by Fort Carson personnel. Service orders are tracked using the Army Maintenance (ArMA) online portal. Throughout the permit year, Fort Carson's ECAT members are assigned to different locations across the MS4 permitted area. The members spend time with the boots on the ground, especially with those in command roles, at our sites with the potential for pollutants to leave the site. Many times, ECAT will provide on the spot training to soldiers and civilians, and it is not always practical to have a roster of these training engagements.

Every month ECAT conducts Parking lot monitoring at all parking areas around the barracks on Fort Carson. (Attachment 10) is an educational brochure stating that oil changes in barracks parking lots are prohibited. It details where you can change your oil and dispose of used oil on post. Fort Carson implemented a catch vaults program in motor pools. ECAT monitors these BMPs monthly and after rainfall events and either cleans out any residue and debris or releases the water to the overall MS4. (Attachment 28) is the GC Policy #6-Privately Owned Vehicle (POV) Maintenance Policy. This is a memo addressed to owners and operators of POVs which gives guidance on how to properly maintain vehicles and the cleanup requirements pertaining to any leaks and spills.

Evaluations are performed daily as a secondary initiative to the routine visual assessments made by the ECAT, the Stormwater Program and other DPW Staff. Street Cleaning Operations are performed by a third party contractor. This work is not coordinated through the Stormwater Program. T&H, the third party contractor follows a weekly sweeping schedule and reports directly to the Base Operations Contracting Officer Representative. The stormwater program as well as DPW staff will submit service orders which reinforces the regular schedule and T&H will perform the duties required. The stormwater department does not have a formal tracking mechanism as this work takes place outside of this department. 19 Catch vaults are tracked and visually inspected on a monthly basis. Catch basin clean outs are submitted through ArMA and handled by T&H Services. When catch vault clean out operations are complete, the ECAT is notified and does another visual assessment.

E. Results of Information Collected and Analyzed.

If you have collected and/or analyzed information during the reporting period, including any monitoring data used to assess the success of the program at reducing the discharge of pollutants, submit a short summary of the information and any analysis completed.

Measurable Goal	Results of information collected and analyzed that must be reported for this item
MS4 Semi-Annual Water Sampling	Fort Carson conducted two surface water sampling events during 2023. The sampling evaluates the four major cantonment drainages (B-Ditch, Clover Ditch, Infantry Creek, and Rock Creek). The sampling efforts detected water quality exceedances for ammonia, selenium, phosphorous, and E. coli. in some areas.
MSGP Impaired Waters Sampling	Impaired waters sampling was conducted at the Wastewater Treatment Facility outfall due to the presence of E.coli during permit year 2. The 2023 WWTF sample was a non-detect. Fort Carson will continue the annual impaired waters sampling in 2024.
MSGP Quarterly Analytical Sampling	<p>Analytical sampling was conducted at the following locations at Fort Carson during 2023:</p> <p>Sector K Facilities- Range 121 (Demolition Range) and Hazardous Waste Storage Facility,</p> <p>Sector T Facilities- WWTP</p> <p>Sector P Facilities- Railroad Switching and Termination Establishment, and</p> <p>Sector S Facilities- Arrival/Departure Airfield Control Group.</p> <p>During 2023 there were no analytical results that required Additional Implementation Measures (AIM). Fort Carson addresses any issues through implementation of better material handling procedures, storage BMPs, stormwater controls, and pollution prevention. Performance indications for newly added BMPs will be monitored. The results of the sampling are included in the 2023 quarterly discharge monitoring reports in the NetDMR system. These records are available by request.</p>

Measurable Goal	Results of information collected and analyzed that must be reported for this item
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MSGP Visual Assessments	In 2023, 5 sites were monitored per the MSGP. Each sampling location is assessed quarterly, resulting in 19 visual assessments in 2023. One visual sampling event at the ADACG was not completed due to unsafe conditions at the site. Out of 19 assessments, the majority presented as clear and a few had some settled organic matter. These visual assessments indicate that the pollution prevention control measures appear to be working and that operators are complying with the installation stormwater policies
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F. Summary of Inspections and Enforcement Actions.

Provide a summary of the number and nature of inspections and formal enforcement actions performed. Site-specific information may also be included, but is not required.

Program Area	Description of Enforcement Actions/Inspections
Construction General Permit-Quarterly Construction Stormwater Inspections	The Fort Carson Stormwater Program conducted 96 construction inspections at 40 CGP sites during 2023. Inspections were conducted quarterly with some sites being inspected subsequently as part of the follow up from previous inspections. The inspections were documented in the DPW R Drive and provided to the project manager and contractor for inclusion with the project SWPPP. These inspection reports are available upon request. While inspections routinely revealed findings of non-compliance with the CGP, generally the findings tended to be minor in nature and were corrected well within the timelines specified by the CGP.
Multi-sector General Permit-Quarterly Routine Facility Inspections	In 2021, the number of industrial sites from Fort Carson was reduced to 5 sites after an exemption in the regulation was applied, in accordance with the 2021 renewal of the MSGP. The Fort Carson Stormwater Program conducted a total of 20 routine inspections at 5 sites during 2023. Deficiencies identified during the routine inspections were addressed through corrective action forms.
Stormwater Control Measures-LID Feature Annual Inspections	The Fort Carson Stormwater Program conducted performance inspections on 152 LID features in the cantonment area during 2023. LID features that required routine maintenance had work orders submitted through ArMA. The LID inspection reports for 2023 are available upon request. Fort Carson works with GIS to ensure the most up to date inventory of LID features is available and inspected.

G. Proposed Changes to the Stormwater Management Program

Provide a narrative description of any changes or additions to the stormwater management program.

The Stormwater Department is prepared for the new MS4 Permit renewal set to take place at a point in the near future. The SW Program will re-write the existing Stormwater Management Plan to mirror the new requirements set forth in the permit renewal. Because of the additional sampling and/or monitoring requirements in the next permit, Ft. Carson has budgeted and is preparing personnel regarding these additions.

Fort Carson will continue to update its training materials to effectively reach individuals operating with and around pollutants that could impact stormwater quality.

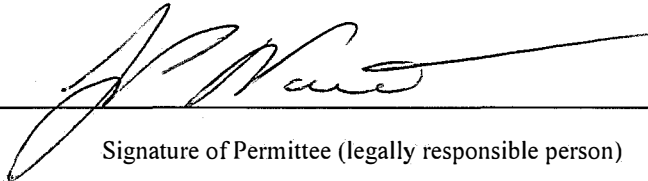
Review and update the Garrison Commander's Policy Letter #17 periodically. Update the document to reflect new individual holding the Garrison Commander title. Update the Stormwater Management Plan, as necessary.

H. Notice of Program Element Operation by a Second Party

Another government entity may be relied on to perform requirements of your MS4 permit. However, as the permittee, you remain liable for compliance with the terms of the permit if the requirements are not fulfilled. You must complete this annual report for the geographic areas covered under your permit, for all program areas, even if one or more program elements/areas is being performed by another entity. (However, if you are performing a program element for another permittee, you do not need to include that activity in this report.) If you are relying on another government entity to satisfy some of your permit obligations (and if the information has not been previously provided to the EPA in earlier reports or the application), the annual report must include a statement to that effect. If the BMP and/or measurable goal will be modified in addition to the change of operator to another government entity, the change must be included in Item G, above. Example statement: "As of September 15, 2003, Monroe County is performing the construction site plan reviews for the Nixon Air Force Base in accordance with the procedures in the Base's original application."

I. Certification

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Signature of Permittee (legally responsible person)

March 29, 2024

Date Signed

John Wachter

Acting Director, Directorate of Public Works

Name (printed)

Title

This report may be signed by a duly authorized representative of the permittee in conjunction with the signatory requirements for NPDES permitting provided at 40 CFR 122.22(b).