



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

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

<http://www.epa.gov/region8/stormwater>

### 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 recordkeeping 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 mailed to:

Amy Maybach  
EPA Region 8 Stormwater Coordinator  
Mail code: 8WP-CWW  
1595 Wynkoop Street  
Denver, CO 80202-1129  
Email: [Maybach.Amy@epa.gov](mailto:Maybach.Amy@epa.gov)

**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):

Mailing Address:

City, State and Zip Code:

Contact Phone Number:

Permit Certification Number:

Have any areas been added to the MS4 due to annexation or other legal means?

**B. Reporting Period:** January 1, 2023 – October 31, 2023

### C. Construction Program Contact:

The following information will be provided on the Environmental Protection Agency's (EPA) 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?

If Yes:

Contact name:	Matthew Rodgers
Position/work group title:	Chief, Environmental Element
Contact phone number:	720-847-7245
Contact E-mail address:	matthew.rodgers.7@spaceforce.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:

### 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 Best Management Practice (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.
<u>PEO-1 Household Hazardous Waste and Stormwater Awareness</u>  1. Provide stormwater awareness at least twice per year during Newcomers Orientation	<b>COMPLETED</b>  In Permit Year 10 environmental awareness materials and information were provided by 460 CES/CEIE Environmental Element eleven (11) times in 2023. The month of March was missed due to CES/CEIE personnel unable to access the building.  Materials were provided in person. Copies of the environmental materials, slides and information provided can be found on pages 4-9.	No
2. Provide environmental protection awareness materials to new housing residents, including household hazardous waste.	<b>COMPLETED</b>  Copies of the environmental protection awareness materials were provided by 460 CES/CEIE Environmental Element staff in January, February, April, May, June, July, August, September, October, November, and December 2023 during the Newcomers orientation. Copies of the environmental awareness materials and information provided are presented on pages 4-9.	No



## 460th Civil Engineering Squadron

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### Environmental Office

460 CES/CEIE Element Chief  
Matthew Rodgers  
720-847-7245  
[matthew.rodgers.7@spaceforce.mil](mailto:matthew.rodgers.7@spaceforce.mil)

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Welcome to  
the  
Centennial  
State!



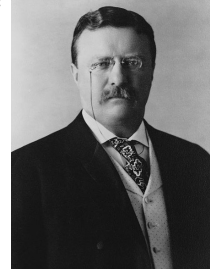
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## Sustainability and Defense

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- DoD is the largest institutional consumer of oil in the world (100M+ barrels/year)
- Resources have driven conflict for time immemorial (e.g. salt, oil, gas (nordstream) and likely water)
- Climate change will likely drive additional military burden/conflict due to extreme weather, droughts, mass migrations and new resources available in the arctic
- Reducing/eliminating fuel reliance reduces logistics burden incalculably and one of the most perilous jobs in the military – fuel supply convoys
- Environmental/Sustainability issues are now key to ensuring *enhancement* of the mission in terms of *credibility*, *lethality* and *safety*
- "The conservation of natural resources is the fundamental problem. Unless we solve that problem it will avail us little to solve all others." – TR



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## Vehicle Emissions Test

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- Clean Air Act, Denver and Buckley require an emissions (smog) test on Federal Facilities if you operate a vehicle more than 60 days per calendar year, **regardless of where your vehicle is registered**
- Testing locations can be found at [AirCareColorado.com](http://AirCareColorado.com)

### Emissions Test Exemptions

- Gas Vehicles 7 years old or newer
- Diesel Vehicles
- Electric/Hybrid Vehicles
- Motorcycles
- Natural Gas/Propane Vehicles
- Pre-1975 Collector-Plated Vehicles
- Pre-1980 Two-Stroke Engine



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## Employee-Vehicle Certification and Reporting System (ECARS)

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- You must document compliance and self-certify your requirements in the web-based "Employee Vehicle Certification & Reporting System" (ECARS) at <https://apims.af.mil/apims/ecars/disclaimer.jsp>
- **All vehicles parked on base 60 or more days per year must be registered in ECARS even if vehicle is exempt from emissions test**
- Email Jeff Harrison at [jeffrey.harrison.6@spaceforce.mil](mailto:jeffrey.harrison.6@spaceforce.mil) to register



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## Recycling

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- The Buckley SFB recycling program uses single-stream collection, the same type of collection typically used in households. There may be marked recycling dumpsters (like this one) near your building. **Please note that all dumpsters are for government use only (no personal property)**



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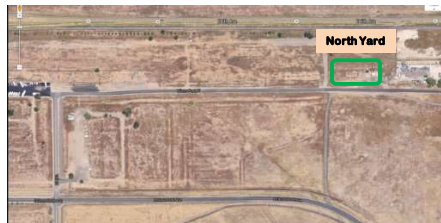
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## The North Yard

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- The North Yard is a recycling area that accepts scrap metal and pallets for recycling
- Located about ¼ mile east on Winter Park Place from Vail and Winter Park Place intersection, there is small pull off to a locked gated area on the left
- The North Yard is by appointment only. Please contact Ethan Woodard at [ethan.woodard.1@spaceforce.mil](mailto:ethan.woodard.1@spaceforce.mil) to schedule an appointment



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## Water

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- Colorado is a headwaters state. Our actions can adversely affect millions of other users downstream of us!
- Use Best Management Practices (BMPs) to ensure no chemicals enter storm drains or contaminate soil. Examples of BMPs include secondary containment, storage lockers, spill kits, etc.
- If you have a spill, contact the Environmental Office at 720-847-4655 and the Fire Department at 720-847-9117



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## Natural & Cultural Resources

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- Buckley SFB is home to many species to include: Golden Eagle & Lark Bunting (CO State Bird);



- Buckley SFB has 11 buildings currently eligible for listing on the Nat'l Register of Historic Places and 31 affiliated Tribal Nations



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## BUCKLEY SPACE FORCE BASE ENVIRONMENTAL COMMITMENT STATEMENT

### ENVIRONMENTAL MANAGEMENT SYSTEM

The process by which we improve our environmental performance. This system follows a cyclical procedure of plan, do, check and act.



At BSFB we strive for continual improvement by:

- Being exemplary stewards of Cultural Resources through protection of historic properties/sites and by continuing to build on a foundation of trust and transparency with our Tribal partners
- Addressing Denver Metro Area concerns of especial importance, such as air and water quality, through best management practices and education across BSFB, including contractors and tenants
- Ensuring previously contaminated areas are managed and mitigated in a manner that promotes communications and builds consensus between all stakeholders

SBD 2 and its installations are dedicated to protect the environment while fulfilling its mission to "Deliver unrivaled combat support to our Joint mission partners and Allies, enabling uninterrupted missile warning, intelligence, and cyber operations." Every military member, civilian and contract employee at SBD 2 shall comply with relevant environmental laws and regulations, Executive Orders, DoD and DAF policy.

To ensure Environmental Management System (EMS) success, SBD 2 shall:

- Integrate environmental compliance & planning with SBD 2 mission at all levels of management and decision-making.
- Reduce waste generation and prevent pollution via innovation, effective facility management, and sound procurement practices.
- Maximize CFT participation by appointed organizations listed in the SBD 2 CFT Membership Memorandum

For questions, contact 460 CES/CEIE at (720) 847-9268

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## EMS General Awareness Training

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- EMS General Awareness training is a mandatory one-time training for all installation personnel
- The training can be accessed without a CAC and is available on The Environmental Awareness Course Hub (TEACH) at <https://usaf.learningbuilder.com/account/login> under the course number EMS100AFIT00004



The Environmental Awareness Course Hub  
(TEACH)

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## 460th Civil Engineering Squadron

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### Questions?



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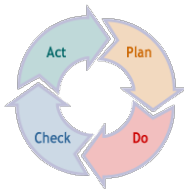
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# Environmental Commitment Statement

## ENVIRONMENTAL MANAGEMENT SYSTEM

The process by which we improve our environmental performance. This system follows a cyclical procedure of plan, do, check, and act.



At SBD 2 and its installations we strive for continual improvement by:

- Being exemplary stewards of Cultural Resources through protection of historic properties/sites and by continuing to build on a foundation of trust and transparency with our Tribal partners
- Addressing Denver Metro Area concerns of local and regional importance, such as air and water quality, through best management practices and education across SBD 2 and its installations, including contractors and tenants
- Ensuring previously contaminated areas are managed and mitigated in a manner that promotes communication and builds consensus between all stakeholders including those in the surrounding community

Approved by BSFB ESOHC: 20 Apr 2023

**SBD 2 and its installations are dedicated to protecting the environment while fulfilling its mission to “Deliver unrivaled combat support to our Joint mission partners and Allies, enabling uninterrupted missile warning, intelligence, and cyber operations.” Every military member, civilian, and contract employee at SBD 2 and its installations shall comply with relevant environmental laws and regulations, Executive Orders, DoD, and DAF policy.**

**To ensure Environmental Management System (EMS) success, SBD 2 and its installations shall:**

- **Integrate environmental compliance & planning with SBD 2 and its installations’ missions at all levels of management and decision-making.**
- **Reduce waste generation and prevent pollution via innovation, effective facility management, and sound procurement practices.**
- **Maximize CFT participation by appointed organizations listed in the SBD 2/CC CFT Membership Memorandum.**
- **Minimize environmental risk through effective monitoring and evaluation of operations.**

**For questions, contact 460 CES/CEIE at (720) 847-9268**

## 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:

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:

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

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>PEO-2 Hazardous Waste or Stormwater Management Related Article</u>  1. Publish one hazardous waste or stormwater management article on the Buckley SFB website that discusses hazardous waste management and/or stormwater discharge impacts that may include options for disposing of household hazardous waste, pollution prevention, or other related information.	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. PEO-2 is reported in the 1 November – 31 December 2023 annual report iteration.	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:

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<u>PEO-3 Sediment and Erosion Awareness Training for Industrial Stormwater Personnel</u>  1. Provide training at least once per year and maintain attendance record.	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. PEO-3 is reported in the 1 November – 31 December 2023 annual report iteration.	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:

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<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>PEO-4 Sediment and Erosion Awareness Training for Facility Managers</u>  1. Provide Group Facility Manager trainings at least annually and maintain attendance record.	<b>COMPLETED</b>  The Group Facility Manager trainings are held monthly. These trainings occurred during 2023 on 25 January, 8 February, 8 March, 12 April, 17 May, 7 June, 26 July, 20 September, 8 November, and 6 December with individual Facility Manager trainings provided as needed.  The session included the required sediment and erosion awareness information. The training was presented by multi-discipline 460 CES/CEO, /CEIE, and /CEN flight staff using a PowerPoint slide presentation. The environmental portion of the training, which is presented by 460 CES/CEIE staff, is available below.	No



## Environmental Office

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**Mr. Matthew Cohen**  
**(720) 847- 4655**



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460th Civil Engineer Squadron



## Recycling

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- The Buckley SFB recycling program uses single -stream collection. There are marked recycling dumpsters (like this one) near your building



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## Environmental Management System

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- Environmental Management System (EMS) is the overall umbrella of the environmental programs (Hazmat, Hazwaste, Recycling, Air, Water, Natural Resources, etc)
- Value our natural resources and managing them wisely
- Follow all applicable environmental laws
- Educate our workforce to be environmentally friendly
- Develop and maintain programs that limit environmental impact
- Set and review environmental quality objectives and targets
- Recognize that environmental impacts from our work processes can also affect national security

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## Recycling Turn-in

**Scrap Metal Recycling Receiving Yard, a.k.a. North Yard**  
(Call Mr. Ethan Woodard at (720) 847-723 to make an appointment)



Recycle scrap metals and wood pallets at the North Yard.

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## Hazwaste

- Environmental holds government hazardous waste/universal waste turn-in every Thursday at 1300 or by appointment 720 - 847-7795 (Building 1025 on Camp Hale Way)



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## Water Quality

### Sanitary Sewer-

- Do not pour chemicals or oils down the sink or discharge to the sanitary sewer
- Call the Water Quality Program Manager, (720) 847-4655, if a chemical is discharged into sanitary sewer.

### Tap Water-

- If tap water looks or smells different than usual,
  - Call Bioenvironmental Engineering at (720) 847-6384 to test the water.
  - If appears urgent, call CE Operations Support, Customer Service (720) 847-9913

### Storm Water-

- Only rain down the drain.
- Sediment is the #1 source of surface water pollution in the world



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## Storage Tanks

- Containers that store petroleum, oils, or lubricants (POL) that have the capacity to store 55 gallons or more of POL per US EPA
- Who is responsible for the tanks at Buckley SFB?
  - The owning organization
- The Facility Manager should:
  - Know the tank manager (Mr. Matt Cohen at (720) 847-4655)
  - Be familiar with emergency spill procedures
    - Have contact information for the tank manager in case a spill occurs
    - Know location spill response materials
    - Call Fire Department **911 (On BSFB) or (720) 847-9117**
- Any questions about storage tanks at your facility please notify BSFB Tanks Program Manager, Mr. Matt Cohen at (720) 847-4655

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## Toxics

- Asbestos (Asbestos Containing Building Materials ACBM) -
  - Base-wide survey (2004-2006) Building specific: 200, 300, 302, 340, 400, 401, 429, 430, 431, 432, 706, 731, 801, 814, 841, 850, 909, 940, 950, 1101, 1411, 1413, 1500, 1606
  - Unknown: 402, 403, 404, 405, 413, 485 (survey may not include high security or hidden areas of buildings)
    - Environmental (CEIE) must review work order requests prior to maintenance and survey may be required
  - Environmental Office and Customer Service have results
    - FM's are required to maintain a copy of their building surveys and management plan if one was developed. Hardcopies located at Environmental (CEIE).
- Lead Based Paint -
  - No requirement for a base survey. Project surveys may be req'd
  - Only a risk if you disturb material. (LBP use now prohibited)
- Radon Gas -
  - Past base-wide survey, no high risk facilities on Buckley
- Toxics Program Manager, Mr. Matthew Christensen at (720) 847 -5723

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## Cultural and Natural Resources

### Cultural -

- 12 historical buildings & sites (801, 909, 402, 403, 404, 405, 431, 432, 433, 434, 630, and 814 )
  - Environmental (CEIE) must review work all order requests prior to maintenance on any of these buildings
- If an inadvertent archaeological discovery is made stop work immediately and contact the cultural resources manager at (720) 847-9059.

### Natural -

- Most bird species on BSFB are protected
- Work outside your facility may impact these species
  - Environmental (CEIE) must review work order requests prior to maintenance
  - There's a rodent, birds, or snake in my building call CE Operations Support, Customer Service (720) 847 -9913

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# Questions?

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## 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:

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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.
<u>PEO-5 Post-Construction Stormwater Control Awareness Training</u>  1. Develop post-construction stormwater control awareness training materials. (Year 2)	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. PEO-5 is reported in the 1 November – 31 December 2023 annual report iteration.	No
2. Provide post-construction stormwater control	<b>COMPLETED</b>	No

awareness training materials to 460 CES/CEN and CEIE, as well as the 460 CONF. (Year 2-5)	Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. PEO-5 is reported in the 1 November – 31 December 2023 annual report iteration.	
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### **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:

The Buckley SFB stormwater program host military, civilian, contractor, military dependents, and retired military personnel who work and utilize services on Buckley SFB. Buckley SFB supports 3,100 active-duty members from every service, 4,000 National Guard personnel and reservists, 2,400 civilians, 2,500 contractors, 36,000 retirees and approximately 40,000 veterans and dependents. The Buckley SFB stormwater program regularly interacts with tenant organizations including 140th Colorado Air National Guard, Navy, Marines, Colorado Army National Guard, Aerospace Data Facility of Colorado, and Amazon Web Services through regular business-related items, and cross functional team networks where information is readily shared and further disseminated in support of Buckley SFB NPDES permits.

Over the course of permit year 10, Buckley conducted: Forty (40) industrial stormwater shop-level inspections as part of its Multi-Sector General Permit (MSGP) routine industrial facility inspections with twelve (12) shop leads; sixty-six (66) construction site oversight inspections involving forty-four (44) different personnel; twelve (12) facility manager trainings averaging about five (5) personnel per training session; eleven (11) newcomer orientation sessions averaging about thirty (30) personnel per session; four (4) stormwater trainings with (102) total participants; two (2) public postings that estimate to have reached up to one hundred (100) people in total; one (1) meeting with about five (5) participants from City of Aurora departments; one (1) public participation event with six (6) participants; seven (7) SWPPP reviews for seven (7) points of contact. Between the six minimal control measures, the Buckley SFB stormwater program conservatively estimates to have reached 666 people during the permit year.

## 2. Public Involvement and Participation

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:

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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.
<u>PIP-1 Public Notice Requirements</u>  1. The 460 CES/CEIE Water Quality Program Manager (WQPM) and 460 SW/JA will review and document the public notice requirements, if any, associated with the public involvement and participation program.	<b>COMPLETED</b>  Per MS4 permit requirements, the 460 CES/CEIE WQPM and 460 SW/JA conferred in Permit Year 1 regarding public notice requirements associated with the PIP program. No public notification requirements were identified at the time.	No
2. Public notices are provided and documented for required public involvement and participation activities.	<b>NOT APPLICABLE</b>  No activity required.	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:

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<p><u>PIP-2 SWMP Public Review</u></p> <p>1. Make MS4 annual reports available on the Buckley SFB website (<a href="http://www.buckley.spaceforce.mil">www.buckley.spaceforce.mil</a>) within 15 days of submitting the annual report to the EPA.</p>	<p><b>COMPLETED</b></p> <p>The Permit Year 9 Annual Report was requested to be posted on the Buckley SFB website on 3 April 2023. To locate the report on the Buckley SFB website, highlight the "Units" tab, and click on "Environmental" in the drop- down list (URL: <a href="https://www.buckley.spaceforce.mil/Units/Environmental/">https://www.buckley.spaceforce.mil/Units/Environmental/</a>); a narrative in regard to the MS4 Permit is provided along with links to applicable environmental documentation including the complete MS4 Permit, the SWMP Plan, and the Annual Report.</p>	<p>No</p>

## 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:

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.
<p><u>PIP-3 Stormwater Action Line and Email Address</u></p> <p>1. Maintain the stormwater action line email address. Document action line emails received from the public and actions taken in public participation log.</p>	<p><b>COMPLETED</b></p> <p>The stormwater action line email address, 460 CES/CEV Water (460ces.cevwater@us.af.mil) is active and is being maintained. The email address (along with the 460 CES/CEIE WQP staff and 460 CES Customer Service direct telephone numbers) is published in a variety of sources including the Space Force Global Address List (GAL). No emails using the 460 CES/CEV Water address were submitted during Permit Year 10. In 2024, the email address will be distributed for spill notification purposes, to supplement the existing call notification list. A spill log is maintained with the 460 CES Environmental Office files.</p>	<p>No</p>

## 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:

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>PIP-4 Annual Meeting with City of Aurora</u>  1. The 460 CES/CEIE WQPM will conduct a meeting between appropriate Buckley SFB and City of Aurora stormwater/water quality managers at least once per year to discuss water quality and discharges to East Toll Gate Creek (ETGC).	<b>COMPLETED</b>  Meeting occurred on 9 January 2023.  The virtual meeting was held between 460 CES/CEIE Water Quality Program Manager, and eight (8) City of Aurora (CoA) personnel from various divisions. The meeting focused on establishing rapport and points of contact for future water quality correspondence between Buckley SFB and CoA.	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:

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>PIP-5 Volunteer and Cleanup of MS4 Receiving Water Activities</u></p> <ol style="list-style-type: none"> <li>1. Buckley SFB will maintain a log of public participation activities related to water quality protection and cleanup of MS4 receiving waters.</li> </ol>	<p><b>COMPLETED</b></p> <p>In Permit Year 10 public participation activities included volunteer cleanup activities that were held on BSFB property on 9 February 2023 and 9 May 2023 and off base on 25 October 2023. Six (6) participants removed trash at the North Yard on 9 February and 9 May and on 25 October another six (6) participants removed trash along an off-base section of East Toll Gate Creek that runs adjacent to the southwest boundary of the Base on City of Aurora property. A total of eighteen (18) participants participated in the 3 clean-up activities. Attendance rosters and photos from these cleanup activities are below. Buckley maintains a log of all public and participation and outreach activities performed on its internal share drive.</p>	<p>No</p>

## Date: 9-February-2023

24

**Event: MCM 2 Public Involvement and Participation (PIP-5) Volunteer and Cleanup of MS4 Receiving Water Activities**

**Date: 9 May 2023**



<p><b>Event: Trash Pick-up Activity at BSFB Recycling Area</b></p>	
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Date: 9-May-2023

[illegible]

Event: MCM 2 Public Involvement and Participation (PIP-5) Volunteer and Cleanup of MS4 Receiving Water Activities

Date: 25 October 2023



## Date: 25 October 2023

**Date: 25 October 2023**

Greg Vierra	460 CES/CEIE	720-847-6308	gregory.vierra.2.ctr@spaceforce.mil
Beth Seppala	SRS	303-717-7902	bseppala@descgroup.com
Kelly Beck	SRS	812-529-1999	kbeck@descgroup.com
Matt Cohen	460 CES/CEIE	720-847-4655	matthew.cohen.4@spaceforce.mil
Veronica Reed	USFWS/460 CES/CEIE	720-219-7053	veronica-reed@fws.gov
Matt Rodgers	460 CES/CEIE	720-847-7245	global

**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:

All information used to implement the program has been provided under the Measurable Goals.

### 3. Illicit Discharge Detection and Elimination (IDE)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>IDE-1 Storm Sewer System Map</u></p> <p>1. Updated the complete storm sewer system map in the Buckley SFB Geographic Information Systems (GIS) (Year 3).</p>	<p><b>COMPLETED</b></p> <p>The update process is organized by installation areas, called tiles; there are 35 tiles that cover the entire installation.</p> <p>Each tile covers a specific portion or area of the installation, and a certain number of tiles are scheduled to be covered by the update process each calendar quarter, so progress toward the goal can be measured.</p> <p>The update process involves staff from engineering, operations, and environmental within 460 CES who systematically conducts field inspections and surveys to validate/correct existing system maps and to add missing features. The update is 96% complete with no anticipation of ever being 100% as there is always construction occurring on base and occasionally errors are found through the process described above. It is the opinion of Buckley SFB that the intent of this requirement has been met and an MFR dated 13 February 2017 has been issued by the 460 CES/CEIE WQPM documenting completion of this task shown on the following page.</p>	<p>No</p>



DEPARTMENT OF THE AIR FORCE  
460TH SPACE WING (AFSPC)

13 February 2017

MEMORANDUM FOR RECORD

FROM: 460 CES/CEIE

SUBJECT: Documentation of Completion of the Buckley AFB Storm Sewer System GIS  
Update per IDE-1 (Permit Year 3)

1. Mr. Matt Rodgers, the Buckley AFB Water Quality Program Manager (WQPM) met with 460 CES/CENM representatives Mr. Delbert Brown and Mr. Juanito Canon on 6 Feb 2017 to discuss the status of the IDE-1 task identified in the Stormwater Management Program Plan and within paragraph 2.4.8 of the Buckley AFB MS4 Permit. Mr. Brown and Mr. Canon explained that the vast majority (Approx. 96%) of stormwater infrastructure has been reviewed and updated within the Buckley AFB Geobase system as applicable over the past (3) years via efforts staffed by engineering, operations, and environmental personnel through field maintenance and compliance inspections along with various surveying tasks. Due to the ongoing nature of construction projects being conducted base-wide, there is essentially never a discrete moment when Geobase is 100% up-to-date and it is believed that the intent of this MS4 permit tasking has been met.
2. Please contact Matt Rodgers at [matthew.rodgers.7@us.af.mil](mailto:matthew.rodgers.7@us.af.mil) or at (720) 847-4655 with any questions or comments in regard to this tasking.

  
Matthew C. Rodgers, GS-12, DAF  
Water Quality Program Manager, 460 CES/CEIE

PERSISTENT GLOBAL SURVEILLANCE

## Illicit Discharge Detection and Elimination (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>IDE-2 Dry Weather Screening of Major Outfalls</u>  1. Conduct dry weather screening of Buckley SFB outfalls once per year. Document findings of dry weather screening and erosion evaluation. Document results of any follow up illicit discharge investigation or assessments.	<b>COMPLETED</b>  The visual dry weather screenings for MS4 Permit Year 10 were completed on 22 March 2023 and 12 April 2023. Major industrial and municipal outfalls were inspected. No dry weather discharges were observed; therefore, no actions to investigate/assess potential illicit discharges were implemented. The erosion and sediment control concerns were documented and recommended for work orders.	No

## Illicit Discharge Detection and Elimination (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>IDE-3 Illicit Discharge Detection and Elimination Program</u>  1. Maintain one printed copy of the EPA Illicit Discharge Detection and Elimination (IDDE) Manual in the Environmental Element's library.	<b>COMPLETED</b>  A hardcopy of the US EPA IDDE Manual is in place on the 460 CES/CEIE Stormwater library shelves.	No
2. At a minimum, the Water Quality Program Manager (WQPM), Spill Program Manager, and Environmental Element Chief will conduct an annual review of the EPA IDDE Manual. This review will serve as training for illicit discharge investigation and response techniques.	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. IDE-3 is reported in the 1 November – 31 December 2023 annual report iteration.	No

### Illicit Discharge Detection and Elimination (continued)

<p>3. Document the time required to investigate, plan, and correct confirmed illicit discharges identified on Buckley SFB. For confirmed illicit discharges, Buckley SFB will develop a Corrective Action Plan (CAP) within 15 business days and implement the corrective action within 45 business days of discovery. If corrective action will require more than 45 business days, permission must be obtained from Region 8 USEPA.</p>	<p><b>COMPLETED</b></p> <p>Seven (7) confirmed illicit discharges occurred in Permit Year 10 on:</p> <ol style="list-style-type: none"> <li>1. SPILL-4327 (4-February-2023); COANG Tarmac Hydraulic Fluid, 2-gal</li> <li>2. SPILL-4368 (26-February-2023); AWS, Diesel 100-gal</li> <li>3. SPILL-4545 (19-April-2023); B-495 Cooling Tower Water, 800-gal</li> <li>4. SPILL-4845 (1-August-2023); Wastewater, 2800-gal</li> <li>5. SPILL-4868 (8-August-2023); B-495 Cooling Tower Water, 50-gal</li> <li>6. SPILL-4902 (21-August-2023); B-495 Cooling Tower Water, 10-gal</li> <li>7. SPILL-4970 (8-September-2023); B-495 Cooling Tower Water, 70-gal</li> </ol> <p>A corrective action plan (CAP) was developed within 15 business days and implemented within 45 days of discovery of these illicit discharges. No 2023 discharges went off base. See EASIER (Air Force information management system for reporting spills) documentation below for details of illicit discharges to include responses described in Corrective Actions.</p>	<p>No</p>
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Installation Details

Installation:	Buckley	Service/Command:	USSF	State:	CO
Sub Location:		Branch:	Midwest Branch	EPA Region:	8
		ISS:	Peterson		

Spill Details

Fiscal Year:	2023
Classification:	Reviewable
Closed Date:	03/23/2023 14:01:05
Reported to HAF?:	No
Report to HAF Determination Date:	03/23/2023
Read/Received Date:	02/07/2023
Estimated Clean-up Date:	02/04/2023
Updated in EASIER:	02/20/2024
Entered in EASIER:	02/07/2023
Spill/Release Date:	02/04/2023 12:00
Was the release cleaned up within 24 hours?:	No
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
Overall Root Cause:	(E) Personnel - Execution
Specific Root Cause:	(E3) Personnel understood requirement, but forgot to act / Inattention to detail
Equipment/Facility Involved:	AGE Equipment
Equipment Type:	Other (Add Description Below)
Aircraft Type	N/A
FES Incident Number	N/A
Cause of Release	Accidental Discharge due to Human Error
Description:	

Over the weekend, on 4 Feb 2023, COANG weekend drill personnel caused an illicit discharge of hydraulic fluid by relocating a piece of AGE equipment. Hydraulic fluid spilled out from the open hydraulic fluid pan in the back of the AGE equipment while it was being moved. As of 7 Feb 2023, some staining remains on the tarmac but there is no remaining fluid to be absorbed. Based on the path of the stain on the tarmac, it was evident the AGE equipment passed over the tarmac drain during relocation. The AGE equipment was not parked over the storm drain. It is estimated that about 2-gallons of hydraulic fluid had spilled out of the AGE equipment onto the tarmac where about 2-ounces of hydraulic fluid entered the storm drain. Because this release occurred over the weekend and involved COANG weekend drill personnel, it is unknown how effectively responders contained and cleaned up the release. This release was reported on 7 Feb 2023.

Points of Contact

Type	Name	Email	Phone
Author	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	matthew.cohen.4@spaceforce.mil	

Type	Name	Email	Phone
Additional	RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE		
Primary	WOODARD, ETHAN T CIV USSF SpOC 460 CES/CEIE		

Location Map

Latitude:  
39.7119436952644

Longitude:  
-104.768979181696



Google  
Map data ©2024 Google Imagery ©2024 Airbus, Maxar Technologies, Sanborn, U.S. Geological Survey, USDA/FPAC/GEO Report a map error

Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Hydraulic Fluid	2 Gallon(s)	0 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	

Question	Answer	Details
Did the release interrupt installation mission operations?	No	
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?	No	
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	Yes	2 ounces
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	No	
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	No	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	

#### External Communications

Question	Answer
Was the Fire Department notified?	No
Has the Fire Department visited the release site?	No
Was the NRC notified?	No
Has the NRC visited the release site?	No

Question	Answer
Was an environmental regulatory agency notified?	Yes
What environmental regulatory agency was notified?	EPA
Has an environmental regulatory agency visited the release site?	No
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
No Attachments have been added.				

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
No Related Events have been added.									

Corrective Actions

Corrective Action 1

Status:	Complete
Corrective Action:	Corrective actions include providing COANG AGE Facility Managers/Supervisors with additional spill prevention training for AGE personnel to mitigate recurrence and spill response training to contain and clean up immediately. Additionally, an AGE secondary containment project (CRWU172211) is being programmed for FY25 construction with the objective to install a new secondary containment with roofing to shelter all the COANG tarmac AGE equipment and restrict AGE equipment excessive movement.
Notes:	
Air Force POC:	RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE
Additional POC:	
Additional Funding Required:	
Est. or Act. Completion Date:	
Project/Work Order Title:	N/A
Project/Work Order Number:	N/A

Notifications

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil; matthew.rodgers.7@spaceforce.mil;	james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; sean.palmer.16@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; shannon.gray.9.ctr@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; angelia.binder@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; katherine.need.1@us.af.mil;	EASIER: Spill Read and Received (Buckley)	A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4327">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx? SID=4327</a>	02/07/2023 16:11	System
james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; sean.palmer.16@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; shannon.gray.9.ctr@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; angelia.binder@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil;	matthew.cohen.4@spaceforce.mil; matthew.rodgers.7@spaceforce.mil; kevin.leachman@us.af.mil; katelyn.bries.1@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4327">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx? SID=4327</a>	02/07/2023 15:13	System

To	CC	Subject	Message	Sent Date	Generated By
brilana.troublefield.ctr@us.af.mil; katherine.need.1@us.af.mil;					
matthew.rodgers.7@spaceforce.mil;		EASIER: Corrective Action Assignment for Spill (Buckley)	<p>You have been assigned as the POC for a new Corrective Action for a Spill at Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. Please review your Corrective Action and continue to update it in EASIER until completion.</p> <p>Corrective Action: Corrective actions include providing all Buckley COANG personnel with additional stormwater training to help ensure this type of incident does not happen again. Additionally, a work order has been programmed to install a new secondary containment with roofing to shelter all the COANG tarmac AGE equipment with the goal of restricting AGE equipment excessive movement.</p> <p>View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4327">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4327</a></p> <p>Tip: If you have multiple Corrective Actions assigned to you for multiple events, you can quickly see all your corrective actions via the "My Events" page under the "Pending Corrective Actions" tab.</p>	02/07/2023 15:12	System

History

Date	Action	Description / Comments	Generated By
02/20/2024 9:00:56	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 9:00:02	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:59:49	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:59:10	Event Re-opened		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/23/2023 8:01:05	Event Closed		WOODARD, ETHAN T CIV USSF SpOC 460 CES/CEIE
03/23/2023 8:00:43	Report HAF Determination Added	Report To HAF Determination: No N/A	WOODARD, ETHAN T CIV USSF SpOC 460 CES/CEIE

## Installation Details

<b>Installation:</b>	Buckley	<b>Service/Command:</b>	USSF	<b>State:</b>	CO
<b>Sub Location:</b>		<b>Branch:</b>	Midwest Branch	<b>EPA Region:</b>	8
		<b>ISS:</b>	Peterson		

## Spill Details

<b>Fiscal Year:</b>	2023
<b>Classification:</b>	Reviewable
<b>Closed Date:</b>	05/01/2023 15:42:20
<b>Reported to HAF?:</b>	No
<b>Report to HAF Determination Date:</b>	05/01/2023
<b>Read/Received Date:</b>	02/27/2023
<b>Estimated Clean-up Date:</b>	02/27/2023
<b>Updated in EASIER:</b>	02/20/2024
<b>Entered in EASIER:</b>	02/27/2023
<b>Spill/Release Date:</b>	02/26/2023 15:30
<b>Was the release cleaned up within 24 hours?:</b>	Yes
<b>Did process owner have sufficient clean-up capabilities?:</b>	Yes
<b>Class:</b>	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
<b>Overall Root Cause:</b>	(I) Infrastructure
<b>Specific Root Cause:</b>	(I2) Defective or failed equipment
<b>Equipment/Facility Involved:</b>	GEN 61 E3 Belly Tank/AWS
<b>Equipment Type:</b>	AST
<b>Aircraft Type</b>	N/A
<b>FES Incident Number</b>	2023-85
<b>Cause of Release</b>	Accidental Discharge due to Equipment Failure

**Description:**

At about 1530 on 26 Feb 2023, generator 61 E3 belly tank experienced a mechanical failure that caused the release of about 100-gal of diesel fuel. A mechanical error caused the e-valve for the tank to remain open while the generator supply pump continued to run and pump diesel through the system. The diesel overfilled from the overfill auxillary port as well as the tank vent where it spilled out onto the pavement and street on the north-side of B-525. The diesel travelled east along the street on the north-side of B-525 where about 1-gallon of diesel entered the stormdrain. Personnel noticed the release and immediately responded by closing the generator valves, deploying spill pads and absorbents at the source and installing spill booms downstream, both in front of the stormdrain inlet and at the outlet to stop the diesel from travelling further. No diesel entered the soil nor surface waters. The diesel did not exit the culvert.

AWS immediately contacted Buckley Fire Department, Buckley environmental office and a hazardous waste cleanup contractor. The Fire Department contacted the city of Aurora and notified them of the release. The cleanup contractor entered the storm drain and soaked up the diesel that was within the culvert, containerized the spill materials and plan to return on 27 Feb 2023 to complete the cleanup and remove the containerized waste. A manifest of removal will be provided to AWS.

Points of Contact

Type	Name	Email	Phone
Author	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	matthew.cohen.4@spaceforce.mil	
Primary	WOODARD, ETHAN T CIV USSF SpOC 460 CES/CEIE		

Location Map

Latitude:  
39.7234949325408

Longitude:  
-104.758687454466



Google

Map data ©2024 Google Imagery ©2024 Airbus, Maxar Technologies, U.S. Geological Survey, USDA/FPAC/GEO Report a map error

Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Diesel	100 Gallon(s)	90 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	

Question	Answer	Details
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	
Did the release interrupt installation mission operations?	No	
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?	No	
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	Yes	1-gallon
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	No	
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	No	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	
External Communications		

Question	Answer
Was the Fire Department notified?	Yes
Has the Fire Department visited the release site?	Yes
Was the NRC notified?	No

Question	Answer
Has the NRC visited the release site?	No
Was an environmental regulatory agency notified?	No
Has an environmental regulatory agency visited the release site?	No
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
Diesel Fuel SDS_APA.pdf	Supporting Document	SDS	02/27/2023	02/27/2023
ECC Daily Report 20230227.pdf	Supporting Document	Fire Dept Response	02/27/2023	02/27/2023
Non-DoD Source FW Diesel Fuel Spill Field Report.msg	Supporting Document		04/17/2023	04/17/2023
Non-DoD Source RE 26 Feb 2023 AWS 10-gal diesel release.msg	Supporting Document		04/06/2023	04/17/2023

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
No Related Events have been added.									

Corrective Actions

Corrective Action 1

Status:	Complete
Corrective Action:	AWS personnel immediately deployed spill absorbent materials at the spill source and downstream. They also installed spill absorbents around the inlet and outlet of the receiving storm drain to stop the progression of the spill. A cleanup contractor responded and containerized the spill materials. The cleanup is estimated to be completed on 27 Feb 2023. AWS provided a manifest of removal to 460 CES/CEIE on 7 April 2023. AWS completed spill investigation report on 13 April 2023. Corrective actions include placing the fuel system in a manual fill only mode and creating a document/system to monitor fuel flow and tank levels every 30-minutes, trending all storage tank alarm points, levels, belly tank levels, pump activation, and valve positions, adding logic of high belly tank cutting off supply pumps, using veeder-root level system for alarming instead of Simplex, replacing supply solenoid valves with motorized valve positioners, adding check valves and thermal expansion valves to storage tank supply lines, replacing belly tank float stacks to control to 5,000 gal. volume and updating drawing to reflect as-built fuel system and encompass remediation changes.
Notes:	
Air Force POC:	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
Additional POC:	

**Additional Funding Required:****Est. or Act. Completion Date:** 04/13/2023**Project/Work Order Title:** N/A**Project/Work Order Number:** N/A

## Notifications

To	CC	Subject	Message	Sent Date	Generated By
matthew.rodgers.7@spaceforce.mil;		EASIER: Corrective Action Assignment for Spill (Buckley)	<p>You have been assigned as the POC for a new Corrective Action for a Spill at Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. Please review your Corrective Action and continue to update it in EASIER until completion.</p> <p>Corrective Action: AWS is in the process of diagnosing the mechanical failure that caused the release.</p> <p>View Event:  <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368</a></p> <p>Tip: If you have multiple Corrective Actions assigned to you for multiple events, you can quickly see all your corrective actions via the "My Events" page under the "Pending Corrective Actions" tab.</p>	02/27/2023 16:07	System
matthew.cohen.4@spaceforce.mil;	james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; sean.palmer.16@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; shannon.gray.9.ctr@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; angelia.binder@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil;	EASIER: Spill Read and Received (Buckley)	<p>A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.</p> <p>Comments: None</p> <p>View Event:  <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368</a></p>	02/27/2023 15:10	System

To	CC	Subject	Message	Sent Date	Generated By
	brilana.troublefield.ctr@us.af.mil; katherine.need.1@us.af.mil;				
james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; sean.palmer.16@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; shannon.gray.9.ctr@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; angelia.binder@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; katherine.need.1@us.af.mil;	matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; katelyn.bries.1@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368</a>	02/27/2023 14:59	System
james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; sean.palmer.16@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; shannon.gray.9.ctr@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; angelia.binder@us.af.mil; jakob.rice.1@us.af.mil;	matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; katelyn.bries.1@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368</a>	02/27/2023 14:59	System

To	CC	Subject	Message	Sent Date	Generated By
carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; katherine.need.1@us.af.mil;					
matthew.rodgers.7@spaceforce.mil;		EASIER: Corrective Action Assignment for Spill (Buckley)	<p>You have been assigned as the POC for a new Corrective Action for a Spill at Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. Please review your Corrective Action and continue to update it in EASIER until completion.</p> <p>Corrective Action: AWS personnel immediately deployed spill absorbent materials at the spill source and downstream. They also installed spill absorbents around the inlet and outlet of the receiving storm drain to stop the progression of the spill. A cleanup contractor responded and containerized the spill materials. The cleanup is estimated to be completed on 27 Feb 2023. A manifest of removal will be presented to AWS.</p> <p>View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4368</a></p> <p>Tip: If you have multiple Corrective Actions assigned to you for multiple events, you can quickly see all your corrective actions via the "My Events" page under the "Pending Corrective Actions" tab.</p>	02/27/2023 14:57	System

## History

Date	Action	Description / Comments	Generated By
02/20/2024 8:57:34	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:57:27	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (Complete) modified Assignee modified to COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:56:08	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:55:55	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024	Event Re-opened		COHEN, MATTHEW E CIV USSF SpOC

Date	Action	Description / Comments	Generated By
8:54:28			460 CES/CEIE
05/01/2023 9:42:20	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
05/01/2023 9:42:14	Report HAF Determination Added	Report To HAF Determination: No  N/A	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:47:08	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:46:38	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (Complete) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:42:33	Event Edited	Status: Pending Closure	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:42:32	Corrective Action Deleted	Assigned To: RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:42:14	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (Complete) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:41:51	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress) modified Status modified to Complete	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 5:35:34	Attachment Added	Supporting Document: Non-DoD Source FW Diesel Fuel Spill Field Report.msg (04/17/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 4:51:09	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 4:50:51	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 4:36:16	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/17/2023 4:33:52	Attachment Added	Supporting Document: Non-DoD Source RE 26 Feb 2023 AWS 10-gal diesel release.msg (04/06/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/06/2023 6:06:55	POC Added	Primary: WOODARD, ETHAN T CIV USSF SpOC 460 CES/CEIE	GIBBONS, GREGORY L CTR USAF AFMC AFCEC/CZCA
02/27/2023 9:07:22	Corrective Action Added	Assigned To: RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
02/27/2023 8:10:31	Event Read and Received		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
02/27/2023 8:06:01	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:59:31	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:59:20	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:58:46	Event Edited	Event Coordinates Updated	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:57:56	Corrective Action Added	Assigned To: RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:54:24	Attachment Added	Supporting Document: Diesel Fuel SDS_APA.pdf (02/27/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:44:34	Attachment Added	Supporting Document: ECC Daily Report 20230227.pdf (02/27/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:42:33	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:42:07	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:41:05	Released Material Added	Diesel	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:40:27	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/27/2023 7:37:11	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 12:03:05	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:59:24	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:59:04	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC

Date	Action	Description / Comments	Generated By
11:58:43			460 CES/CEIE
02/26/2023 11:58:42	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:55:12	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:43:24	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:42:51	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:42:14	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:41:02	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:40:34	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/26/2023 11:39:45	POC Created	Author: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	System
02/26/2023 11:39:43	Event Created		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
03/06/2023 6:06:32	POC Added	Primary: WOODARD, ETHAN T CIV USSF SpOC 460 CES/CEIE	GIBBONS, GREGORY L CTR USAF AFMC AFCEC/CZCA
02/08/2023 8:08:31	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (Complete) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/08/2023 8:07:24	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 9:11:55	Event Read and Received		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
02/07/2023 8:13:40	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 8:13:19	POC Added	Additional: RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 8:12:57	Corrective Action Added	Assigned To: RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (Complete)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 8:12:02	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 8:11:25	Event Edited	Event Coordinates Updated	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 8:11:02	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 7:05:39	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 7:05:38	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 7:04:24	Released Material Added	Hydraulic Fluid	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/07/2023 6:59:34	POC Created	Author: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	System
02/07/2023 6:59:33	Event Created		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

## Installation Details

<b>Installation:</b>	Buckley	<b>Service/Command:</b>	USSF	<b>State:</b>	CO
<b>Sub Location:</b>		<b>Branch:</b>	Midwest Branch	<b>EPA Region:</b>	8
		<b>ISS:</b>	Peterson		

## Spill Details

<b>Fiscal Year:</b>	2023
<b>Classification:</b>	Reviewable
<b>Closed Date:</b>	07/26/2023 14:01:59
<b>Reported to HAF?:</b>	
<b>Report to HAF Determination Date:</b>	
<b>Read/Received Date:</b>	03/20/2024
<b>Estimated Clean-up Date:</b>	04/20/2023
<b>Updated in EASIER:</b>	03/20/2024
<b>Entered in EASIER:</b>	04/21/2023
<b>Spill/Release Date:</b>	04/19/2023 21:15
<b>Was the release cleaned up within 24 hours?:</b>	Yes
<b>Did process owner have sufficient clean-up capabilities?:</b>	Yes
<b>Class:</b>	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
<b>Overall Root Cause:</b>	(U) Unknown
<b>Specific Root Cause:</b>	(U1) Unknown
<b>Equipment/Facility Involved:</b>	B-495 Evaporative cooling tower
<b>Equipment Type:</b>	Other (Add Description Below)
<b>Aircraft Type</b>	N/A
<b>FES Incident Number</b>	N/A
<b>Cause of Release</b>	Accidental Discharge due to Equipment Failure

## Description:

On 19 April 2023 at 2115, a release occurred at the Building 495 Chiller Plant, cooling tower 4 sump at the ADF-C. 800-gallons of treated cooling water was released to the surrounding pavement where some of the treated water infiltrated nearby soil. The cooling water is treated with Chemtex 3560-OT at a concentration of 100 ppm, Chemtex AA-4015 at a concentration of 150 ppm, and Chemtex Bromex-16 at a concentration of 50 ppm. The release did not enter stormwater conveyance nor sanitary sewer conveyance. The overflow was halted when one of the on-line towers/sumps was shut down and the remaining sumps began to equalize. Root cause investigation is continuing but it appears plant programming, currently being upgraded, functioned contrary to established operations.

In December 2023, a wastewater sampling investigation revealed trace amounts of PFAS substances in the cooling tower water.

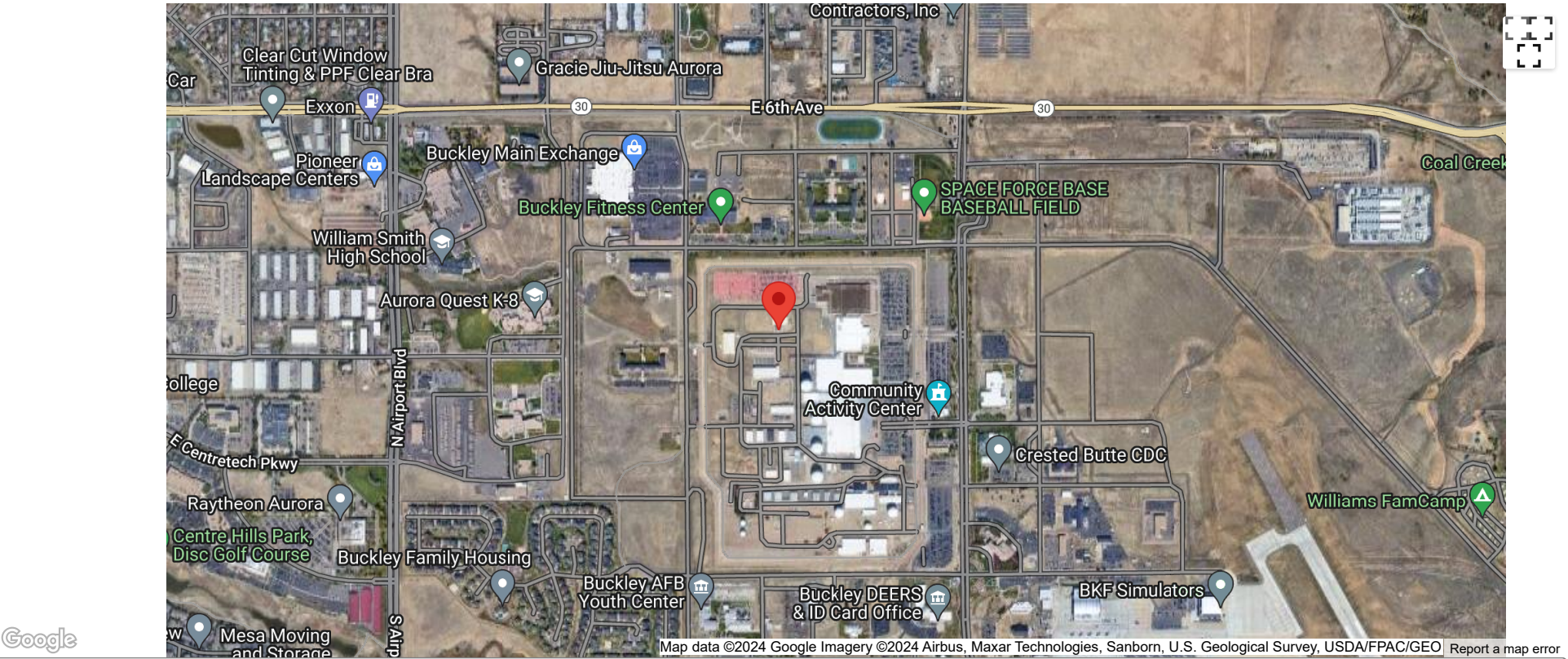
## Points of Contact

Type	Name	Email	Phone
Author	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	matthew.cohen.4@spaceforce.mil	

Location Map

Latitude:  
39.7200086050444

Longitude:  
-104.778520841037



Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Cooling tower treated water	800 Gallon(s)	0 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	

Question	Answer	Details
Did the release interrupt installation mission operations?	No	
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?	No	
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	No	
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	No	
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	Yes	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	

#### External Communications

Question	Answer
Was the Fire Department notified?	No
Has the Fire Department visited the release site?	No
Was the NRC notified?	No
Has the NRC visited the release site?	No

Question	Answer
Was an environmental regulatory agency notified?	Yes
What environmental regulatory agency was notified?	EPA
Has an environmental regulatory agency visited the release site?	No
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
Non-DoD Source RE Buckley SFB Follow Up to EPA 19 April Release at ADF-C.msg	Regulator Notices	EPA Follow Up Questions	05/30/2023	06/06/2023

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
No Related Events have been added.									

Corrective Actions

Corrective Action 1

Status:	In Progress
Corrective Action:	Discharge infiltrated the surrounding soil depression on the North side of the cooling tower. The spill did not enter stormwater conveyance. Personnel immediately launched an investigation to determine the cause of the release and identify solutions to prevent future discharges. Current corrective action approach is to address in two phases. Phase 1 is underway and involves repairing some basic plant programming deficiencies in the cimplicity control system and improved monitoring of waterflow into the condensor water bypass loop for remote observation at the integrated operations control center (IOCC). Phase 2 involves installing additional plant hardware to automate response procedures currently required to be accomplished upon responding to plant alarms. The hardware and additional logic will be connected to the cimplicity control system and reported to the IOCC. Phase 2 is currently unfunded and without an estimated completion date.
Notes:	
Air Force POC:	RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE
Additional POC:	
Additional Funding Required:	
Est. or Act. Completion Date:	07/31/2023
Project/Work Order Title:	
Project/Work Order Number:	

Notifications

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil;	james.farris.3@us.af.mil; jarrod.case@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; savannah.pollard.1.ctr@us.af.mil; katherine.need.1@us.af.mil; james.zott.1@us.af.mil;	EASIER: Spill Read and Received (Buckley)	A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545</a>	03/20/2024 13:28	System
james.farris.3@us.af.mil; jarrod.case@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; savannah.pollard.1.ctr@us.af.mil; katherine.need.1@us.af.mil; james.zott.1@us.af.mil;	matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil; charlton.hedden.3@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545</a>	03/20/2024 13:06	System

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil;		EASIER: New Spill Submitted (Buckley)	<p>A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "non-reviewable" so it does not require review by ISS or RSB personnel. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.</p> <p>Comments: None</p> <p>View Event:  <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545</a></p>	04/21/2023 8:58	System
matthew.rodgers.7@spaceforce.mil;		EASIER: Corrective Action Assignment for Spill (Buckley)	<p>You have been assigned as the POC for a new Corrective Action for a Spill at Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. Please review your Corrective Action and continue to update it in EASIER until completion.</p> <p>Corrective Action: Investigation is ongoing.</p> <p>View Event:  <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545</a></p> <p>Tip: If you have multiple Corrective Actions assigned to you for multiple events, you can quickly see all your corrective actions via the "My Events" page under the "Pending Corrective Actions" tab.</p>	04/21/2023 8:57	System
matthew.cohen.4@spaceforce.mil;		EASIER: New Spill Submitted (Buckley)	<p>A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "non-reviewable" so it does not require review by ISS or RSB personnel. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.</p> <p>Comments: None</p> <p>View Event:  <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4545</a></p>	04/21/2023 8:57	System

History

Date	Action	Description / Comments	Generated By
03/20/2024 7:28:35	Event Read and Received		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
03/20/2024 7:09:17	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/20/2024 7:06:57	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/20/2024 7:06:56	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:52:34	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:50:26	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (Complete) modified Status modified to In Progress	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:49:31	Event Re-opened		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:49:14	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:48:30	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:48:14	Event Re-opened		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
07/26/2023 8:01:59	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
07/26/2023 8:01:53	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
07/26/2023 8:01:35	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress) modified Status modified to Complete	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
07/26/2023 7:54:23	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
06/06/2023 7:18:21	Attachment Added	Regulator Notices: Non-DoD Source RE Buckley SFB Follow Up to EPA 19 April Release at ADF-C.msg (05/30/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
05/25/2023	Corrective Action Edited	CA Assigned To RODGERS, MATTHEW C CIV USSF SPOC 460	COHEN, MATTHEW E CIV USSF SpOC

Date	Action	Description / Comments	Generated By
1:58:24		CES/CEIE (In Progress) modified	460 CES/CEIE
05/17/2023 8:33:16	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
05/17/2023 8:30:52	Event Edited	Event Coordinates Updated	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:58:04	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:57:55	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:57:40	Corrective Action Added	Assigned To: RODGERS, MATTHEW C CIV USSF SPOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:57:02	Event Edited	Classification: Non-Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:57:01	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:56:35	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:55:37	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:55:19	Released Material Added	Cooling tower treated water	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:54:31	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/21/2023 2:28:09	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
04/20/2023 10:43:18	POC Created	Author: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	System
04/20/2023 10:43:17	Event Created		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

## Installation Details

<b>Installation:</b>	Buckley	<b>Service/Command:</b>	USSF	<b>State:</b>	CO
<b>Sub Location:</b>		<b>Branch:</b>	Midwest Branch	<b>EPA Region:</b>	8
		<b>ISS:</b>	Peterson		

## Spill Details

<b>Fiscal Year:</b>	2023
<b>Classification:</b>	Reviewable
<b>Closed Date:</b>	08/09/2023 12:58:02
<b>Reported to HAF?:</b>	Yes
<b>Report to HAF Determination Date:</b>	08/10/2023
<b>Read/Received Date:</b>	08/08/2023
<b>Estimated Clean-up Date:</b>	08/02/2023
<b>Updated in EASIER:</b>	02/20/2024
<b>Entered in EASIER:</b>	08/03/2023
<b>Spill/Release Date:</b>	08/01/2023 13:00
<b>Was the release cleaned up within 24 hours?:</b>	No
<b>Did process owner have sufficient clean-up capabilities?:</b>	No
<b>Class:</b>	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
<b>Overall Root Cause:</b>	(I) Infrastructure
<b>Specific Root Cause:</b>	(I2) Defective or failed equipment
<b>Equipment/Facility Involved:</b>	Sewage lift station pump failure
<b>Equipment Type:</b>	Lift Station
<b>Aircraft Type</b>	N/A
<b>FES Incident Number</b>	N/A
<b>Cause of Release</b>	Accidental Discharge due to Equipment Failure

**Description:**

At 1300 on 1 August, 460 CES HVAC technicians were working at Buckley's post office and noticed the lift station west of Telluride Street and north of Patriot Hall Dormitory was leaking at a rate of 3-gal/min. The technicians alerted 460 CES Customer Service, who then dispatched 460 CES plumbing shop to investigate this issue. The plumbing shop scoped the sewage pipe with a camera and found the pipe was intact, so the problem was isolated to the lift station pumps. One of the lift station's two pumps is inop and the other pump is working but running slow, which is causing leakage. A large amount of flushable wipes and oil were observed, which is the likely cause of the degradation in performance of the one working pump. A pump truck has been contracted to resolve the issue by 2 Aug 2023.

## Points of Contact

Type	Name	Email	Phone
Author	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE	jeffrey.harrison.6@spaceforce.mil	
Primary	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	matthew.cohen.4@spaceforce.mil	720-847-4655
Primary	FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM	brandon.fellner.3@us.af.mil	

Location Map

Latitude:  
39.7197566526973

Longitude:  
-104.782588292452



Google

Map data ©2024 Google Imagery ©2024 Airbus, CNES / Airbus, Maxar Technologies, Sanborn, U.S. Geological Survey, USDA/FPAC/GEO Report a map error

Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Sewage	2800 Gallon(s)	0 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	

Question	Answer	Details
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	
Did the release interrupt installation mission operations?	No	
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?	No	
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	Yes	2800
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	Yes	Spill is being reported to HAF due to potential environmental impact.
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	No	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	
External Communications		

Question	Answer
Was the Fire Department notified?	No

Question	Answer
Has the Fire Department visited the release site?	No
Was the NRC notified?	Yes
Has the NRC visited the release site?	No
Was an environmental regulatory agency notified?	Yes
What environmental regulatory agency was notified?	EPA
Has an environmental regulatory agency visited the release site?	No
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
CUI_ Non-expedited_ IOI - Sewage Spill on base at Buckley SFB 1 Aug 23.pdf	Correspondence	IOI	08/10/2023	08/10/2023
lift station spill.jpeg				08/03/2023

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
No Related Events have been added.									

Corrective Actions

Corrective Action 1

Status:	Complete
Corrective Action:	CE plumbers and electricians unclogged the operable pump (“flushable” wipes were clogging it) and removed the inop pump. The lift station will operate fine with one pump (there are 2 for redundancy). We have ordered a replacement secondary pump and will install once it arrives. Excess water was removed via vacuum. Personnel are inspecting the pump 2x/day to check for leaks. No leaks identified since 1 Aug release. Personnel received and installed replacement pumps on 13 Dec.
Notes:	
Air Force POC:	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
Additional POC:	
Additional Funding Required:	
Est. or Act. Completion Date:	12/13/2023
Project/Work Order Title:	N/A

## Project/Work Order Number:

N/A

## Notifications

To	CC	Subject	Message	Sent Date	Generated By
jeffrey.harrison.6@spaceforce.mil; matthew.cohen.4@spaceforce.mil;	james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.ctr@us.af.mil; katherine.need.1@us.af.mil;	EASIER: Spill Read and Received (Buckley)	A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4845">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx? SID=4845</a>	08/08/2023 9:01	System
james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; sean.palmer.16@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil;	jeffrey.harrison.6@spaceforce.mil; matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil; charlton.hedden.3@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4845">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx? SID=4845</a>	08/03/2023 10:44	System

To	CC	Subject	Message	Sent Date	Generated By
michelle.cason.ctr@us.af.mil; katherine.need.1@us.af.mil;					
matthew.cohen.4@spaceforce.mil;		EASIER: Corrective Action Assignment for Spill (Buckley)	<p>You have been assigned as the POC for a new Corrective Action for a Spill at Buckley by HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE. Please review your Corrective Action and continue to update it in EASIER until completion.</p> <p>Corrective Action: Contractor has been contacted to pump out wet well.</p> <p>View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4845">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4845</a></p> <p>Tip: If you have multiple Corrective Actions assigned to you for multiple events, you can quickly see all your corrective actions via the "My Events" page under the "Pending Corrective Actions" tab.</p>	08/01/2023 16:48	System

History

Date	Action	Description / Comments	Generated By
02/20/2024 8:46:29	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:46:21	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (Complete) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:45:55	Event Re-opened		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
12/13/2023 6:23:51	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
12/13/2023 6:23:42	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified Status modified to Complete	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
12/13/2023 6:23:31	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
11/15/2023 2:30:15	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (Complete) modified Status modified to In Progress	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
11/15/2023 2:28:55	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
11/15/2023 2:28:28	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
11/15/2023 2:27:59	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
11/15/2023 2:27:31	Event Re-opened		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:26:08	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/10/2023 9:17:27	Attachment Added	Correspondence: CUI_ Non-expedited_ IOI - Sewage Spill on base at Buckley SFB 1 Aug 23.pdf (08/10/2023)	DELL, RONALD G CIV USAF AFMC AFCEC/CZOM
08/10/2023 6:31:43	Release Details Questionnaire Answered		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
08/10/2023 5:54:29	POC Edited	Additional: FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM modified Type modified to Primary	FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
08/10/2023 5:50:57	POC Added	Additional: FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM	FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
08/10/2023 5:45:17	Event Re-opened	Spill is being re-opened in order to report it to HAF.	FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
08/09/2023 6:58:02	Event Closed		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/09/2023 4:51:44	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/08/2023 3:01:32	Event Read and Received		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
08/03/2023 4:44:48	Report HAF Determination Added	Report To HAF Determination: No  N/A	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/03/2023 4:44:00	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/03/2023 4:43:39	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
Status modified to Complete			
08/03/2023 4:37:25	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/03/2023 3:52:01	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/03/2023 3:51:59	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/03/2023 3:48:53	Released Material Edited	Sewage modified Quantity Released modified to 2800 Gallon(s)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/02/2023 7:18:10	Update Added	Repairs were completed at 1100 on 2 Aug 2023. The wet well was pumped out and cleaned, one pump was removed for replacement, and the other pump was cleaned and back in operation. The lift station can operate with one pump as there are two for redundancy.	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/02/2023 5:02:53	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/02/2023 2:14:48	Update Added	Pump truck arrived on Buckley at 0700 2 Aug 2023 to empty wet well so pumps can be repaired/replaced if needed.	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/02/2023 1:18:16	Event Edited		HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/01/2023 10:49:27	Event Edited	Event Coordinates Updated	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/01/2023 10:48:35	Corrective Action Added	Assigned To: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress)	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/01/2023 10:46:21	Release Details Questionnaire Answered		HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/01/2023 10:44:03	Released Material Added	Sewage	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/01/2023 10:42:44	POC Added	Primary: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE
08/01/2023 10:37:58	POC Created	Author: HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE	System
08/01/2023 10:37:56	Event Created		HARRISON, JEFFREY D CIV USSF SPOC 460 CES/CEIE

Installation Details

Installation:	Buckley	Service/Command:	USSF	State:	CO
Sub Location:		Branch:	Midwest Branch	EPA Region:	8
		ISS:	Peterson		

Spill Details

Fiscal Year:	2023
Classification:	Reviewable
Reported to HAF?:	
Report to HAF Determination Date:	
Read/Received Date:	03/20/2024
Estimated Clean-up Date:	08/08/2023
Updated in EASIER:	03/20/2024
Entered in EASIER:	08/14/2023
Spill/Release Date:	08/08/2023 20:25
Was the release cleaned up within 24 hours?:	No
Did process owner have sufficient clean-up capabilities?:	Yes
Class:	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
Overall Root Cause:	(I) Infrastructure
Specific Root Cause:	(I2) Defective or failed equipment
Equipment/Facility Involved:	B-495 Evaporative cooling tower
Equipment Type:	Other (Add Description Below)
Aircraft Type	N/A
FES Incident Number	N/A
Cause of Release	Accidental Discharge due to Equipment Failure

**Description:**

On 8 August at 2037 hours, cooling tower 3 adjacent to Bldg 495 had an automatic isolation valve failed to close after the condenser pump stopped. This occurred while switching cooling towers for preventative maintenance. This caused the sump to overflow. The operator responded by manually shutting the valve, stopping the overflow. An estimated 50 gallons of condenser water was released. The water appears to have flowed off the equipment slab on both sides of the tower. A small amount of discharged water entered the adjacent storm ditch on the north-side of the tower where it quickly infiltrated the ground vegetation. The release did not travel down to the vegetated swale on the south-side of the tower. This was not an illicit discharge.

In December 2023, a wastewater sampling investigation revealed trace amounts of PFAS substances in the cooling tower water.

Points of Contact

Type	Name	Email	Phone
Author	<u>COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE</u>	matthew.cohen.4@spaceforce.mil	

Location Map

Latitude:  
39.7200398290623

Longitude:  
-104.77849635635



Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Cooling tower treated water	50 Gallon(s)	0 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	
Did the release interrupt installation mission operations?	No	
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or	No	

Question	Answer	Details
overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?		
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	No	
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	No	
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	Yes	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	
External Communications		

Question	Answer
Was the Fire Department notified?	No
Has the Fire Department visited the release site?	No
Was the NRC notified?	No
Has the NRC visited the release site?	No
Was an environmental regulatory agency notified?	No
Has an environmental regulatory agency visited the release site?	No

Question	Answer
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
B495 Overflow Corrective Actions Summary.pdf	Supporting Document			02/14/2024

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
No Related Events have been added.									

Corrective Actions

Corrective Action 1

Status:	In Progress
Corrective Action:	A service ticket has been opened (#80201282) to troubleshoot and repair the valve operation. Failed valve replaced, all triple duty valves on cooling towers replaced with check valves. Installed software to provide real time and historical diagnostics and provide IOCC with system notifications. Remotes ability to swap cooling towers and isolate make-up water valve. Hot deck valve replacement is on-going. Current corrective action approach is to address in two phases. Phase 1 is underway and involves repairing some basic plant programming deficiencies in the cimplicity control system and improved monitoring of water flow into the condensor water bypass loop for remote observation at the integrated operations control center (IOCC). Phase 2 involves installing additional plant hardware to automate response procedures currently required to be accomplished upon responding to plant alarms. The hardware and additional logic will be connected to the cimplicity control system and reported to the IOCC. Phase 2 is currently unfunded and without an estimated completion date.
Notes:	
Air Force POC:	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
Additional POC:	
Additional Funding Required:	
Est. or Act. Completion Date:	07/31/2024
Project/Work Order Title:	
Project/Work Order Number:	

Notifications

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil;	james.farris.3@us.af.mil; jarrod.case@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; savannah.pollard.1.ctr@us.af.mil; katherine.need.1@us.af.mil; james.zott.1@us.af.mil;	EASIER: Spill Read and Received (Buckley)	A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4868">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4868</a>	03/20/2024 13:28	System
james.farris.3@us.af.mil; jarrod.case@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; savannah.pollard.1.ctr@us.af.mil; katherine.need.1@us.af.mil; james.zott.1@us.af.mil;	matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil; charlton.hedden.3@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4868">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4868</a>	03/20/2024 13:11	System

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil;		EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "non-reviewable" so it does not require review by ISS or RSB personnel. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4868">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4868</a>	08/14/2023 16:00	System

## History

Date	Action	Description / Comments	Generated By
03/20/2024 7:28:41	Event Read and Received		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
03/20/2024 7:12:20	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/20/2024 7:11:51	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/20/2024 7:11:50	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:40:36	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:45:05	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:42:55	Attachment Added	Supporting Document: B495 Overflow Corrective Actions Summary.pdf	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
01/08/2024 3:46:12	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
10/30/2023 5:52:56	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
10/18/2023 9:33:05	Event Edited	Event Coordinates Updated	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
08/14/2023 10:00:49	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/14/2023 10:00:42	Corrective Action Added	Assigned To: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/14/2023 10:00:20	Event Edited	Classification: Non-Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/14/2023 10:00:19	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/14/2023 9:59:58	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/14/2023 9:58:55	Released Material Added	Cooling tower treated water	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/14/2023 9:58:11	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/09/2023 7:17:00	POC Created	Author: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	System
08/09/2023 7:16:59	Event Created		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

## Installation Details

<b>Installation:</b>	Buckley	<b>Service/Command:</b>	USSF	<b>State:</b>	CO
<b>Sub Location:</b>		<b>Branch:</b>	Midwest Branch	<b>EPA Region:</b>	8
		<b>ISS:</b>	Peterson		

## Spill Details

<b>Fiscal Year:</b>	2023
<b>Classification:</b>	Reviewable
<b>Reported to HAF?:</b>	
<b>Report to HAF Determination Date:</b>	
<b>Read/Received Date:</b>	08/23/2023
<b>Estimated Clean-up Date:</b>	08/22/2023
<b>Updated in EASIER:</b>	03/20/2024
<b>Entered in EASIER:</b>	08/22/2023
<b>Spill/Release Date:</b>	08/21/2023 17:30
<b>Was the release cleaned up within 24 hours?:</b>	Yes
<b>Did process owner have sufficient clean-up capabilities?:</b>	Yes
<b>Class:</b>	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
<b>Overall Root Cause:</b>	(I) Infrastructure
<b>Specific Root Cause:</b>	(I2) Defective or failed equipment
<b>Equipment/Facility Involved:</b>	B-495 Evaporative cooling tower sump
<b>Equipment Type:</b>	Other (Add Description Below)
<b>Aircraft Type</b>	N/A
<b>FES Incident Number</b>	N/A
<b>Cause of Release</b>	Accidental Discharge due to Equipment Failure

**Description:**

On 21 Aug 2023 at 530pm, B-495 cooling tower sump overflow alarm alerted responding personnel to an overflow of 10-gallons of cooling tower water treated with Chemtex 3560-OT at a concentration of 100 ppm, Chemtex AA-4015 at a concentration of 150 ppm, Chemtex Bromex-16 at a concentration of 50 ppm. The release entered the riprap-lined swale south of the B-495. This swale is considered stormwater conveyance as it leads to the ADF-C pond through a series of inlets before exiting through outfall 3 on the west side of the base boundary. The release is considered an illicit discharge. Personnel noticed the release enter and infiltrate the riprap-lined vegetated swale where the release was contained. The release did not travel more than a few feet before infiltrating the ground. The cause of the release was due to the temporary valve replacement that failed. This temporary valve was a corrective action installed in response to a previous release of B-495 cooling tower.

In December 2023, a wastewater sampling investigation revealed trace amounts of PFAS substances in the cooling tower water.

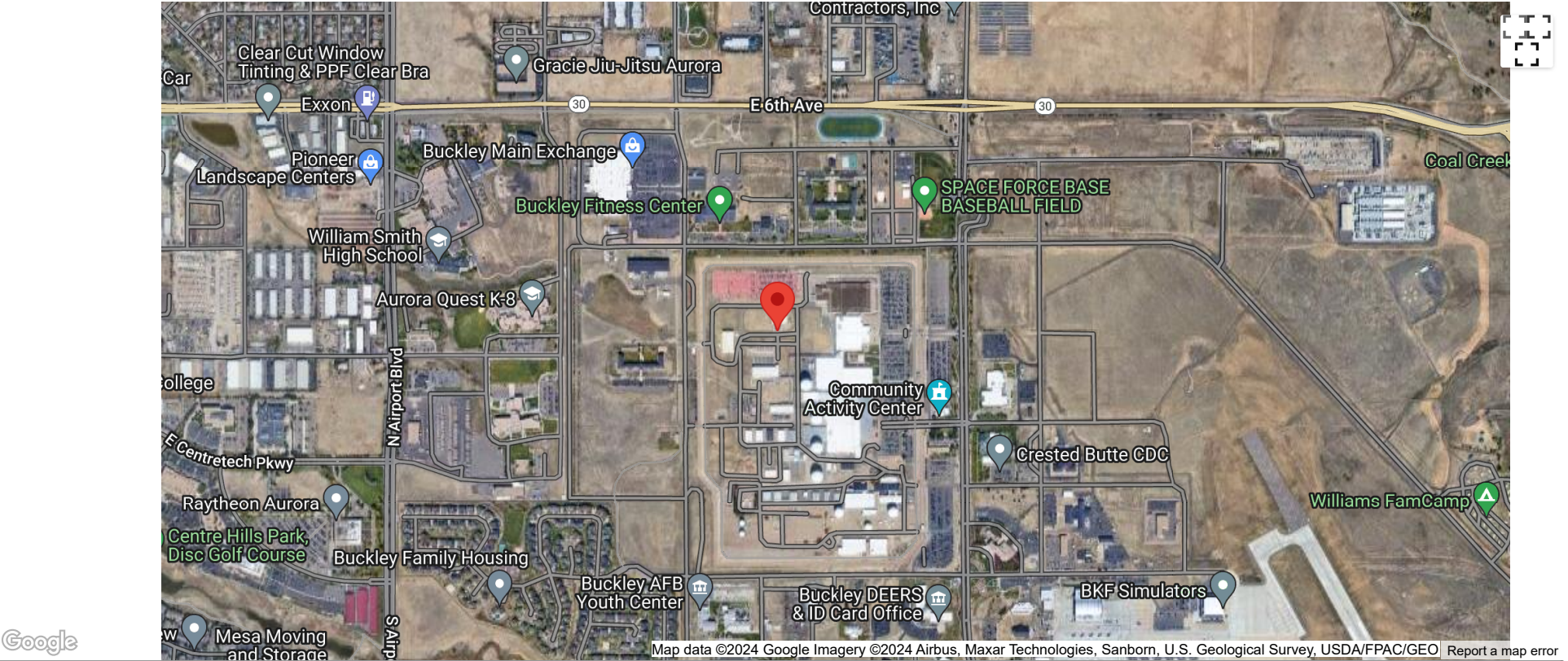
## Points of Contact

Type	Name	Email	Phone
Author	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	matthew.cohen.4@spaceforce.mil	

Location Map

Latitude:  
39.7199473952389

Longitude:  
-104.778499487218



Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Cooling tower treated water	10 Gallon(s)	0 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	

Question	Answer	Details
Did the release interrupt installation mission operations?	No	
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?	No	
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	Yes	10
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	No	
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	Yes	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	
External Communications		

Question	Answer
Was the Fire Department notified?	No
Has the Fire Department visited the release site?	No
Was the NRC notified?	No
Has the NRC visited the release site?	No

Question	Answer
Was an environmental regulatory agency notified?	No
Has an environmental regulatory agency visited the release site?	No
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
21 Aug Release Map.JPG	Supporting Document	Map	08/23/2023	08/23/2023
B495 Overflow Corrective Actions Summary.pdf	Supporting Document		02/06/2024	02/14/2024
Chemtex 3560-OT.PDF	Supporting Document		08/23/2023	08/23/2023
Chemtex AA-4015.PDF	Supporting Document		08/23/2023	08/23/2023
Chemtex Bromex-16.PDF	Supporting Document		08/23/2023	08/23/2023
RE_ CUI_ Non-expedited_ IOI - Cooling Tower Treated Water Buckley SFB 21 Aug 23.pdf	Correspondence	IOI	08/24/2023	08/31/2023

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
No Related Events have been added.									

Corrective Actions

Corrective Action 1

Status:	In Progress
Corrective Action:	Personnel noticed the release enter and infiltrate the riprap-lined vegetated swale where the release was contained. The release did not travel far before infiltrating the ground. The release did not travel any further than a few feet. Personnel immediately launched an investigation to determine the cause of the release and identify solutions to execute the repair. Current corrective action approach is to address in two phases. Phase 1 is underway and involves repairing some basic plant programming deficiencies in the cimplicity control system and improved monitoring of water flow into the condensor water bypass loop for remote observation at the integrated operations control center (IOCC). Phase 2 involves installing additional plant hardware to automate response procedures currently required to be accomplished upon responding to plant alarms. The hardware and additional logic will be connected to the cimplicity control system and reported to the IOCC. Phase 2 is currently unfunded and without an estimated completion date.

Notes:

**Air Force POC:**

COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

**Additional POC:**

matthew.rodgers.7@spaceforce.mil

**Additional Funding Required:****Est. or Act. Completion Date:**

07/31/2024

**Project/Work Order Title:****Project/Work Order Number:**

## Notifications

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil;	james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; katherine.need.1@us.af.mil;	EASIER: Spill Read and Received (Buckley)	A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4902">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4902</a>	08/23/2023 13:06	System
james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil;	matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil; charlton.hedden.3@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4902">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4902</a>	08/22/2023 13:50	System

To	CC	Subject	Message	Sent Date	Generated By
breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; katherine.need.1@us.af.mil;					

## History

Date	Action	Description / Comments	Generated By
03/20/2024 7:14:17	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/20/2024 7:13:53	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:26:58	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:25:17	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:46:20	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:42:10	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:41:23	Attachment Added	Supporting Document: B495 Overflow Corrective Actions Summary.pdf (02/06/2024)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:40:29	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/12/2023 8:56:02	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/31/2023 8:46:34	Attachment Added	Correspondence: RE_ CUI_ Non-expedited_ IOI - Cooling Tower Treated Water Buckley SFB 21 Aug 23.pdf (08/24/2023)	DELL, RONALD G CIV USAF AFMC AFCEC/CZOM
08/23/2023 8:31:34	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
08/23/2023 8:31:23	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 8:30:20	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 8:30:20	Event Edited	Status: Pending Corrective Actions	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 7:06:40	Event Read and Received		FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
08/23/2023 6:15:38	Attachment Added	Supporting Document: Chemtex Bromex-16.PDF (08/23/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 6:15:22	Attachment Added	Supporting Document: Chemtex AA-4015.PDF (08/23/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 6:15:04	Attachment Added	Supporting Document: Chemtex 3560-OT.PDF (08/23/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 6:13:50	Attachment Added	Supporting Document: 21 Aug Release Map.JPG (08/23/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/23/2023 6:12:13	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 10:21:32	Event Edited	Event Coordinates Updated	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 7:50:32	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 7:50:26	Corrective Action Added	Assigned To: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 7:49:53	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 7:49:35	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 7:49:35	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 7:48:04	Released Material Added	Cooling tower treated water	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Date	Action	Description / Comments	Generated By
08/22/2023 7:47:39	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
08/22/2023 6:50:13	POC Created	Author: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	System
08/22/2023 6:50:12	Event Created		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

Installation Details

Installation:	Buckley	Service/Command:	USSF	State:	CO
Sub Location:		Branch:	Midwest Branch	EPA Region:	8
		ISS:	Peterson		

Spill Details

Fiscal Year:	2023
Classification:	Reviewable
Reported to HAF?:	
Report to HAF Determination Date:	
Read/Received Date:	09/11/2023
Estimated Clean-up Date:	09/08/2023
Updated in EASIER:	03/20/2024
Entered in EASIER:	09/11/2023
Spill/Release Date:	09/08/2023 21:45
Was the release cleaned up within 24 hours?:	Yes
Did process owner have sufficient clean-up capabilities?:	No
Class:	CLASS III: Area > 10 lineal ft in any plane dimension, or > 50 sq ft, or of a continuous nature.
Overall Root Cause:	(I) Infrastructure
Specific Root Cause:	(I2) Defective or failed equipment
Equipment/Facility Involved:	B-495 Evaporative cooling tower
Equipment Type:	Other (Add Description Below)
Aircraft Type	N/A
FES Incident Number	N/A
Cause of Release	Accidental Discharge due to Equipment Failure
Description:	

On 8 Sept 2023 between 2145 and 2315, approximately 60-70 gallons of treated cooling water overfilled the B-495 cooling tower sump and released to the surrounding ground. Some of this water traveled into the adjacent rip rap-lined swale to the south of the cooling tower, constituting an illicit discharge. Personnel responded by shutting down the cooling tower to stop the release. The water that reached the ground either infiltrated the soil or evaporated. No water was recovered. The cause of the release was failed external valves that were being assessed during maintenance evaluation of the cooling tower equipment.

In December 2023, a wastewater sampling investigation revealed trace amounts of PFAS substances in the cooling tower water.

Points of Contact

Type	Name	Email	Phone
Author	<u>COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE</u>	matthew.cohen.4@spaceforce.mil	

Location Map

Latitude:  
39.720012535489

Longitude:  
-104.77852407772



Materials

Material Released	Qty Released	Qty Recovered	Reportable Quantity
Cooling tower treated water	70 Gallon(s)	0 Gallon(s)	N/A

Release Details

Question	Answer	Details
Did the release result in injury or loss of life?	No	
Did the release cause the loss of aircraft, spacecraft, or facility, or was the release caused by the loss of aircraft, spacecraft, or facility?	No	
Did the release interrupt installation mission operations?	No	

Question	Answer	Details
Did the release extend beyond installation boundaries at concentrations detectable visually, by odor, or in amounts expected to exceed state, federal or overseas FGS/OEBGD threshold concentrations based on environmental professional judgement?	No	
Did the release cause an estimated financial impact exceeding \$50,000?	No	
Did the release result in or is expected to result in litigation, negative publicity, or coverage by a major media outlet?	No	
Did the release reach waters of the US (or host nation) or a storm drain connected to such?	Yes	60
Did this spill occur on a vessel?	No	
Did the release involve 110 gallons or more of petroleum, oils, or lubricants (POL) on soil?	No	
Did the release involve petroleum, oils, or lubricants (POL) AND cause a film or sheen on nearby surface water?	No	
Is the release estimated to be equal or greater than the Reportable Quantity (RQ) as defined in 40 CFR §355.33 (includes CERCLA Hazardous Substances in 40 CFR 302.4 and EPCRA Extremely Hazardous Substances in 40 CFR 355 Appendix A) or overseas FGS/OEBGD?	No	
Did the release involve sewage AND it caused or is expected to cause an imminent and substantial threat to public health, safety or the environment?	No	
Do you believe this release should be reported to HAF, regardless of the spill quantity?	No	
Did the release result in political/host nation involvement?	No	
Did the release involve Aqueous Film Forming Foam (AFFF)?	No	
Did the release involve certain non-regulated emerging contaminant, similar to hazardous substances, including perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and 1,4-dioxane?	Yes	
Does the release present a continuing threat to the environment?	No	
Do you anticipate the release to result in an Enforcement Action?	No	
Did the release enter the sanitary sewer?	No	
External Communications		

Question	Answer
Was the Fire Department notified?	No
Has the Fire Department visited the release site?	No
Was the NRC notified?	No
Has the NRC visited the release site?	No
Was an environmental regulatory agency notified?	No

Question	Answer
Has an environmental regulatory agency visited the release site?	No
Was an OPREP submitted?	No
Release Notification Made to Supported entity for off-base mutual response	N/A

Attachments

File	Document Type	Description	Sent/Received	Upload Date
6261 SDS - Copy.pdf	Supporting Document		12/15/2023	12/20/2023
B495 Overflow Corrective Actions Summary.pdf	Supporting Document		02/06/2024	02/14/2024
Chemtex 3560-OT.PDF	Supporting Document	SDS	09/08/2023	09/11/2023
Chemtex AA-4015.PDF	Supporting Document	SDS	09/08/2023	09/11/2023
Chemtex Bromex-16.PDF	Supporting Document	SDS	09/08/2023	09/11/2023

Related Events

Event ID	Event Type	Details	Classification	Installation	Sub Location	Status	Occurred	Entered	Updated
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No Related Events have been added.

Corrective Actions

Corrective Action 1

Status:	In Progress
Corrective Action:	Personnel responded by shutting off the sumps to stop the overflow. The water that infiltrated the ground was not able to be recoved. Cooling tower 3 was locked out until triple duty valve is replaced with check valve. Personnel immediately launched an investigation to determine the cause for the release and outline solutions to repair the failed equipment that led to the release. Current corrective action approach is to address in two phases. Phase 1 is underway and involves repairing some basic plant programming deficiencies in the cimplicity control system and improved monitoring of water flow into the condensor water bypass loop for remote observation at the integrated operations control center (IOCC). Phase 2 involves installing additional plant hardware to automate response procedures currently required to be accomplished upon responding to plant alarms. The hardware and additional logic will be connected to the cimplicity control system and reported to the IOCC. Phase 2 is currently unfunded and without an estimated completion date.
Notes:	
Air Force POC:	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
Additional POC:	
Additional Funding Required:	
Est. or Act. Completion Date:	07/31/2024

**Project/Work Order Title:****Project/Work Order Number:**

Notifications

To	CC	Subject	Message	Sent Date	Generated By
matthew.cohen.4@spaceforce.mil;	james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil; brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; katherine.need.1@us.af.mil;	EASIER: Spill Read and Received (Buckley)	A Spill has been marked as Read and Received by FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM. Spill POCs should continue to update the Spill report until closure. Prior to closure, all corrective actions must be complete.  Comments: Please add the immediate corrective actions taken to stop the discharge and cleanup the spill. An IOI will be submitted for this release.  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4970">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4970</a>	09/11/2023 10:06	System
james.farris.3@us.af.mil; lynn.sherman@us.af.mil; ronald.dell@us.af.mil; janet.houthoofd@us.af.mil; william.barry@us.af.mil; monte.mcvay@us.af.mil; lana.hubbard@us.af.mil; scott.webb.5@us.af.mil; kristy.rouse@us.af.mil; curtis.frye@us.af.mil; laura.wilson.21.ctr@us.af.mil; amy.tegethoff.1@us.af.mil; sean.houseworth.4@us.af.mil; breton.frazer.1@us.af.mil; lisa.powell@us.af.mil; brandon.fellner.3@us.af.mil; jakob.rice.1@us.af.mil; carol.gaudette@us.af.mil; harry.eisenhauer.3@usspacecom.mil;	matthew.cohen.4@spaceforce.mil; kevin.leachman@us.af.mil; karla.meyer.1@us.af.mil; julia.mireles.1@us.af.mil; james.sato.ctr@us.af.mil; charlton.hedden.3@us.af.mil;	EASIER: New Spill Submitted (Buckley)	A new Spill has been submitted in EASIER for Buckley by COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE. The Spill was classified as "Reviewable" so Installation Support Section (ISS) and Regional Support Branch (RSB) personnel are required to review the Spill at the link below and either ISS or RSB can mark it as "Read and Received".  Comments: None  View Event: <a href="https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4970">https://usaf.dps.mil/teams/14074/Module/SpillDetails.aspx?SID=4970</a>	09/11/2023 9:54	System

To	CC	Subject	Message	Sent Date	Generated By
brilana.troublefield.ctr@us.af.mil; michelle.cason.1@us.af.mil; katherine.need.1@us.af.mil;					

History

Date	Action	Description / Comments	Generated By
03/20/2024 7:17:11	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
03/20/2024 7:15:14	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:22:36	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/20/2024 8:20:42	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:47:30	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:40:00	Attachment Added	Supporting Document: B495 Overflow Corrective Actions Summary.pdf (02/06/2024)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:38:44	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
02/14/2024 8:32:34	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
12/20/2023 5:46:33	Attachment Added	Supporting Document: 6261 SDS - Copy.pdf (12/15/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
11/01/2023 10:01:56	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 5:48:43	Event Edited	Event Coordinates Updated	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 5:41:10	Attachment Added	Supporting Document: Chemtex Bromex-16.PDF (09/08/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 5:40:03	Attachment Added	Supporting Document: Chemtex AA-4015.PDF (09/08/2023)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023	Attachment Added	Supporting Document: Chemtex 3560-OT.PDF (09/08/2023)	COHEN, MATTHEW E CIV USSF SpOC

Date	Action	Description / Comments	Generated By
5:39:14			460 CES/CEIE
09/11/2023 5:38:25	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 5:07:53	Event Edited	Status: Pending Corrective Actions	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 5:07:49	Corrective Action Edited	CA Assigned To COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress) modified	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 4:06:47	Event Read and Received	Please add the immediate corrective actions taken to stop the discharge and cleanup the spill. An IOI will be submitted for this release.	FELLNER, BRANDON A CIV USAF AFMC AFCEE/AFCEC/CZOM
09/11/2023 3:54:51	Event Submitted		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:54:35	Corrective Action Added	Assigned To: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE (In Progress)	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:44:31	External Communications Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:43:49	Event Edited		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:43:07	Event Edited	Classification: Reviewable	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:43:05	Release Details Questionnaire Answered		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:41:43	Released Material Added	Cooling tower treated water	COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE
09/11/2023 3:40:32	POC Created	Author: COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE	System
09/11/2023 3:40:30	Event Created		COHEN, MATTHEW E CIV USSF SpOC 460 CES/CEIE

## Illicit Discharge Detection and Elimination (continued)

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.
<p><u>IDE-4 Illegal Dumping and Non-Compliance Enforcement Procedures</u></p> <p>1. Document any illicit discharge and illegal dumping enforcement actions taken.</p>	<p><b>COMPLETED</b></p> <p>No enforcement actions (EAs) were required in Permit Year 10. In 2023, non-recyclable waste was illegally dumped at the free recycle containers on base. The wastes were solid and included large furniture, mattresses, yard waste and wood. All waste was evaluated, removed upon discovery, and moved to a proper waste disposal roll-off container. There were no hazardous wastes or liquids dumped at the site. All waste was evaluated, removed, and moved to a proper waste disposal roll-off container.</p> <p>During Permit Year 10, 460 CES/CEIE responded to illegal dumping with the following actions:</p> <p>Added “Do Not Dump Personal Property” stickers to the majority of dumpsters on base; Contacted the base Judge Advocate office to issue a cease-and-desist notice to all Buckley personnel; Notified the base of regulatory requirements; Continued monitoring game cameras installed at various locations on base; Voluntarily cleaned up the recycling area on 9 February and 9 May 2023; Removed</p>	<p>No</p>

	<p>the recycling area; Relocated hidden dumpsters (softball field dumpster and carcass dumpster); Posted messages to Buckley Facebook group pages; Sent messages to retirees via Retirement Activity Office (RAO); Created Integrated Solid Waste Management Team to discuss potential solutions for dumping and monitored results.</p> <p>No illicit discharge incidents occurred that resulted in enforcement actions (see BMP IDE-3).</p> <p>As a military installation, all personnel working, assigned, visiting, or otherwise having access to the installation are subject to specific laws, regulations, and policies while on Buckley SFB. Existing illegal dumping and non-compliance enforcement procedures for non-compliance with laws, regulations, and policies include the Uniform Code of Military Justice, contracts subject to Federal Acquisition Regulations (FAR), Air Force Instruction (AFI) 51-201 Law Administration of Military Justice, and AFI 36-704 Discipline and Adverse Actions of Civilian Employees.</p> <p>Enforcement procedures vary based on specific situations; military and civilian employees can receive verbal reprimands, written reprimands placed in employment records, demotions, loss of pay, discharge from Federal service, and the Installation Commander has the authority to bar individuals from accessing Buckley SFB.</p>	
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## Illicit Discharge Detection and Elimination (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>IDE-5 Allowable Non-Stormwater Discharges and Controls</u>  1. Conduct an annual review of allowable non-stormwater discharges listed in Paragraph 1.3.2 of the MS4 Permit. Identify if any category of allowable, non-stormwater discharge is a significant contributor of pollutants to the MS4. If a category of allowable, non-stormwater discharge is determined to be significant, the category is then considered an illicit discharge and controls must be enacted to minimize or eliminate the discharge.	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. IDE-5 is reported in the 1 November – 31 December 2023 annual report iteration.	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:

All information used to implement the program has been provided under the Measurable Goals.

#### 4. Construction Site Stormwater Runoff Control (CON)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>CON-1 Construction Project Oversight Program</u>  1. Develop a written construction oversight program and inspection plan for use by Buckley SFB stormwater managers. The construction oversight program will include a list of policies and procedures that can be used to enforce compliance with applicable stormwater discharge permits related to construction activities. The program will be continuously reviewed and updated annually as needed (Years 1–5, and into continuance).	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. CON-1 is reported in the 1 November – 31 December 2023 annual report iteration.	No

#### **REGULATORY MECHANISM TO REQUIRE SEDIMENT AND EROSION CONTROLS**

The regulatory mechanism used to require sediment and erosion controls on construction projects located on Buckley SFB is the 2022 Construction General Permit (CGP), under the National Pollutant Discharge Elimination System (NPDES), a federal permitting program, under the authority of the Clean Water Act (CWA). In the State of Colorado areas subject to construction activity by a Federal Operator (i.e., a federal facility) are not under the State's authority but are permitted under the authority of the Region 8 US EPA NPDES stormwater permitting under General Permit No. COR10F000.

The construction project contract and standard specifications specify stormwater discharges from construction activities such as clearing, grading, excavating, and stockpiling that disturb one or more acres, or smaller sites that are part of a larger common plan of development, are regulated under the 2022 CGP, for which construction operators must obtain coverage (i.e., prepare a construction Stormwater Pollution Prevention Plan (SWPPP) and obtain an active status Notification of Intent (NOI)) prior to commencing ground disturbing activity.

#### **PROCEDURES TO ADDRESS NONCOMPLIANCE AND ENFORCEMENT MECHANISMS**

Government contractors must comply with FAR and contract requirements that include environmental protection. Acquisition regulations and contracts contain specific enforcement provisions for non-compliance by contractors. Enforcement provisions include cure notices, contract termination, stop work orders, liquidated damages, negative contractor performance ratings, and being precluded from future government contracts. Enforcement against a government contractor is a contracting officer responsibility with input and support from quality assurance evaluator and subject matter experts on Buckley SFB.

## Construction Site Stormwater Runoff Control (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>CON-2 Construction Project Oversight Inspections</u></p> <p>1. Conduct oversight compliance assistance inspections of permitted construction sites (&gt; 1 acre or part of a larger common plan of development that will cumulatively disturb <math>\geq 1</math> acre) at least semi-annually and prior to construction permit termination to verify final stabilization has been met on all areas of the site. Buckley SFB has developed a spreadsheet-based prioritization model to guide additional construction oversight inspections based on project location, size, and nature of construction activity, site characteristics, and the compliance history of construction contractor.</p>	<p><b>COMPLETED</b></p> <p>Oversight construction compliance inspections are conducted on sites with &gt; 1-acre ground disturbance or are part of a larger common plan of development. A summary of construction site inspections conducted in Permit Year 10 follows:</p> <p>A total of 66 inspections were conducted on 21 different permitted project sites with 6 filing a Notice of Termination (NOT) before the end of the year. The model for frequency of inspection planning on a given project is based on several factors including type of project, size of disturbed area, construction timeframe and time of year, natural slope, and previous experience with the contractor.</p> <p>Exceptions to the planned frequency are made by the 460 CES/CEIE WQPM as needed. A copy of the inspection tracking spreadsheet, and planning guide score log is provided on the following pages.</p>	<p>No</p>

2022 CGP Tracking Number	Project Name	Project Manager Contact	Contractor	Contact Info	Construction Status	Date Active	Co-Permittee	Co-Permitte Number	Inspection Frequency (Months)	Last Inspected	Next Scheduled Inspection	Notes
COR10F023	<a href="#">Repair Main Apron Access, Batch Plant, Alert Pymt</a>	Chris Van Fleet 720-847-9100	NONE	Chris Van Fleet, christopher.van_fleet@us.af.mil, 720-847-9100, 303-868-2903; Earl Mikula, 140th COANG Environmental	NONE	2/23/2015	NONE	NONE	6	20-Sep-23	March (2024)	
MSP-5 COR10F087	<a href="#">East Toll Gate Creek</a>	Mike Mont-Eton	NONE	Bruce Gurney, Bruce.L.Gurney@usace.army.mil, 720-859-5048; Mike Mont-Eton, michael.mont-eton.1@spaceforce.mil, 847-1056, cell: 303-419-7042; Daniel Lavigne, daniel@rmecinc.com, 720-470-3817, Stanley Bouse, stan.bouse@elitesi.com	TERMINATED	1/21/2020	NONE	NONE	1	16-Nov-23	21-Dec-23	Project is inspected monthly by SWC
COR10F022	<a href="#">Runway 32 Extended Safety Area Grading</a>	Chris Van Fleet 720-847-9100	NONE	Chris Van Fleet, christopher.van_fleet@us.af.mil, 720-847-9100, 303-868-2903; Dr. Kimberly Bowman;	NONE	4/21/2014	NONE	NONE	6	1-Nov-23	April (2024)	Track ongoing UXO removal project
Not Available	<a href="#">AASF UH60 Hangar Project</a>	CPT Bailey Bullock	Iron Mike Construction	Julio Maldonado, 970-471-6987, jmalonado@ironmikeconstruction.com; Mike Yaggi, President, Iron Mike Construction, (303) 407-8690; myaggi@ironmikeconstruction.com; CPT Bailey Bullock bailey.d.bullock.mil@army.mil, USARMY NG COARNG; Steer, Teresa D NFG NG COARNG, teresa.d.steer.nfg@army.mil; Lonnie.r.funk.nfg@army.mil; Lukas Gilbert, Superintendent/Quality Control, Iron Mike Construction	RENEWAL APPROVED	9/3/2020	Iron Mike Construction	COR10F07P	6	30-Aug-23	February (2024)	Contractor response pending for report sent 10-Nov-22; Followed-up on 29-Nov-22 and 7-Dec-22; Contractor response received from April-23 CGP inspection report.
COR10F086	<a href="#">COARNG BAFB Drainage Site Improvements</a>	Domenick Scarimbolo	Happel Builders	Brad Silk, bsilk@happelbuilders.com; Teresa Steer, DMVA, COARNG; Robert Edmondson, Happel Builders; domenick.j.scarimbolo.nfg@army.mil; Dustin Jones, Project Manager, DMVA COARNG, dustin.d.jones12.nfg@army.mil;	TERMINATED	1/25/2021	Happel Builders	COR10F024	6	30-Aug-23	April (2024)	Awaiting final stabilization. Contractor response pending for Sept and Nov 2022 inspection reports; Followed-up with Brad Silk again on 28-Nov-22; Contractor response to 2-Nov-23 remains overdue as of 13-Dec-2023; Response also not received to April 2023 report.
COR10F06D	<a href="#">Convert B1553 to VCC</a>	Michael Hammond	Bristol General Contractors LLC	Mike Thacker, mthacker@bristol-companies.com; Jeff Hubbard, jhubbard@bristol-companies.com; Darren Fike, dfike@bristol-companies.com; (406) 210-0030; Vicente "Vic" Rebuglio (quality control manager), (720-459-7100); cell: (210) 204-6973; Chris White, Quality Control Systems Manager, cwhite@bristol-companies.com; Bart Long, Project Engineer, Bristol General Contractors, (276) 224-9660;	ACTIVE	4/14/2021	460SW	MSP-5 COR10F087	6	2-Nov-23	N/A	Final stabilization achieved; Contractor will be requested to file the NOT in the 13-Dec-23 inspection report.
COR10F070	<a href="#">Buckley SFB SW Ponds Repair</a>	Mike Mont-Eton, Jon Gard	Kodiak Development Group	Vern Rowe, Superintendent, vrowe@olgoonik.com; Shannon Steiner, SWPPP Admin and Inspector, shannon@kodiakdevelopmentgroup.com, cell: (719) 201-0003; Kelsey Larsen, SWPPP Asst Admin, kelsey@kodiakdevelopmentgroup.com; Tom Kjosén, Project Manager, tkjosén@olgoonik.com; Mike Mont-Eton, michael.mont-eton.1@spaceforce.mil, 847-1056, cell: 303-419-7042; Charles Smith, charles.smith.101@spaceforce.mil, 720-847-6377; CONTRACTING OFFICER: Jenny Meadlin, jenny.meadlin@spaceforce.mil, 720-847-6674; Brittainy Shirley, brittainy.shirley@spaceforce.mil, 720-847-6674;	ACTIVE		460 SW	MSP-5 COR10F087	4	13-Dec-23	April (2024)	Contractor response pending; Due 27-Dec-23

COR10F08G	<a href="#">Buckley SFB Underground Water Utility Replacement</a>	Michael Pool	QP Services	Larry Kammerlohr, Project Manager/Estimator, lkammerlohr@ironwomancon.com, 720-253-6251; Michael Pool, Project Manager Flour, michael.s.pool@fluorgov.com; Ashley Nieto, Iron Woman Construction, anieto@ironwomancon.com; Chris Clark, chris.a.clark@fluorgov.com	ACTIVE	12/1/2022	ADF-C7	NONE	5	6-Dec-23	March (2024)	Phase 1 is scheduled to conclude at the end of Dec-22 and Phase 2 at the end of Feb-23; Include Ashley Nieto when scheduling inspections; 7-Jun-23 contractor response received.
COR10F07H	RECAP-3	Mark Wika	MCDean	Eric Fuqua@MCD.EAN.COM; Project Manager, MCD.EAN; Bill Patterson (william.a.patterson@usace.army.mil), Construction Management Specialist, USACE; Mark Wika (Mark.D.Wika@usace.army.mil), Senior Construction Representative, USACE; Caracillo, Joseph M CIV USARMY CENWO (USA) <Joseph.M.Caracillo@usace.army.mil>; LeMessurier, Philip Allen (Allen) CTR USARMY CEHQ (USA) Philip A.Lemessurier@usace.army.mil; Scott Calahan, Scott.Calahan@MCD.EAN.COM; Duane Bartley, Duane.Bartley@MCD.EAN.COM; Kaiwanta Ortiz, Safety Manager, MCD.EAN, (720) 234-7456, kaiwanta.ortiz@mcd.ean.com	ACTIVE		USACE	NONE	4	8-Nov-23	21-Dec-23	Project is inspected monthly
COR10F087	Multiple Small Projects - 5	Matt Cohen	N/A	(720) 847-4655	NONE	5/31/2022	Multiple Contractors	NONE	1	29-Nov-23	N/A	
COR10F08R	BLUE MARLIN APA Force Main Upgrade		Whiting-Turner	Matt Nolan, matt.nolan@whiting-turner.com, Superintendent; Caroline Bonin (caroline.bonin@whiting-turner.com), Project Engineer; Andy Lindberg, Project Engineer, AWS, elindbe@amazon.com; Jon Gard, Construction Manager 460 CES/CENM, jonathan.gard@spaceforce.mil; Mike Mont-Eton, Project Manager 460 CES/CENM, michael.mont-eton@spaceforce.mil	ACTIVE	Late August 2022	460 CES/CEIE	NONE	Project Dependent	N/A	Pending	Project is close to stabilization/Pending rill erosion repair; Response was due 11-August-2023; Followed-up on 16-August-2023; Response not received.
COR10F08I	ADD/ALTER Sewer Main B606	Jon Gard		Caleb Bottoms, (caleb.bottoms@elitesi.com), Project Manager, Russell Lovato, (russell.lovato@elitesi.com), Stan Bouse (stan.bouse@elitesi.com), Site Supervisor, Elite Surface Infrastructure, 720-626-4116; Jack Swearingen (Jack.swearingen@elitesi.com); Steven Shannon; sshannon@skybluebuilders.com; (303) 656-6001; COR:	ACTIVE	Aug-22		NONE	5	21-Sep-23	Jan-24	Construction completed/Awaiting final stabilization (Oct 2022); Seeding completed 9/30/2022.
COR10F0A7	CRWU 21-1048 - Construct Sidewalk Along A-Basin Ave B331	Mike Mont-Eton	Sky Blue Builders	Russell Lovato, Elite Surface Infrastructure (ESI), (720) 626-2825, russell.lovato@elitesi.com; Josh McBeth, Project Manager, Sky Blue Builders, (720) 939 8876, jmcbeth@skybluebuilders.com	ACTIVE	2-Oct		NONE	4	26-Jul-23	March/April 2024	
COR10F0A3	Buckley Joint Cryptologic Center	Frank Soto	Tepa	Frank Soto, Senior Construction Representative, USACE, (303) 263-9337 Cell, frank.e.soto@usace.army.mil; Richard Hauck, Superintendent/SSHO, TEPA; Mark Wika (Mark.D.Wika@usace.army.mil), Senior Construction Representative, USACE;	N/A	Sep-23	N/A	NONE	1	29-Nov	2-April	Contractor response wasn't received to either inspection report. See note in project folder. 2-April-2024 inspection date requested.
COR10F08R	APA Force Main (SWPPP Modification)	David LaRoach	Whiting-Turner	Austin Masse, Project Manager, Whiting-Turner; David LaRoach, Project Manager, Whiting-Turner;	ACTIVE	PENDING		NONE	3	16-Nov-23	Pending	First inspection invite pending
COR10F0A9	BSFB B210 RENOVATIONS CRWU 20-1035	Michael Hammond; Jon Gard		Shannon Steiner, SWPPP Administrator and Inspector, Kodiak Development Group, Inc., shannon@kodiakdevelopmentgroup.com, (719) 201-0003; Domonica Cruz, Inspector, Kodiak Development Group, Inc., dom@kodiakdevelopmentgroup.com, (719) 654-2418;	INACTIVE	PENDING		NONE	1	N/A	Pending	First inspection invite pending

## MS4 Oversight Inspection Planning Guide

### Construction Project Site Score Sheet

Site Name: \_\_\_\_\_

Category Description		Score Parameters	The Site	Score
1	Area of Disturbance	0 - 1	1	
		>1 - 3	2	
		>3 - 5	3	
		>5 - 7	4	
		>7 - 9	5	
		>9 to 11	6	
		>11 - 14	7	
		>14 - 17	8	
		>17 - 20	9	
		20+	10	
2	Anticipated Construction Period in months	0 - 1	1	
		>1 - 3	3	
		>3 - 6	5	
		>6 - 9	7	
		>9 - 12	9	
		>12	10	
3	Adjacent to E. Tollgate Creek or its Tributary	No	1	
Yes	10			
4	Construction Season	Oct thru Mar	1	
		Apr thru Sep	5	
		All year	10	
5	Slope of Site (avg)	1% = 1 thru 10% and greater = 10	1 - 10	
6	Past Experiences with the Owner/Contractor (Note: This is a subjective evaluation)	1 (excellent), 5 (OK) or 10 (Poor)	1, 5, 10	
7	Type of Construction Activity (Note: 10 is maximum)	Landscaping/Reseeding	1	
		Grading	2	
		Road Construction	3	
		Building Construction	3	
		Utility Construction	3	
		Batch Plant	10	
Note: Score sheet is a guideline and may be re-evaluated and adjusted at any time.				Sum

#### Results

Score of 56 to 70

Score of 36 to 55

Score of 16 to 35

Score of 7 to 15

#### Frequency of Oversight Inspections

Every 3 months

Every 4 months

Every 5 months

Every 6 months

*In addition to the above frequency an inspection prior to close-out of the permit is required. Advise contracting of the state of revegetation.*

MS4 Sect. 2.5.6: Implement an inspection plan and keep a copy of that plan which provides inspection triggers, a priority for order of inspections, and a required timeframe upon which construction sites must be inspected by Buckley AFB. All construction sites within Buckley AFB must be inspected at a minimum semi-annually, and all sites must be inspected prior to construction start/master permit construction to verify that 70% vegetation cover has been met on all areas of the site.

## Construction Site Stormwater Runoff Control (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>CON-3 Construction Site Stormwater Training</u>  1. Document the number of Buckley SFB construction site quality assurance personnel who have received construction stormwater compliance annual training.	<b>COMPLETED</b>  Construction stormwater training was conducted in-person on 9 March 2023 with 18 attendees consisting of Buckley SFB personnel and contractors. A copy of the slides is available through the 460 CES/CEIE office. They have been excluded from this report due to the size of the slide show (approximately 100 PowerPoint slides). Roster can be found on the following page.	No

**Stormwater Compliance Training for Construction Activities at Buckley SFB**  
**09 Mar-2023**

Name	Email	Phone	Company/Organization	First Time Attending? Y/N
Greg Vierra	gregory.vierra.2.cfr	847-6308	SRS	Y
Kerry Beck	j/beck@doescorp.com	512-529-1999	SRS	Y
Jenny Meadlin	jenny.meadlin@spaceforce.mil	847-6674	460 CONS/PKA	Y
Stan Boase	Stan.Boase@Elitest	720-626-416	ESI	Y
Bill Patterson	william.e.patterson@USACE-Army.mil	701-601-3725	USACE	N
Ryan G. Patrick	Ryan.S.G.PATRICK@USACE.Army.mil	720-812-0000	USACE	Y
Matt Nolan	MNolan@OMG.com	617-828-0266	WT	Y
Joshua Airbagast	joshua@ibiconstruction.com	719-258-4490	IBI	Yes
Gabe A-Nance	SAFETY@IBIConstruction.com	719-449-5048	IBI	Yes
Teresa Steer	Teresa.D.Steer@army.mil	720-250-1396	CONEX	No
Shelly Hoover	Shoover@ironwomancon.com	303-581-7210	Iron Woman	Y
Zachary Budzik	Zachary.budzik@hpmcontracting.com	511-514-3330	HPM	Yes
Beth Seppala	bseppala@doescorp.com	303-717-9900	SRS	N
Christopher Clark	Chris.C.Clark@Fluor.com	303-677-6775	Fluor	Yes
Phillip Clark	Phillip.Clark@Fluor.com	303-677-5412	Fluor	Yes
David Seither	david.seither@fluor.com	303-677-5809	Fluor	Yes
Vadim Podinovskiy	Vadim.podinovskiy@fluor.com	303-880-4435	Fluor	Yes
Amrose - Precision	Amrose@precision@medcon.com	774-3426517	MC Deery	Yes

## Construction Site Stormwater Runoff Control (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No).  If yes, provide information on proposed changes and rationale.
<u>CON-4 Design Review and Construction Site BMP Information</u>  1. Maintain existing review process for design and construction projects planned for Buckley SFB.	<b>COMPLETED</b>  Existing design review processes/practices are being followed. Project plans/specs/reports are emailed to make the documents available for review. A tracking spreadsheet is distributed weekly to the 460 CES review group containing suspense dates and completion of review status. The 460 CES/CEIE WQP review documents for compliance with stormwater permit requirements/regulations applicable to projects located on Buckley SFB such as 2022 CGP and Energy Independence and Security Act (EISA) Section 438. Comments are provided back to the issuing source for incorporation by the project design team.  The 460 CES/CEIE WQP staff conducted 78 project design reviews for 14 projects that required stormwater comments in 2023.	No
2. Maintain existing process for identifying construction site BMPs and providing such information to project construction contractors (Year 2-5).	<b>COMPLETED</b>	No

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No). If yes, provide information on proposed changes and rationale.
3. Hold preconstruction meetings with the contractors and project management staff to ensure BMP related questions and requirements are addressed prior to BMP installation on 50% of new construction projects (Years 4- 5).	<p><b>COMPLETED</b></p> <p>460 CES/CEIE personnel met construction contractors and project management staff prior to groundbreaking to inspect stormwater BMP installation, and to clarify expectations of working on Buckley SFB. Environmental staff met onsite at 3 of the 5 (60%) new construction projects in Permit Year 10. The project preconstruction meeting dates are as follows:</p> <ol style="list-style-type: none"> <li>1. 14-September-2023 (BSFB JCC project)</li> <li>2. 2-November-2023 (Blue Marlin Pad 1 Sanitary Line Relocation project)</li> <li>3. 8-November-2023 (BSFB Building 210 Renovations project)</li> </ol> <p>The “Construct Sidewalk Along Arapahoe Basin Avenue Building 331” project preconstruction meeting was missed. Construction began on 2-October-2023. The “BSFB Mill and Overlay Base Wide” project preconstruction meeting was missed. Construction began on 1-November-2023.</p>	No

## Construction Site Stormwater Runoff Control (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No).  If yes, provide information on proposed changes and rationale.
<u>CON-5 Site Plan and Construction SWPPP Review</u>  1. Maintain existing site plan and SWPPP review process. Document site plan and SWPPP reviews and record any comments provided to the construction entity pertaining to the contractor's SWPPP. Dates and copies of SWPPP review comments will be maintained by 460 CES/CEIE.	<b>COMPLETED</b>  The file of SWPPP reviews and comments provided by 460 CES/CEIE WQP for applicable construction projects conducted in Permit Year 10 is maintained in 460 CES Environmental Office files. A total of 7 SWPPP reviews were conducted for 7 new projects requiring the Plan on Buckley SFB. Buckley SFB also reviews SWPPP documentation of active construction sites as part of CON-2.	No

### **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:

All information used to implement the program has been provided under the Measurable Goals.

## 5. Post-Construction Stormwater Management in New Development and Redevelopment (PC)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No).  If yes, provide information on proposed changes and rationale.
<u>PC-1 Post-Construction Stormwater Management Process</u>  1. Maintain existing review process for new development and re-development projects planned for Buckley SFB. Include evaluation of pre-development and post-development runoff conditions in design review process (Years 2–5).	<b>COMPLETED</b>  In Permit Year 10, there were three pre-development projects reviewed for water resource environmental impact analysis (as part of Air Force Form 813) that includes requirements to implement post-construction stormwater management controls. The Air Force Form 813 is an environmental impact analysis that is used as part of the NEPA vetting process on base.  Comments are provided to the initiating group so that any necessary controls may be incorporated during the design process. Project evaluations during the design process are maintained by 460 CES/CEN. BMPs are used in all projects with soil disturbances, EISA 438 stormwater criteria are used in projects greater than 5,000 square feet, and a SWPPP is initiated for projects impacting one acre or larger. All projects are considered for predevelopment hydrology.	No

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

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No).  If yes, provide information on proposed changes and rationale.
<u>PC-2 Impracticability Determination Documentation for Post-Construction Stormwater Controls</u>  1. Document all impracticability determinations and provide supporting documentation to the Water Quality Program Manager (Years 2–5).	<b>COMPLETED</b>  In Permit Year 10, 460 CES/CEN confirmed there were no projects that documented reasons of impracticability for implementing Post-Construction Stormwater Controls.	No

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

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No). If yes, provide information on proposed changes and rationale.
<p><u>PC-3 Inventory Visual Inspection, and Maintenance of Post-Construction Controls</u></p> <ol style="list-style-type: none"> <li>1. Conduct annual review of the post-construction stormwater controls inventory/map and make required updates (Years 2–5).</li> </ol>	<p><b>COMPLETED</b></p> <p>In Permit Year 10, the permanent post-construction stormwater controls were inspected during the permit year and the report was submitted on 17 January 2024. The inspection report contained recommendations for work orders. There was one new permanent post-construction stormwater controls completed and accepted by Buckley in 2023. This control included the Stormwater Channel (Building 1005). A sample of the improved Buckley SFB stormwater maintenance tracking sheet is shown on page 90.</p>	<p>No</p>

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No). If yes, provide information on proposed changes and rationale.
2. Inspections of any permanent post-construction stormwater control measures that are under warranty, typically one year following installation, will be annotated and the appropriate official responsible for warranty enforcement will be notified (Years 2–5).	<b>COMPLETED</b> Buckley SFB currently has a process in place for evaluating projects under warranty for corrections. All projects are assessed during the last month of the warranty period and remaining punch list items are documented and corrected by the contractor. All corrections are documented and maintained by 460 CES/CONF.	No

CEIE Stormwater Permanent BMP WO Tracking						
Location of Issue	Date Inspected (Type of inspection)	Issue Description	Work Order Status	Funding Mechanism	Work Task Number (Date submitted)	Description of Request
Detention Basin Recommended Repairs						
Permanent BMP: 1MW Pond; Facility Number: 84142						
East inlet	12/13/2023 (annual inspection)	Moderate amount of sediment observed.	Review in progress	Repair -TRIRIGA	Work Request 3481572 (1/10/2024)	At the 1MW stormwater pond, sediment accumulation observed at the east inlet and inlet channel lined with riprap. Request the sediment be removed.
Inlet channel and within rip rap	12/13/2023 (annual inspection)	Moderate amount of sediment observed.	Review in progress	Repair -TRIRIGA	Work Request 3481572 (1/10/2024)	
Permanent BMP: AASF Pond; Facility Number: 1138463						
Just to the NW of the SE inlet	11/8/2023 (2023 Anual)	Minor erosion was observed just to the west of the riprap pad present; repair is recommended before further damage occurs.	Active	Repair -TRIRIGA	Work Request 3481734 (4/12/2023) Task ID: 12806831	Minor erosion observed northwest of the southeastern pond inlet. Excessive weed growth within the forebay of the bond. Channel erosion is occurring in the vegetated channel between Building 1025 and Building 1054. Request the erosion be mitigated with erosion control blanket and the weeds be removed.
Channel between B-1025 and B-1054	11/8/2023 (2023 Anual)	Bank erosion observed.	Active	Repair -TRIRIGA	Work Request 3481734 (4/12/2023) Task ID: 12806831	
Just to the North of the south-central inlet.	11/8/2023 (2023 Anual)	Weeds are growing within theforebay.	Active	Repair -TRIRIGA	Work Request 3481734 (4/12/2023) Task ID: 12806831	
Permanent BMP: ADF Pond; Facility Number: 1138463						
East inlet of pond adjacent to Telluride St.	11/9/2023 (2023 Annual)	Rill formed from street at east inlet on the Southeast corner of ADF pond.	Active	Repair -TRIRIGA	Work Request: 3481765 (4/12/2023) Task ID: 12806867	At the ADF-C pond, the east inlet of pond, adjacent to Telluride street, an erosion rill has formed at the east inlet at the southeastern corner of the pond. There is also some trash at the south east inlet that should be removed. Excessive weed growth observed at the northwest pond inlets to the west of the car wash. At the east inlet channel some channelization is occurring. Request maintenance of these items by removing weeds and installing erosion control blankets to prevent erosion from worsening.
Northwest pond inlets	11/9/2023 (2023 Annual)	Excessive weed growth observed	Active	Repair -TRIRIGA	Work Request: 3481765 (4/12/2023) Task ID: 12806867	
East Inlet channel	11/9/2023 (2023 Annual)	Channelization on far east side of basin was observed.	Active	Repair -TRIRIGA	Work Request: 3481765 (4/12/2023) Task ID: 12806867	
Permanent BMP: Airfield Apron Pond						
No issues observed	12/13/2023 (2023 Annual)	N/A	N/A	N/A	N/A	N/A
Permanent BMP: ARPC Pond						
No issues observed	12/13/2023 (annual inspection)	N/A	N/A	N/A	N/A	N/A
Permanent BMP: ARPC/ARTF Pond						
1st sediment basin (east side)	12/13/2023 (annual inspection)	Accumulated sediment and small rocks should beremoved.	WO Needed	Repair -TRIRIGA	Work Request Needed	At the ARPC/ARTF pond, located 50 feet southwest of Building 392, accumulated sediment was observed in the east basin and some bare spots were observed within the pond. Recommend removing sediment and re-seeding the bare spots.
Pond berm - East side	12/13/2023 (annual inspection)	Bare spots observed	WO Needed	Repair -TRIRIGA	Work Request Needed	
Permanent BMP: Aspen/Steamboat Pond						

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

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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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No). If yes, provide information on proposed changes and rationale.
<u>PC-4 Visual Inspection of New Post-Construction Stormwater Controls</u>  1. Document inspections of all newly installed post-construction stormwater control measures prior to closing out contracts (Years 2–5).	<b>COMPLETED</b>  In Permit Year 10, there was one (Stormwater Channel - Building 1005) new permanent post-construction stormwater control completed. All projects are assessed during the last month of the warranty period and remaining punch list items are documented and corrected by the contractor; or, by specific items previously accepted by the government but now exceed warranty time limits.	No

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

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal?</b> (Yes/No).  If yes, provide information on proposed changes and rationale.
<u>PC-5 Natural Resource Management Plan Update</u>  1. Hydrologic performance standards and information related to design and maintenance of permanent post-construction stormwater controls are included in natural resource plans when these plans are updated (Year 5)	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. PC-5 is reported in the 1 November – 31 December 2023 annual report iteration.	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:

All information used to implement the program has been provided under the Measurable Goals.

## **6. Pollution Prevention/Good Housekeeping for Municipal Operations (P2)**

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>P2-1 Conduct Annual Stormwater Training for All Fleet Maintenance and Civil Engineer Shops</u></p> <p>1. Conduct annual training of fleet maintenance and civil engineer shops. Maintain attendance roster and training date.</p>	<p><b>COMPLETED</b></p> <p>For Permit Year 10, the annual stormwater training for fleet maintenance and civil engineer shop personnel was conducted in person at Buckley SFB on 29 June 2023. 18 personnel from Amazon Web Services (AWS), 460 CES/CEO, 460 LRS, 140 CES Operations Flight, 140 LRS, Colorado Army National Guard (COARNG), 460 CES/WFSM, Navy and Aerospace Data Facility of Colorado (ADF-C) attended the training.</p> <p>The attendance roster can be found on the following page.</p>	<p>No</p>

MS4 Stormwater Training for Fleet and Civil Engineering Shops				
29-Jun-23				
Name	Rank	Organization	Number	Email
David Oenes	CIV	460 LRS	847-9374	Global
Daniel Aragon	CIV	460 LRS	847-9374	
James Perkins	CIV	460 LRS	847-9374	James.Perkins.23@spaceforce.mil
ERIC LUDWIG	CIV	460 LRS	847 9306	ERIC.LUDWIG.2@SPACEFORCE.MIL
Jacob Blankenship	CIV	ADF-C	677-5680	Jacob.Blankenship@fluorogou.com
Dale Lavigne	CIV	ADF-C	303-677-5792	lavigned@afd.mil
Anne Gowan	CIV	ADF-C	677-3008	anne.gowan@fluorogou.com
Jacob Stahl	CIV	460 CES	847-6790	JACOB.STAHL@SPACEFORCE.MIL
Joshua Cardwell	CIV	460 LRS	847-9321	
Kinshady Gowan	CIV	140 CES	847-9042	Global
Bradley Nutt	CIV	AWS		
Paul Wright	CIV	AWS	720-254-4149	PW1WR@amazon.com
Alan Roth	CIV	140 LRS	720-847-7516	alan.roth.1@us.af.mil
Teresa Steer	CIV	COARNG		
Todd Light	CIV	460 CES/WF3M	720-847-9662	William.light.2@spaceforce.mil
Broderick Jones	YN1	Navy JRIC		broderick.h.jones.mil@us.navy.mil
Nikolai Gurdian	CIV	AWS		ngurdian@amazon.com
Briana Bailey	CIV	AWS	808-634-9404	Brbail@amazon.com

## Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>P2-2 Snow and Ice Control Training</u>  1. Conduct training once per year and maintain an attendance roster.	<b>COMPLETED</b>  Snow and ice control training session was conducted by 460 CES/CEO on 19 September 2023 for 23 personnel. The roster of attendees can be found on page 100 of this document. The training included procedures for plowing snow on Buckley SFB and everything that goes into snow operations such as: <ul style="list-style-type: none"> <li>• Plow assembly/disassembly</li> <li>• Blade change procedures</li> <li>• Dump truck operating/maintenance procedures</li> <li>• Sidewalk clearing procedures</li> <li>• Sidewalk clearing equipment attachment overview</li> <li>• Street plowing procedures</li> <li>• Parking lot clearing procedures</li> </ul>	No

## Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

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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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>P2-3 Street Sweeping</u></p> <p>1. Accomplish an average of 20 hours of street sweeping per month.</p>	<p><b>COMPLETED</b></p> <p>The 460 CES/CEOHP shop reported an average of 19 hours of street sweeping per month during 1 January - 31 December 2023.</p> <p>140 CES/CE COANG completed 286 hours of street sweeping or an average of 23.8 hours of street sweeping per month during 1 January - 31 December 2023.</p>	<p>No</p>

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
2. Perform an annual evaluation of the schedule and document the evaluation (Years 2- 5).	<b>COMPLETED</b> In accordance with Permit Part 2.7.8.2, evaluation of the street cleaning operation in Permit Year 10 determined that sweeping will continue to focus on more highly trafficked areas and locations where sediment and debris accumulate, rather than a set route of streets. Operations are evaluated daily through the Buckley SFB Preventive Maintenance program and visual inspections.	No

	Snow & Ice Control Training 19-Sep-2023	
	Rank	Name
1.	SrA	Goldsmith
2.	A1C	Muns
3.	SrA	Thomas
4.	SrA	Silla
5.	A1C	Raines
6.	SrA	Brady
7.	SrA	Lockhart
8.	TSgt	Wilson
9.	TSgt	Smith
10.	Tsgt	Rojas
11.	A1C	Rodriguez-Martinez
12.	A1C	Isaman
13.	SSgt	Buck
14.	SrA	Cremonese
15.	A1C	Lankford
16.	TSgt	Lawson
17.	SSgt	Phillips
18.	SSgt	Schroder
19.	Amn	Datahan-Jimenez
20.	SrA	Clay
21.	Lt	Allen
22.	Lt	Fetzner
23.	Lt	Amer

## Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

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1. The BMP/Measurable goal for which a change is proposed;
2. Any proposed changes to the BMP description;
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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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>P2-4 Storm Drain Inlet Inspection and Maintenance Schedule</u></p> <ol style="list-style-type: none"> <li>1. Inspect an average of 5% of storm drain inlets and culverts per quarter. Document cleaning activities, waste disposal practices, and amount of debris collected during maintenance (Year 2-5).</li> </ol>	<p><b>PARTIALLY COMPLETED</b></p> <p>The inspection schedule was established to meet the 5% per quarter goal and a minimum of 34 storm drain features inspected monthly. During Permit Year 10, 460 CES/CEIE inspected 30 culverts (7% of the total number of features on base), 178 inlets (11%), and 83 manholes (11%). 460 CES/CEIE will increase these inspections to ensure these reach the prescribed inspection rate of 5% of storm drain features per quarter for a minimum of 34 culverts, inlets, and manholes each month. In addition, a new progress tracking spreadsheet (see page 103) with data obtained using a developed ArcGIS Field Maps application has been implemented.</p>	<p>No</p>

<p>2. Develop a maintenance schedule based on inspection results. Perform an annual evaluation of the schedule and document the evaluation (Year 2-5).</p>	<p><b>COMPLETED</b></p> <p>At the end of 2023, no inspections resulted in required maintenance being input into NEXGEN IT for repair. Stormwater features will continue to be inspected and as findings are documented, maintenance requests will be submitted and repaired in accordance with Buckley SFB work request priorities.</p>	<p>No</p>
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FID	FEATURENAM	Trash, Sediment or Debris	Trash or Debris in Inlet/Outlet Pipe or Opening	Dead Animals or Decaying Vegetation	Vegetation in Pipe	Vegetation Blockage	Contamination and Pollution
23	Storm Sewer Headwall Point	Yes	Yes	No	No	No	No
24	Storm Sewer Headwall Point						
25	Storm Sewer Headwall Point						
26	Storm Sewer Headwall Point	No	No	No	No	No	No
27	Storm Sewer Headwall Point	No	No	No	No	No	No
28	Storm Sewer Inlet						
29	Storm Sewer Inlet						
30	Storm Sewer Inlet						
31	Storm Sewer Inlet			No		No	No
32	Storm Sewer Inlet	No	No	No	No		No
33	Storm Sewer Inlet						
34	Storm Sewer Inlet						
35	Storm Sewer Inlet						
36	Storm Sewer Inlet	Yes	Yes	No	No	No	No
37	Storm Sewer Headwall Point						
38	Storm Sewer Headwall Point						
39	Storm Sewer Headwall Point	No	No	No	No	No	No
40	Storm Sewer Headwall Point						
41	Storm Sewer Headwall Point						
42	Storm Sewer Headwall Point	No	No	No	No	No	No
43	Storm Sewer Headwall Point						
44	Storm Sewer Headwall Point						
45	Storm Sewer Headwall Point	No	No	No	No	No	No
46	Storm Sewer Headwall Point						
47	Storm Sewer Headwall Point						
48	Storm Sewer Headwall Point						
49	Storm Sewer Headwall Point						
50	Storm Sewer Headwall Point						
51	Storm Sewer Headwall Point						
52	Storm Sewer Headwall Point						
53	Storm Sewer Headwall Point						
54	Storm Sewer Headwall Point	No	No	No	No	No	No
55	Storm Sewer Headwall Point						
56	Storm Sewer Headwall Point						
57	Storm Sewer Headwall Point						
58	Storm Sewer Headwall Point						
59	Storm Sewer Headwall Point						
60	Storm Sewer Headwall Point						
61	Storm Sewer Headwall Point						
62	Storm Sewer Headwall Point						
63	Storm Sewer Headwall Point	NA	No	No	No	No	NA
64	Storm Sewer Inlet	No	No	No	No	No	No
65	Storm Sewer Inlet	No	No	No		No	No
66	Storm Sewer Inlet						
67	Storm Sewer Inlet	No	No	No	No	No	No
68	Storm Sewer Inlet	No	No	No	No	No	No
69	Storm Sewer Inlet	No	No	No	No	No	No
70	Storm Sewer Inlet						
71	Storm Sewer Inlet						
72	Storm Sewer Inlet	NA	Yes	No	NA	No	No
73	Storm Sewer Headwall Point						
74	Storm Sewer Headwall Point						
75	Storm Sewer Headwall Point	Yes	Yes	No	No	No	No
76	Storm Sewer Headwall Point	No	Yes	No	No	No	No
77	Storm Sewer Headwall Point						
78	Storm Sewer Headwall Point						
79	Storm Sewer Headwall Point						
80	Storm Sewer Headwall Point						
81	Storm Sewer Headwall Point						
82	Storm Sewer Headwall Point	Yes	Yes	No	No	No	No
83	Storm Sewer Headwall Point						
84	Storm Sewer Headwall Point						
85	Storm Sewer Headwall Point	No	No	No	No	No	No
86	Storm Sewer Headwall Point						
87	Storm Sewer Headwall Point						
88	Storm Sewer Headwall Point						
89	Storm Sewer Headwall Point						
90	Storm Sewer Headwall Point						
91	Storm Sewer Headwall Point						
92	Storm Sewer Headwall Point						
93	Storm Sewer Headwall Point						
94	Storm Sewer Headwall Point						
95	Storm Sewer Headwall Point						
96	Storm Sewer Headwall Point						
97	Storm Sewer Headwall Point						
98	Storm Sewer Headwall Point						
99	Storm Sewer Headwall Point						
100	Storm Sewer Inlet		Yes	No	No	No	No
101	Storm Sewer Inlet	NA	Yes	No	NA	No	No
102	Storm Sewer Inlet						
103	Storm Sewer Inlet	No	No	No	No	No	No
104	Storm Sewer Inlet	No	No	No	No	No	No
105	Storm Sewer Inlet	No	Yes	No	No	No	No
106	Storm Sewer Inlet	NA	No	No	NA	No	No
107	Storm Sewer Inlet						
108	Storm Sewer Inlet						
109	Storm Sewer Headwall Point						
110	Storm Sewer Headwall Point	Yes		No	NA	NA	No
111	Storm Sewer Headwall Point						
112	Storm Sewer Headwall Point						
113	Storm Sewer Headwall Point						
114	Storm Sewer Headwall Point						
115	Storm Sewer Headwall Point						
116	Storm Sewer Headwall Point						
117	Storm Sewer Headwall Point						
118	Storm Sewer Headwall Point						
119	Storm Sewer Headwall Point						
120	Storm Sewer Headwall Point						
121	Storm Sewer Headwall Point	Yes	Yes	No	Yes	Yes	No
122	Storm Sewer Headwall Point						
123	Storm Sewer Headwall Point						

## Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

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:

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<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>P2-5 Vehicle Washing Limitation</u>  1. Maintain copy of current policy.	<b>COMPLETED</b>  A copy of the current municipal vehicle washing policy that limits washing to approved vehicle wash racks is maintained in the 460 CES/CEIE Environmental Stormwater library.	No

## Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<u>P2-6 Post-Construction Stormwater Control Measure Maintenance</u>  1. Document post-construction stormwater control maintenance requirements during annual post-construction stormwater control inspection.	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023. P2-6 is reported in the 1 November – 31 December 2023 annual report iteration.	No
2. Initiate a Work Order using the appropriate work request system/database for any post-construction stormwater control maintenance activity that requires additional equipment, manpower, or resources to accomplish.	<b>COMPLETED</b>  Completed during Permit Year 1 of the new MS4 permit issued by EPA and effective as of 1 November 2023.	No

## Pollution Prevention/Good Housekeeping for Municipal Operations (continued)

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:

<b>Measurable Goal(s)</b> Including dates and numeric measures, as previously submitted	<b>Status:</b> Including dates and numeric measures	<b>Changes proposed to BMP and/or Measurable Goal? (Yes/No).</b> If yes, provide information on proposed changes and rationale.
<p><u>P2-7 Consolidate Wash Rack Evaluation</u></p> <p>1. Document completion of the consolidated wash area evaluation including methodology and recommendations. If a consolidated wash area is recommended, a Form 1391 will be generated (Year 3).</p>	<p><b>PARTIALLY COMPLETED</b></p> <p>Investigations and general evaluations of requirements were initiated in late fall of 2015. The evaluation was finalized in May 2016. The evaluation covered existing wash racks, large equipment washing requirements, and potential locations. There is general agreement that a consolidated wash rack is needed. However, programming this project has been and continues to remain a lower priority than competing projects. A Work Order was drafted and submitted to the Buckley SFB programming office on 24 February 2023. The project will be programmed in accordance with base priorities.</p>	<p>No</p>

**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:

All information used to implement the program has been provided under the Measurable Goals.

### **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.

<b>Measurable Goal</b>	<b>Results of information collected and analyzed that must be reported for this item</b>
N/A	N/A

\*Data collected to audit the implementation status of a program element does not need to be reported in the annual report unless required by an established measurable goal or as a requirement or result of an inspection or enforcement action. For example, data such as street miles swept, visitors at an information booth, or visits to a web site do not need to be included in the annual report unless directly related to a measurable goal or committed to be reported and/or analyzed in a program description.

**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

**G. Proposed Changes to the Stormwater Management Program.**

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

Buckley SFB received a new Municipal Separate Storm Sewer System (MS4) Permit on 20 September 2023. In response to the new permit which is active as of 1 November 2023 and expires on 31 October 2028, 460 CES/CEIE will adapt the Stormwater Management Program during Permit Year 1.

## 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."

NA

## 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."

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Signature of Permittee (legally responsible person) \*\*

Date Signed

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MATTHEW C. RODGERS, GS-13, DAF

Chief, Environmental Element

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).