

Notes: All items highlighted in red are to be updated by the selected contractor after contract award. The contractor will also need to submit the Notice of Intent (NOI) for compliance with the 2026 Construction General Permit (CGP) Permit AKR100000.

Storm Water Pollution Prevention Plan For

Gambell Street Overhead (OH) to Underground (UG)
Primary System Improvement
CEA WO P1900043
Anchorage, Alaska 99501

Operator(s)

Chugach Electric Association, Inc.
5601 Electron Dr
Anchorage, Alaska 99518
Office (907) 762-4609

SWPPP Contact(s)

Contractor TBD
Company
Name
City, State, Zip Code
Telephone
Email Address

SWPPP Preparation Date

4/13/2026

Estimated Project Dates

<u>Start of Construction</u>	<u>Completion of Construction</u>
5/9/2026	8/13/2027

APDES Project or Permit Authorization Number:
TBD

OPERATOR PLAN AUTHORIZATION/CERTIFICATION/DELEGATION

(To be signed by Responsible Corporate Officer)

I state that based on my review this SWPPP meets the minimum requirements of the Construction General Permit and that the **Contractor TBD** has day-to-day operational control of the project site. **Contractor TBD** is responsible for the maintenance and implementation of the SWPPP including inspections, documentation, and application of the Best Management Practices at the site. **Contractor TBD** will notify all subcontractors of the requirement of this SWPPP. **Chugach Electric Association, Inc. (CEA)** has operational control over the project specifications, including the ability to make changes to the project specifications.

I hereby designate **TBA** as my authorized representative. This designee is responsible for the overall operations of the site and will be responsible for the implementation of the Storm Water Pollution Prevention Plan, compliance with the Construction General Permit, selecting and implementing additional Best Management Practices as conditions warrant, and signing all inspection reports required.

I certify under penalty of law that this document and all attachments were prepared under the direction of **TBD** in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 a fine and imprisonment for knowing violations.

Contractor TBD

Signature

Date

Printed Name

Title

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Storm Water Pollution Prevention Plan (SWPPP)

Gambell Street OH to UG P1900043

4/13/2026

1.0 PERMITTEE (5.3.1)

1.1 Operator(s)/Contractor(s)

Operator Information			
Organization: Contractor TBD.		Name:	Title:
Phone:	Fax (optional):	Email:	
Mailing Address:	Street (PO Box):		
	City:	State:	Zip:
Area of Control	Day-to-day operational control of those activities at a site which are necessary to ensure compliance with a SWPPP or other permit conditions.		

Owner/Operator Information			
Organization: Chugach Electric Association, Inc.		Name: Jake Moe	Title: Distribution Design Manager
Phone: (907) 762-4720	Fax (optional):	Email: Jake_Moe@chugachelectric.com	
Mailing Address:	Street (PO Box): 5601 Electron Dr		
	City: Anchorage	State: Alaska	Zip: 99518
Area of Control	Operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications.		

1.2 Subcontractors

Subcontractor Information			
Organization: Midnight Sun Environmental, LLC		Name: Kelly Kennedy	Title: Project Scientist
Phone: (907) 344-3244	Fax (optional):	Email: Kelly@midnightsunenv.com	
Mailing Address:	Street (PO Box): 560 E 34th Ave, Ste 102		
	City: Anchorage	State: Alaska	Zip: 99503
Area of Control	Midnight Sun Environmental, LLC developed the SWPPP for the project.		

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Subcontractor Information			
Organization:	Name:	Title:	
Phone:	Fax (optional):	Email:	
Mailing Address:	Street (PO Box):		
	City:	State:	Zip:
Area of Control			

Subcontractor Information			
Organization:	Name:	Title:	
Phone:	Fax (optional):	Email:	
Mailing Address:	Street (PO Box):		
	City:	State:	Zip:
Area of Control			

2.0 STORM WATER CONTACTS (5.3.2)

<u>Qualified Personnel</u>	<u>Responsibility</u>
<p>Project Manager Chugach Electric Association, Inc. Jake Moe 1200 E 1st Ave, Anchorage, AK 99501 907-762-4720 Jake_Moe@chugachelectric.com</p>	<p>Authority to stop and/or modify construction activities as necessary to comply with the SWPPP and the terms and conditions of the permit.</p>
<p>Storm Water Lead Contractor TBD Company Name City, State, Zip Code Telephone # Email</p>	<p>The Contractor’s duly authorized representative is responsible and in charge of the day-to-day work. Authority to stop and/or modify construction activities as necessary to comply with the SWPPP and the terms and conditions of the permit.</p>
<p>SWPPP Preparer Midnight Sun Environmental, LLC Kelly Kennedy 560 E 34th Ave, Ste 102 Anchorage, Alaska 99503 907-344-3244 Kelly@midnightsunenv.com AK-CESCL# MSE-24-0001 EXP: 3/14/2027</p>	<p>Possess the skills to assess conditions at the construction site that could impact storm water quality. Familiar with Part 5 as a means to implement the permit.</p>
<p>Storm Water Inspector Contractor TBD Company Name City, State, Zip Code Telephone # Email</p>	<p>Assess conditions at the construction site that could impact storm water quality. Assess the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharge, and familiar with Part 6 as a means to ensure compliance with the permit.</p>

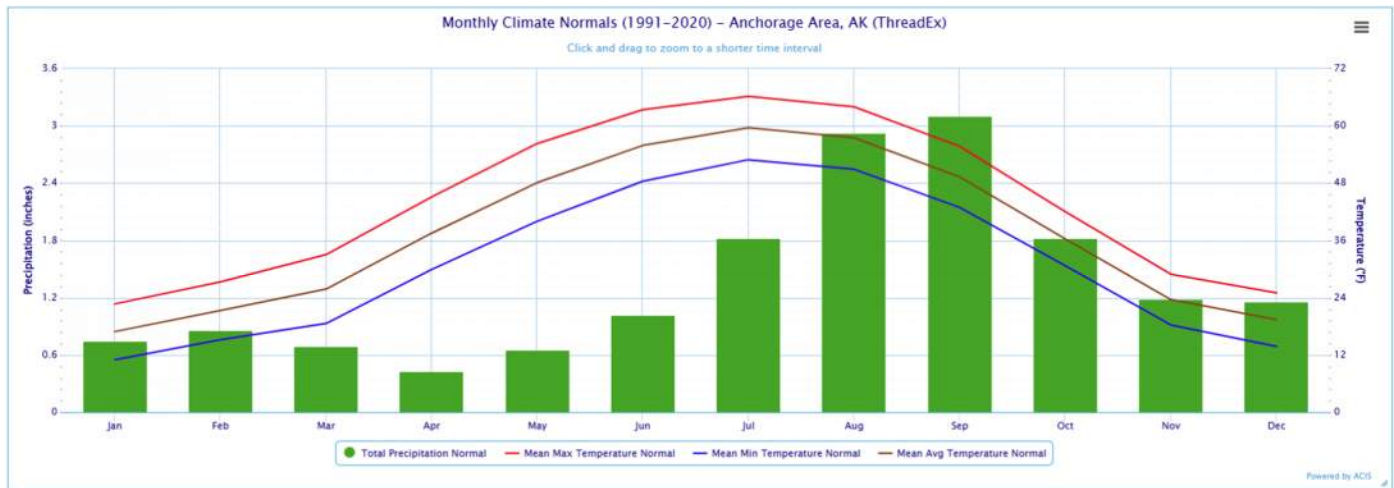
3.0 PROJECT INFORMATION (5.3.3)

3.1 Project Information

Project Name: Gambell Street OH to UG			
Location Address:	Street: Gambell Street	Borough or similar government subdivision: Municipality of Anchorage	
	City: Anchorage	State: Alaska	Zip: 99501
	Latitude (decimal degree, 5 places): 61.219784°	Longitude (decimal degree, 5 places): -149.872293 °	
Determined By: <input type="checkbox"/> GPS <input type="checkbox"/> Web Map: <input type="checkbox"/> USGS Topo Map, Scale: <input checked="" type="checkbox"/> Other: Google Earth			

3.2 Project Site Specific Conditions (5.3.3)

Mean annual precipitation based on nearest weather stations (inches): The xmACIS program reports the following average annual precipitation level for Anchorage, Alaska, Period of Record: 1991 to 2020 = 16.42 inches average total precipitation. WRCC: <https://xmacis.rcc-acis.org/>



Month	Total Precipitation Normal (inches)	Mean Max Temperature Normal (°F)	Mean Min Temperature Normal (°F)	Mean Avg Temperature Normal (°F)
January	0.75	22.7	11.0	16.9
February	0.86	27.3	15.2	21.3
March	0.69	33.0	18.6	25.8
April	0.43	45.1	29.9	37.5
May	0.65	56.3	40.0	48.1
June	1.02	63.4	48.4	55.9
July	1.82	66.2	52.9	59.6
August	2.93	64.0	50.9	57.5
September	3.10	55.7	42.9	49.3
October	1.82	42.0	30.7	36.3
November	1.19	28.9	18.3	23.6
December	1.16	25.0	13.8	19.4
Annual	16.42	44.1	31.1	37.6

Soil Type(s) and Slopes (describe soil type(s) and current slopes; note any changes due to grading or fill activities): The slope gradient is between 0 to 5%. The work area consists mainly of Cryorthents and Urban land, (85.8%) composed of glacial sediments and very sandy gravelly loam. This soil is excessively drained and belongs to a low runoff class. The rest of the soil (8.5%) consists of Kashwitna-Kichatna complex.

Landscape Topography: The project is located along a high traffic-industrial area that is developed with businesses, paved roads, and sidewalks. It is also located in proximity to Anchorage Memorial Cemetery. The area is very flat and has an elevation of approximately 150 ft.

Drainage Patterns (*describe current drainage patterns and note any changes due to grading or fill activities*): The project area encompasses multiple drainage points along Gambell St, directing runoff into storm drains, eventually connecting to the Cook Inlet. The project is not expected to change or redirect the existing drainage pattern. The Watershed Management Drainage Map is presented in Appendix A.

Public Water System Drinking Water Protection (CGP Part 5.3.5.15): MSE reviewed ADEC’s Drinking Water Protection Areas map and confirmed there are no public water systems (PWS) intersecting the project area or surrounding properties (Appendix A).

Approximate Growing Season: The approximate median growing season for the Cook Inlet ecoregion is May 29 to September 27 (USACE 2007 Wetlands Alaska Regional Supplement).

The XMACIS reports the following growing season for the project area:

Frost/Freeze Summary for Anchorage Area, AK (ThreadEx)

Each section contains date and year of occurrence, value on that date.

Year	Last	Value	First	Value	Season Length
2021	05-05 (2021)	31	09-22 (2021)	28	139
2022	05-11 (2022)	32	10-10 (2022)	31	151
2023	05-05 (2023)	31	09-19 (2023)	32	136
2024	05-07 (2024)	32	10-02 (2024)	31	147
2025	04-20 (2025)	30	10-19 (2025)	29	181
Minimum	04-20 (2025)		09-19 (2023)		136
Mean	05-03		10-02		151
Maximum	05-11 (2022)		10-19 (2025)		181

<https://xmacis.rcc-acis.org/>

Type of Existing Vegetation: The project is located in a developed commercial area with landscaped grass, ornamental trees, and shrubs. Trees and shrubs include cottonwood, alders, birch, chokecherry, and maple trees.

Historic site contamination evident from existing site features and known past usage of the site: The Alaska Department of Environmental Conservation (ADEC) - Contaminated Sites Database was searched by MSE in April 2026 for ADEC-classified contaminated sites within a 0.25-mile of the project area. MSE found 33 Cleanup Complete sites, 9 Active Contamination sites, and 6 Cleanup Complete with Institutional Control sites, and one groundwater plume within a 0.25-mile radius distance from the project area. The project will not directly intersect with any ADEC Contaminated sites. This map can be found in Appendix A of this SWPPP.

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Status	Site Name	Site Information	Distance Away from Project Area
Active	ALASKA REAL ESTATE PARKING LOT	This site is contaminated with PCE above ADEC soil/groundwater cleanup levels and above screening levels for vapor intrusion risks. The PCE plume extends northeasterly across 3rd Avenue and down the bluff towards the Alaska Railroad Corporation's Anchorage Terminal Reserve and Ship Creek. Involved parcel addresses include: 717(Lot 8A), 725 (Lot 10), and 735 (Lot 12) East 4th Avenue.	100 ft from the corner of E 4 th Ave and Gambell St.
Active with groundwater plume	CHEVRON - 2555	Gasoline soil and groundwater contamination was found during the demolition of the service station and the removal of the USTs in 1990, some heavier contamination and solvent contamination were also found, probably associated with old former used oil and fuel oil tanks used at the site in the past.	50 ft from the corner of E 9 th Ave and Gambell St.
Active	Texaco #60 Eastchester (former)	Gasoline, diesel, and heating oil tanks were removed in 1989. Soil and ground water contamination were found. Contamination extended off property.	85 ft from the corner of E 11 th Ave and Gambell St.
Active	MOA Sullivan Arena Storm Drain	Contamination that was discovered during a June 2021 construction project.	800 ft from the corner of E 15 th Ave and Gambell St
Active	Texaco #90 901 East 15th	In 1990 contamination was found during upgrade of gasoline tank system. Additional contamination found at used oil buried drum area.	800 ft from the corner of E 15 th Ave and Gambell St
Active	Scottys Chevron	On July 14 through July 15, 1998, two 1000 gallon gasoline tanks and two 5000 gallon gasoline tanks, dispensers, and associated piping were removed. Up to 110 mg/kg lead, 2.3 mg/kg benzene, and 4200 mg/kg GRO left in soils at the site.	1000 ft from the corner of E 13 th Ave and Gambell St
Active	Snow White Cleaners	On June 18, 1992A total of five soil borings were advanced within the Snow White Cleaners building to a total depth of 16.5 feet below ground surface to be analyzed for contaminants of concern (COC). The PCE is potentially related to a broken sewer connection coming from Alaska Cleaners.	1,320 ft from the corner of E 15 th Ave and Gambell St

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4/13/2026

Active	Municipal Light & Power - Power Plant 1	ML&P's Plant Number 1 on First Avenue in Anchorage was the site of a 250,000 to 400,000 gallon diesel above ground storage tank spill during the 1964 earthquake. Soils and groundwater were contaminated with diesel fuel.	1,320 ft from the corner of E 3 rd Ave and Gambell St
Active	MOA - Brother Francis Shelter Property	In the 1970's two of the tanks failed and released an unknown quantity of used oil. The soil samples documented TPH, DRO, GRO above cleanup levels.	1,320 ft from the corner of E 3 rd Ave and Gambell St
Cleanup Complete – Institutional Controls	Quality Transmission (LUST)	Primary contaminants are PCBs and diesel fuel. In 1997, the 3,000-gallon UST 3 was removed. Stained surface soil was visible around the building's south doorway and penetrated to a depth of at least two feet. Analytical results demonstrated that this UST met 18 AAC 75.341 Method 2 cleanup levels.	80 ft from the corner of E 12 th Ave and Gambell St.
Cleanup Complete – Institutional Controls	Alaska Housing Authority - Willow Park Housing	Soil & groundwater contamination present in removal of 5 underground storage tanks. Contamination from an upgradient former Chevron station (event ID 164) extends under this site.	550 ft from the corner of E 9 th Ave and Gambell St.
Cleanup Complete – Institutional Controls	Former Williams Express Store #5009	Assessment of off-site contamination migration is still in progress as of 2008. The groundwater flows towards the west to southwest. Site remediation has included UST and contaminated soil removal. Further site remediation plans have been generalized.	100 ft from the corner of E 12 th Ave and Gambell St.
Cleanup Complete – Institutional Controls	LeFever Property - 4th & Ingra Street	3 parties paid for removal of tanks & tank monitoring report: 1) Trustees of the Anchorage Fracture & Orthopedic Clinic Pension & Profit Sharing Trusts, 2) the Ingra St. Investments partners, & 3) Darrell & Juanita LeFever.	800 ft from the corner of E 4 th Ave and Gambell St.
Cleanup Complete – Institutional Controls	Gambell Street Cell Tower	In September, 2012, during trenching for utilities at the Gambell Street cell tower site, broken batteries and debris were discovered in soil from 1 to 5 feet below ground surface. Follow-up sampling found lead in soil up to 14,000 mg/kg and TCLP lead above the RCRA target level in several locations.	400 ft from the corner of E 15 th Ave and Gambell St.
Cleanup Complete – Institutional Controls	Alaska Electroplating & Bumper Rpr.	Chemicals and metals used in electroplating discharged to municipal sewer system in form of tainted rinse and wash water. No further action needed for EPA.	600 ft from the corner of E 15 th Ave and Gambell St.

4.0 NATURE OF CONSTRUCTION ACTIVITY (5.3.4)

4.1 Scope of Work

The scope of the projects includes the removal of poles, circuit conductors, and overhead line equipment along a commercial and residential corridor. This will increase the transfer capacity of feeders. The existing 2/0 CU overhead distribution lines will be replaced with new underground 15kV 750 cables installed in conduit, with below-ground splicing vaults and pads.

4.2 Project Function (5.3.4.1)

The project consists of relocating approximately 1.2 miles of existing overhead distribution and sub-transmission circuits underground, extending from north of Gambell Street by E 3rd Ave continuing south to E 15th Ave. This work is being conducted in compliance with underground requirements within the Anchorage Bowl.

Support Activities

Support activities for this project are:

<u>Support Activity</u>	<u>Location</u>	<u>Dedicated</u>	
		<u>Yes</u>	<u>No</u>
Concrete Batch Plant	Not applicable, if needed concrete will be hauled onsite.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Asphalt Batch Plant	Not applicable, if needed asphalt will be hauled onsite.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Equipment Staging Yards	TBD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Material Storage Areas	TBD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Excavated Material Disposal Areas	Excavated material is not expected, if needed, all excess material is expected to be hauled off site.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Borrow Areas	Not applicable.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

4.3 Sequence and Timing of Soil-disturbing Activities (5.3.4.2)

Soil disturbing activities will include the following activities:

- Mobilization and civil site preparation
- Installation of BMPs
- Mobilize bore crews
- Welding and staging conduit
- Boring and pulling pipe
- Civil work, trench backfill, and equipment installation

This is not an all-inclusive list of construction activities at the sites, but it includes major aspects of the anticipated project. The project is scheduled to start on 5/09/26 with a 100% completion date of 8/13/2027. A contractor provided detailed project schedule will need to be attached to Appendix C.

4.4 Size of property and total area expected to be disturbed (5.3.4.3)

The following are estimates of the construction site:

Total Project Area:.....	8.1	acres
Construction-site area to be disturbed:	1.3	acres
Percentage impervious area BEFORE construction:.....	85	%
Runoff coefficient BEFORE construction:	0.50	
Percentage impervious area AFTER construction:	85	%
Runoff coefficient AFTER construction:.....	0.50	

4.5 Identification of All Potential Pollutant Sources (5.3.4.5)

Potential sources of sediment to storm water runoff:

Construction activities performed during this project that may be potential sources of sediment to storm water runoff are as follows:

- Sediment and dust from equipment at the project site
- Sediment transport from wind and rainfall
- Runoff from disturbed surfaces

Potential pollutants and sources, other than sediment, to storm water runoff:

Construction materials and activities performed during the construction process that may contribute pollutants, other than sediments, to storm water runoff are as follows:

Trade Name Material	Storm Water Pollutants	Location
Vehicle and equipment fluids including oil, grease, fuel, solvents, and coolants;	Petroleum, volatile organic compounds, benzene, etc;	Project show-up and laydown areas and along the project corridor.
General site litter and waste;	Various;	Project show-up and other work areas along the project corridor.
Sanitary waste;	Fecal coliform bacteria, portable toilet sanitizer, etc;	Staging area.
BMP materials;	Various;	Along the project corridor.
Survey marking paint;	Various solvents, unless water-based;	Along the project corridor.

5.0 SITE MAPS (5.3.5)

Include a general location map in Appendix A of this SWPPP. (5.3.4.4)

A general location map is included in Appendix A of this SWPPP.

Include site maps in Appendix A of this SWPPP. (5.3.5)

Site Maps are included in Appendix A of this SWPPP.

6.0 DISCHARGES

6.1 Locations of Other Industrial Storm Water Discharges (5.3.8)

There are no asphalt plants, concrete plants, material sites, or off-site disposal sites dedicated to this project. All materials will be procured from licensed commercial businesses. All off-site disposal sites will be licensed commercial facilities or private property with their SWPPP plans.

6.2 Allowable Non-Storm Water Discharges (1.4.3; 4.3.7; 5.3.9)

The following are non-storm water discharges authorized by the 2026 Alaska Construction General Permit (ACGP):

- Water used to control dust to minimize tracking and dust generation.
- Potable water including uncontaminated water line flushing.
- Construction dewatering waters that are treated by an appropriate control measure in compliance with part 4.4.2 of the CGP including filtration designed to remove sediment.

7.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO TOTAL MAXIMUM DAILY LOADS (3.2, 5.6)

7.1 Identify Receiving Waters (5.3.3.3)

Description of receiving waters: All storm water discharge is expected to flow into various storm drains located throughout Gambell Street and eventually towards the Cook Inlet. The project is not expected to change or redirect the existing drainage pattern. Appropriate BMPs will be utilized to protect the storm drains.

Anadromous Waters Catalog: There are no AWC streams located within the project area.

Description of storm sewer and/or drainage systems: There are numerous storm drains on or near the project area. Drainage directions and receiving waters for the project are shown in Appendix A.

7.2 Identify TMDLs (5.6.1)

Is an EPA-established or approved TMDL published for the receiving water(s) listed in Section 7.1? Yes No.

TMDL: N/A

Summary of consultation with state or federal TMDL authorities (5.6.2): N/A

Measures taken to ensure compliance with TMDL (5.6.3): N/A

8.0 DOCUMENTATION OF PERMIT ELIGIBILITY RELATED TO ENDANGERED SPECIES (3.3, 5.7)

8.1 Information on Endangered or Threatened Species or Critical Habitat (5.7.1)

Are endangered or threatened species and critical habitats on or near the project area? Yes No.

Describe how this determination was made: US Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) Regulatory Review document and Resources List (Appendix D).

Will species or habitat be adversely affected by storm water discharge? Yes No.

According to the USFWS IPaC Regulatory Review document and Resources List (Appendix D), there are no listed species or critical habitats expected to occur at this location. Ground disturbance for this project will be small and BMPs will be implemented such that any discharges from storm water will be mitigated and reduced to the maximum extent practicable.

Include any agency correspondence in the SWPPP (5.7.4). N/A

Provide summary of necessary measures (5.7.5): No necessary measures are required.

9.0 APPLICABLE FEDERAL, STATE, TRIBAL, OR LOCAL REQUIREMENTS (4.15)

CEA has contracted **Contractor TBD** to complete the Gambell Street undergrounding project. **Contractor TBD** will carry out all activities in compliance with federal, state, local, and private property environmental regulations and permit requirements. This SWPPP complies with the following permits and regulations which are also located in Appendix F.

- MOA Municipal Separate Storm Sewer System (MS4).
- MOA Watershed Management Services Utility Permit
- 2026 Construction General Permit, Alaska Department of Environmental Conservation.

Control Measures

10.0 CONTROL MEASURES/BEST MANAGEMENT PRACTICES (4.0; 5.3.6)

The BMPs listed in this section were selected based on the 2026 CGP, the natural environment of the project, and a list of potential options for the project. The BMPs listed in this SWPPP and used on the project site shall be modified as needed based on project conditions.

BMPs found to be damaged or inadequate will be repaired or replaced as soon as possible and before the next rainfall event. Specific maintenance parameters are outlined in the following sections and are provided in the BMP details (Appendix B). Temporary BMPs shall not be removed until the area of the disturbance they control has reached final stabilization or temporary stabilization capable of preventing erosion and introduction of fines into storm water runoff.

10.1 Minimize Amount of Soil Exposed During Construction Activity (4.2.2)

The area that will be disturbed by the project will be limited to only the necessary to perform the work. The project work limit is shown on the project drawings (Appendix A) and will be flagged in the field. All other areas will be left undisturbed.

<i>BMP Description: Scheduling SS-1</i>
<i>Source: Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual, May 2017.</i>
<i>Installation Schedule:</i> Project scheduling will occur to minimize land disturbance for all project areas.
<i>Maintenance and Inspection:</i> No maintenance is required. Project schedule changes that affect sediment control measures will be recorded in the SWPPP.
<i>Responsible Staff:</i> SWPPP Lead/Inspector as specified in Section 2.0

10.1.1 Delineation of Site

The permittee will generally delineate the location of all areas where soil disturbing construction activities will occur and specific areas that will be left undisturbed such as trees, boundaries of sensitive areas, or buffers established under Part 4.2.1 of the 2026 CGP permit. Marking project limits are used to prevent equipment and construction related activities from impacting areas outside the project boundaries. If any, project limits/clearing limits will be marked with flagging/surveyor’s stakes or fencing. Permit boundaries will be marked with flagging/surveyor stakes.

BMP Description: Site Delineation BMP 54
Source: DOT&PF Alaska SWPPP Guide. October 2016
Installation Schedule: Prior to the start of soil disturbing activities in work area.
Maintenance and Inspection: Inspect at the frequency described in Section 11.1 of this SWPPP and maintain as indicated by the inspector.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

10.2 Maintain Natural Buffer Areas (4.2.3)

Are stream crossings or waters of the U.S. located within or immediately adjacent to the property? Yes No.

Natural vegetation must be preserved in all areas where no construction is planned, or where project activities will occur at a later date.

BMP Description: Preservation of Existing Vegetation AK-1
Source: DOT&PF Alaska SWPPP Guide 2011
Installation Schedule: Undisturbed areas or strip of natural vegetation will provide a living filter to reduce soil erosion and runoff velocities.
Maintenance and Inspection: Keep heavy equipment off of these slopes to preserve vegetation. Replace or repair fencing or flagging as necessary. Inspect as per requirements of the ACGP. Check for damage by equipment and vehicles. Ensure water flowing through the area I not forming ponds, rills, or gullies.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

BMP Description: Fiber/Compost Rolls AK-10
Source: DOT&PF Alaska SWPPP Guide 2016
Installation Schedule: Fiber rolls will be placed along trenching activities to delineate the work area and control sediment. Fiber rolls may be used as a check dam. Fiber rolls are installed prior to soil disturbance.
Maintenance and Inspection: Fiber rolls or compost sock will be installed prior to construction activities. Fiber rolls will be placed downslope of ground-disturbing activities where a vegetative buffer does not exist. Equipment cannot drive over the installed fiber rolls; if damaged, the sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface. Inspect as per requirements of the ACGP. Specific locations are identified in Appendix A, BMP Maps.

Responsible Staff:

SWPPP Lead/Inspector as specified in Section 2.0

10.3 Control Storm Water Discharges and Flow Rates (4.2.5)

If necessary, compost sock or straw wattles will be used to facilitate decreasing storm water flow rates and discharge in areas where the vegetative buffer is insufficient. Should compost socks or straw wattles prove inadequate for dissipating storm water flows, earth dikes and drainage swales may be implemented to divert Storm water runoff in an effort to decrease velocity.

BMP Description: Vegetative Buffer Strip AK-38

Source: DOT&PF Alaska SWPPP Guide 2016

Installation Schedule:

Undisturbed area of vegetation to provide a living filter, reducing soil erosion and runoff velocities.

Maintenance and Inspection:

Keep heavy equipment off of these slopes to preserve vegetation. Replace or repair fencing or flagging as necessary. Check for damage by equipment and vehicles, and for sediment build up. Ensure water flowing through the area is not forming ponds, rills, or gullies. Inspect per requirements of the CGP.

Responsible Staff:

SWPPP Lead/Inspector as specified in Section 2.0

BMP Description: Fiber/Compost Rolls AK-10

Source: DOT&PF Alaska SWPPP Guide 2016

Installation Schedule:

Fiber rolls will be placed along trenching activities to delineate the work area and control sediment. Fiber rolls may be used as a check dam. Fiber rolls are installed prior to soil disturbance.

Maintenance and Inspection:

Fiber rolls or compost sock will be installed prior to construction activities. Fiber rolls will be placed downslope of ground-disturbing activities where a vegetative buffer does not exist. Equipment cannot drive over the installed fiber rolls; if damaged, the sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface. Inspect as per requirements of the ACGP. Specific locations are identified in Appendix A, BMP Maps.

Responsible Staff:

SWPPP Lead/Inspector as specified in Section 2.0

10.3.1 Protect Steep Slopes (4.2.6)

Will steep slopes be present at the site during construction? Yes No.

No steep slopes are present at this construction site. However, if necessary, compost sock or straw wattles will be used to decrease storm water flow rates and discharge if necessary.

BMP Description: Fiber Rolls BMP 10a & 10b
Source: DOT&PF Alaska SWPPP Guide. October 2016
Installation Schedule: Fiber rolls can be placed along trenching activities to delineate the work area and control sediment. Fiber Rolls may be used as a check dam to control flow rates. Fiber rolls are installed prior to soil disturbance.
Maintenance and Inspection: Fiber rolls or compost sock would be installed prior to construction activities. Fiber rolls will be placed downslope of ground-disturbing activities where a vegetative buffer does not exist. Equipment cannot drive over the installed fiber rolls; if damaged, the sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface. Inspect as per requirements of the CGP. Specific locations are identified in Appendix A, BMP Maps.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

10.4 Protect Permafrost Where Applicable (4.2.7)

Is permafrost present on site? Yes No

10.5 Storm Water Inlet Protection Measures (4.3.1)

Storm Drain inlet protection will be installed at all necessary outlets throughout the project area.

BMP Description: Inlet Protection, AK-25-29
Source: DOT&PF Alaska SWPPP Guide 2016
Installation Schedule: Catch basin insert: the filter is inserted just below the grating; manufacturers have different design details. Sandbag barrier- place the bags in a horseshoe shape around the curb inlet or in sets of two or more upstream in the flow line to result in ponding (bag must be lower than the top of the curb).
Maintenance and Inspection: For inserts: carefully remove the insert to avoid spilling sediment, clean away from any drainages and replace it. For above-ground structures, remove sediment and restore structure to its original dimensions when sediment has accumulated to ½ the design depth.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

10.6 Water Body Protection Measures (4.3.2)

Storm drain inlet protection will be installed at all necessary storm drains.

BMP Description: Fiber/Compost Rolls AK-10
Source: DOT&PF Alaska SWPPP Guide 2016
Installation Schedule: Fiber rolls will be placed along trenching activities to delineate the work area and control sediment. Fiber rolls may be used as a check dam. Fiber rolls are installed prior to soil disturbance.
Maintenance and Inspection: Fiber rolls or compost sock will be installed prior to construction activities. Fiber rolls will be placed downslope of ground-disturbing activities where a vegetative buffer does not exist. Equipment cannot drive over the installed fiber rolls; if damaged, the sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface. Inspect as per requirements of the ACGP. Specific locations are identified in Appendix A, BMP Maps.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

10.7 Down-Slope Sediment Controls (4.3.3)

Whenever slopes are disturbed on this project, compost socks or straw wattles will be placed down-slope to prevent any sediment from leaving the project area.

BMP Description: Fiber/Compost Rolls AK-10
Source: DOT&PF Alaska SWPPP Guide 2016
Installation Schedule: Fiber rolls will be placed along trenching activities to delineate the work area and control sediment. Fiber rolls may be used as a check dam. Fiber rolls are installed prior to soil disturbance.
Maintenance and Inspection: Fiber rolls or compost sock will be installed prior to construction activities. Fiber rolls will be placed downslope of ground-disturbing activities where a vegetative buffer does not exist. Equipment cannot drive over the installed fiber rolls; if damaged, the sections must be replaced. Remove sediment accumulated upslope of the roll when it reaches one-half the distance between the top of the fiber roll and the ground surface. Inspect as per requirements of the ACGP.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

10.8 Stabilized Construction Vehicle Access and Exit Points (4.3.4)

Project access is from an existing road and along the utility right-of-way. No stabilized construction vehicle access or exit is required. If the conditions of the road become muddy, or if vehicles and equipment track sediment off the project site, a stabilized construction entrance or exit in the form of a rumble mat or strips will be utilized.

BMP Description: Vehicle Tracking Entrance/Exit AKDOT-23 & 24
Source: DOT&PF Alaska SWPPP Guide 2016
Installation Schedule: A vehicle tracking entrance/exit provides a stabilized gravel area or pad underlined with a geotextile and located where traffic enters or exits the construction site.

<p>Maintenance and Inspection: Maintain each entrance in a condition that will prevent mud or sediment on the public rights-of-way. Replace gravel material when surface voids are visible. Inspect as per requirements of the ACGP. Specific locations are identified in Appendix A, BMP Maps.</p>
<p>Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0</p>

10.9 Dust Generation and Track-Out from Vehicles (4.3.5 and 4.3.6)

Dust is not anticipated for this project. Should dust generation and track out from vehicles become a threat to storm water quality, sweeping will be utilized to remove loose sediments from paved surfaces. If necessary, Wind Erosion Control BMP will be used to prevent or alleviate erosion by the wind.

<p>BMP Description: Street Sweeping AK-55</p>
<p>Source: DOT&PF Alaska SWPPP Guide 2016</p>
<p>Installation Schedule: Sweep and vacuum as needed to minimize dust and track out.</p>
<p>Maintenance and Inspection: Inspect ingress /egress access points daily and during routine SWPPP inspections.</p>
<p>Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0.</p>

<p>BMP Description: Wind Erosion Control WE-1</p>
<p>BMP Manual/Publication: Caltrans, Storm Water Quality Handbooks, Construction Site Best Management Practices (BMP) Manual, May 2017</p>
<p>Installation Schedule: Apply water or other dust palliatives as necessary to prevent or alleviate erosion by the forces of wind.</p>
<p>Maintenance and Inspection: Check areas where wind erosion controls have been implemented daily for erosion and visible dust.</p>
<p>Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0</p>

10.10 Soil Management (4.3.7)

Will soil stockpiles be at the site during construction? Yes No.

Soil stockpiles are not anticipated, however, small piles from the excavation during installation may be present for short durations. Stabilization beyond good housekeeping measures should be minimal. If necessary, the plastic covering will be used to cover stockpiles if sediment from soil piles is expected to migrate.

<p>BMP Description: Geotextiles, Mats, Plastic Covers, and Erosion Control Blanket SS-7</p>
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Source: Best Management Practices Manual. Idaho, January 2014
Installation Schedule: Stabilize stockpiles from erosion or if retained more than 14 calendar days using plastic covers or an equivalent temporary stabilization measure.
Maintenance and Inspection: Repair, re-anchor, or replace as needed. Reposition or add covering where gaps have been formed due to wind or other factors. Inspect as per requirements of the ACGP.
Responsible Staff: SWPPP Lead/Inspector as specified in Section 2.0

10.11 Authorized Non-Storm Water Discharges (4.3.8)

The following are non-storm water discharges authorized by the 2026 Alaska Construction General Permit (ACGP):

- Water used to control dust to minimize tracking and dust generation;
- Potable water including uncontaminated water line flushing;
- Construction dewatering waters that are treated by an appropriate control measure in compliance with part 4.4.2 of the CGP including filtration designed to remove sediment.

10.12 Sediment Basins (4.3.9)

Will a sediment basin be required during construction? Yes, No.

10.13 Dewatering (4.4)

Will dewatering be conducted during construction? Yes, No.

Will excavation dewatering be conducted within 1,500 feet of a DEC mapped contaminated site found on the following website? Yes, No. <http://www.arcgis.com/home/item.html?id=315240bfba84aa0b8272ad1cef3cad3>

10.14 Soil Stabilization (4.5, 5.3.6.3)

Disturbance of vegetative areas will be minimized to the maximum extent practicable. The majority of the project will be performed within the existing developed road prism and then it will be repaved or asphalted. If any disturbance occurs to vegetated areas seeding guidelines will be followed by Alaska Plant Materials Center – Revegetation Manual.

BMP Description: Permanent Seeding BMP 52 & 53
Source: DOT&PF Alaska SWPPP Guide. October 2016
Installation Schedule: Permanent seeding should be conducted in conjunction with various forms of mulching, matting, and annual grass (cereal grain) as a nurse crop.

Seeding should be done at the proper time of year. Proper application of fertilizers as prescribed will contribute to the success of the seeding. Once seeded, the site should not be disturbed. Irrigation may have to be used in low precipitation area (arid/semi-arid) for establishment.

Maintenance and Inspection:

Inspect all seeded areas on a regular basis and after each major storm event to check for areas where corrective measures may have to be made.

Indicate which areas need to be reseeded or where other remedial actions are necessary to assure establishment of permanent seeding.

Continue monitoring of the site/area until permanent vegetation is established.

Responsible Staff:

SWPPP Lead/Inspector as specified in Section 2.0

10.15 Treatment Chemicals (4.6; 5.3.6.4)

Will treatment chemicals be used to control erosion and/or sediment during construction? Yes, No.

10.16 Treatment Chemicals (4.6.1)

N/A

10.16.1 Treatment Chemical Use Procedures (4.6.2)

N/A

10.16.2 Application of Treatment Chemicals (4.6.3)

N/A

10.17 Active Treatment System Information or cationic treatment chemicals (4.6.7)

Will an ATS or cationic treatment chemicals be used as a control measure at the site? Yes, No.

N/A.

10.18 Good Housekeeping Measures (4.8)

10.18.1 Washing of Equipment and Vehicles (4.8.1)

Will equipment and vehicle washing and/or wheel wash-down be conducted at the site? Yes, No.

10.18.2 Fueling and Maintenance Areas (4.8.2)

Will equipment and vehicle fueling or maintenance be conducted at the site? Yes, No.

10.18.3 Staging and Material Storage Areas (4.8.3)

Designated areas for staging and material storage are located off site. Extended material storage areas are not anticipated during this project. If staging and/or material storage areas are present, designate areas to be used for staging and material storage areas.

<i>BMP Description: Vehicle and Equipment Storage, Maintenance, and Fueling AK-42</i>
<i>Source: DOT&PF Alaska SWPPP Guide 2016</i>
<i>Installation Schedule:</i> Vehicle and equipment maintenance activities will be located at least 50 feet from any downstream drainages or water bodies. Inspect vehicles and equipment daily for leaks. Repair leaks as soon as practicable. Store and/or dispose of all chemicals, lubricants, and fuels according to manufacturer’s recommendations. Perform all maintenance away from water bodies, environmentally sensitive areas, discharge points, and potential erosion areas. Keep a spill kit and drip pans/duck ponds accessible to vehicles being maintained.
<i>Maintenance and Inspection:</i> Equipment operators will visually inspect for leaks daily during active construction. Dispose of chemicals and clean up materials as soon as practicable.
<i>Responsible Staff:</i> SWPPP Lead/Inspector as specified in Section 2.0

10.18.4 Washout of Applicators/Containers Used for Paint, Concrete, and Other Materials (4.8.4)

Will washout areas for trucks, applicators, or containers of concrete, paint, or other materials be used at the site? Yes, No.

10.18.5 Fertilizer or Pesticide Use (4.8.5)

Will fertilizers or pesticides be used at the site? Yes, No.

If hand seeding, no fertilizer is needed. However, in the case of hydroseeding or other forms of revegetation, applications of fertilizers are necessary.

Material Name: N/A

10.19 Spill Notification (4.9)

Releases of hazardous substances or petroleum hydrocarbons in excess of the EPA’s or ADEC’s reportable quantities are documented in this plan; see Appendix H.

10.20 Construction and Waste Materials (4.8.6, 5.3.7)

Construction and waste materials that will be present on-site include but are not limited to: collected sediment, paper, plastic, fabric, liquid petroleum products, fuels, petroleum-contaminated material (used oil filters, etc.), drilling mud (contained and disposed off-site in accordance with state and federal regulations), solvents and cleaners, lead/acid batteries, toners, fluorescent light bulbs, batteries, other common office supplies, construction waste, and general trash.

The following requirements will be followed for the storage, handling, and disposal of construction debris and waste materials (with designated areas to be used for staging and material storage):

- Such activities will be located, to the extent practicable, away from storm water conveyance channels, storm drain inlets, and Waters of the United States;
- Construction personnel shall minimize the exposure to precipitation, storm water, and vandalism of all chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment;
- Collected sediment, paper, plastic, fabric, construction, and demolition debris, and other domestic wastes shall be disposed of according to federal, state, and local requirements, and;
- Hazardous or toxic waste shall be stored in appropriate sealed containers and disposed of in accordance with each applicable manufacturer's recommended method of disposal and/or federal, state, and local requirements.
- Containment shall be provided for sanitation facilities (portable toilets) to prevent discharge(s) of pollutants to the storm water drainage system or receiving waters. Sanitation facilities shall be cleaned regularly and inspected for leaks and spills.

<i>BMP Description: Solid Waste Management WM-6</i>
<i>Source: Idaho DOT Best Management Practices Manual. Idaho, January 2014</i>
<i>Installation Schedule:</i> Continuously during construction activities.
<i>Maintenance and Inspection:</i> All collection containers will be covered and emptied when full. Inspect as per requirements of the ACGP.
<i>Responsible Staff:</i> SWPPP Lead/Inspector as specified in Section 2.0

11.0 INSPECTIONS (5.4; 6.0)

11.1 Inspection Schedules (5.4.1.2; 6.1; 6.2)

Inspection frequency: Inspections will be conducted once every 14 days and within 24 hours of the end of a storm event that resulted in a discharge from the site.

Justification for reduction in inspection frequency, if applicable:

(1) If the entire site is stabilized in accordance with Section 4.5 of the 2026 CGP, the frequency of inspections may be reduced to at least once every calendar month (minimum of seven days separation between inspections) and within two business days of the end of a storm event at an actively staffed site that results in a discharge from the site.

(2) If portions of the project site have achieved final stabilization in accordance with Section 4.5 of the 2026 CGP but construction activity remains on other portions of the site, inspections may be suspended for those portions that have achieved final stabilization. However, inspections must be conducted on those sections within two business days of the end of a storm event that results in a discharge from the portion of the site previously considered finally stabilized.

(3) If the project is undergoing winter shutdown, inspections may stop 14 calendar days after the anticipated fall freeze-up and must resume inspections in accordance with Part 6.1 of the 2026 CGP at least 21 calendar days prior to the anticipated spring thaw.

(4) If the entire site has achieved final stabilization (as defined in Appendix C of the 2026 CGP) and a NOT has been submitted, no further inspection requirements apply to the site.

Estimated date of winter shutdown: 10/02/2026 – 5/03/2027

11.2 Inspection Form or Checklist (5.4.1.3; 6.7)

Inspection reports are included in Appendix K. A “Complete by Date” before the next storm event, when practicable, will be noted on the inspection form adjacent to any BMP that requires maintenance or modification.

11.3 Corrective Action Procedures (5.4.1.4; 8.0)

Corrective actions should be implemented when one or more of the following conditions occur:

- If an incident of non-compliance with the SWPPP or CGP is identified;
- If an Inspection or the Engineer identifies the SWPPP or any part of the SWPPP is ineffective in preventing erosion, sedimentation or the discharge of pollutants;
- If a required BMP was not installed according to the SWPPP schedule or phasing, or was installed incorrectly, or was not installed according to the CGP Part 4.0;
- If a BMP is not operating as intended, has not been maintained in an effective operation condition, or is unable to effectively perform the intended function;
- If a prohibited discharge of pollutants, as specified in CGP Part 4.6, is occurring or will occur; or
- If there is an accumulation of sediment or other pollutants, that is in or near any storm water conveyance channels, or that may enter a discharge point or storm sewer system. If there is an accumulation of sediment or other pollutants that is being tracked outside the project zone.

Implement corrective actions so that they comply with the following time requirements:

For conditions that are easily remedied (i.e. removal of tracked sediment, maintenance of control measure, or spill clean-up); initiate corrective action within 24 hours and complete as soon as possible;

For all other conditions, meet both the following requirements:

- Complete corrective action in time to protect water quality; and
- Complete corrective action no later than the Complete-by-Date that was entered in an Inspection Report.

If a corrective action is not implemented within the time requirements of this section, document the situation in the SWPPP, notify the Engineer and implement corrective action as soon as possible. If a corrective action could affect a subcontractor, notify the subcontractor within three days of taking corrective action.

Corrective Action Log

Corrective actions will be tracked using the Corrective Action Log (see Appendix J). Corrective actions will be implemented as soon as practicable. Simple actions will be completed within 24 hours.

11.4 Inspection recordkeeping (5.4.2)

Records will be maintained for a minimum period of at least three (3) years after the permit is terminated.

12.0 MONITORING PLAN (If Applicable) (5.5; 7.0)

12.1 Determination of Need for Monitoring Plan

Is there an EPA-established or approved TMDL Yes, No.

Is the receiving water listed as impaired for turbidity and/or sediment? Yes, No.

What is the acreage of the disturbance in the proposed construction project? 1.3 acres.

Is the disturbed acreage equal to or greater than 20 acres? Yes, No.

12.2 Monitoring Plan Development

Monitoring schedules (5.5.1.2; 7.3.2): N/A

Monitoring form or checklist (5.5.1.3; 7.3.9): N/A

Corrective action procedures (5.5.1.4; 8.0): N/A

12.3 Monitoring Considerations

- Locate upstream/upgradient sampling point(s) to determine background turbidity in the receiving water body. The location should be reasonably close to discharge but not so close as to experience increased turbidity from discharge. Clearly mark in field and on map in SWPPP.
- Sample the discharge where it enters the receiving water body or where it leaves the construction site. Clearly mark in field and on map in SWPPP.
- The discharge entering the water body impaired for turbidity or sediment must not exceed 5 nephelometric turbidity units (NTU) above natural conditions when the natural turbidity is 50 NTU or

less, and may not have more than a 10-percent increase in turbidity when the natural turbidity is more than 50 NTU, not to exceed a maximum increase of 25 NTU.

- Correct control measures within seven (7) calendar days, update your SWPPP to reflect improvements, submit a Corrective Action Report consistent with the CGP, AND continue daily sampling until discharge meets allowable turbidity.
- If a specific waste-load allocation has been established for turbidity or sediment that would apply to the discharge of storm water from the construction site, the permittee must implement necessary steps to meet that allocation.
- If there is only a general waste-load allocation applicable to construction storm water discharges, the permittee must consult the ADEC to confirm consistency with approved TMDL.

13.0 POST-AUTHORIZATION RECORDS (5.8)

Copy of Permit Requirements (5.8.1)

The SWPPP must contain the following documents:

- copy of CGP (5.8.1.1);
- copy or signed and certified NOI form submitted to ADEC (5.8.1.2);
- upon receipt, a copy of letter from ADEC authorizing permit coverage, providing tracking number (5.8.1.3); and

These documents must be included in Appendix F.

13.1 Additional Documentation Requirements (5.8.2)

- Dates when grading activities occur (5.8.2.1; insert in Appendix G).
- Dates when construction activities temporarily or permanently cease on a portion of the site (5.8.2.1.3; insert in Appendix G).
- Dates when stabilization measures are initiated (5.8.2.1.4; insert in Appendix G).
- Date of beginning and ending period for winter shutdown (5.8.2.2; insert in Appendix G).
- Copies of inspection reports (5.4.2; 5.8.2.3; insert in Appendix K).
- Copies of monitoring reports, if applicable (5.8.2.4; insert in Appendix H).
- Documentation in support of chemical-treatment processes (4.6; 5.8.2.6; insert in Appendix H).
- Documentation of maintenance and repairs of control measures (5.8.2.8; 8.1; 8.2; insert in Appendix J).
- Documentation of any rainfall monitoring records (6.7.1.3)

13.1.1 Records of Employee Training (4.14; 5.8.2.7)

Describe Training Conducted:

Training staff and subcontractors is an effective BMP. The Project Manager will be responsible for ensuring that employees are aware of control measures that are being used during construction. Training records including the data, name of attendees, subjects covered, and length of training are located in Appendix I. Items covered during storm water training should include a description of what storm water is, what to look for on the construction project site, what to do if an issue is identified, and who to contact.

Good Housekeeping

- Employee responsibility and accountability, basic cleanup procedures, proper storage, and disposal procedures.

Detailed training will be conducted for staff and subcontractors with specific storm water responsibilities (e.g. installing, inspecting, and maintaining BMPs). This training will include a review of the SWPPP, and the topics listed below:

- SWPPP contents, with emphasis on BMP locations, maintenance, inspections, record keeping, logs, and contacts;
- Good housekeeping measures and employee responsibility and accountability, basic cleanup procedures, proper storage and disposal procedures;
- Spill prevention and response, fuel transfer procedures; and
- Material handling and storage, and hazardous waste management.

Individual(s) Responsible for Training:

Contractor TBD

14.0 MAINTAINING AN UPDATED SWPPP (5.9)

The permittee must modify the SWPPP, including site map(s), in response to any of the following:

- whenever changes are made to construction plans, control measures, good housekeeping measures, monitoring plan (if applicable), or other activities at the site that are no longer accurately reflected in SWPPP (5.9.1.1);
- if inspections of site investigations by staff or by local, state, tribal, or federal officials determine SWPPP modifications are necessary for permit compliance (5.9.1.2); and
- to reflect any revisions to applicable federal, state, tribal, or local laws that affect control measures implemented at the construction site (5.9.1.3).

14.1 Log of SWPPP Modifications (5.9.2)

A permittee must keep a log showing dates, name of person authorizing the change, and a brief summary of changes for all significant SWPPP modifications (e.g., adding new control measures, changes in project design, or

significant storm events that cause replacement of control measures). A form to document SWPPP amendments has been placed at the beginning of this template.

14.2 Deadlines for SWPPP Modifications (5.9.3)

Revisions to the SWPPP must be completed within seven days of the inspection that identified the need for a SWPPP modification or within seven days of substantial modifications to the construction plans or changes in site conditions.

15.0 ADDITIONAL SWPPP REQUIREMENTS (5.10)

15.1 Retention of SWPPP (5.10.1)

A copy of the SWPPP (including a copy of the permit), NOI, and acknowledgment letter from ADEC must be retained at the construction site.

15.2 Main Entrance Signage (5.10.2)

A sign or other notice must be posted conspicuously near the main entrance of the site. The sign or notice must include the permit authorization number assigned to the NOI, Operator Contact Name and phone number for obtaining additional construction site information, and location of the SWPP or name and telephone number of the contact person for scheduling SWPPP viewing times. If the location of the SWPPP or the name and telephone number of the contact person for scheduling SWPPP viewing times has changed (i.e., is different than that submitted to DEC in the NOI), the current location of the SWPPP or name and telephone number of a contact person for scheduling viewing times.

15.3 Availability of SWPPP (5.10.3)

The permittee must keep a current copy of the SWPPP at the site. The SWPPP must be made available to subcontractors, government and tribal agencies, and MS4 operators, upon request.

15.4 Signature and Certification (5.10.4)

The SWPPP must be signed and certified in accordance with the requirements of the CGP Appendix A, Part 1.12. The certification form on page ii of this template meets the requirements of this paragraph.

15.5 Submittal of a Modification to NOI (2.7)

Note: A permittee must file an NOI modification form to DEC (see Permit Part 2.3) to update or correct the following information on the original NOI within 30 calendar days of the change:

- Owner/Operator address and contact information;
- Site information;
- Estimated start or end dates;
- Number of acres to be disturbed; or
- SWPPP location and contact information.

APPENDICES

APPENDIX A – SITE MAPS AND DRAWINGS

APPENDIX B – BMP DETAILS

APPENDIX C – PROJECT SCHEDULE

APPENDIX D – SUPPORTING DOCUMENTATION:

- ENDANGERED SPECIES
- OTHER PERMITS

APPENDIX E – DELEGATION OF AUTHORITY, SUBCONTRACTOR CERTIFICATIONS

APPENDIX F – PERMIT CONDITIONS:

- COPY OF SIGNED NOTICE OF INTENT
- COPY OF LETTER FROM ADEC AUTHORIZING COVERAGE
- ADEC NOI TRACKING NUMBER
- ALASKA CONSTRUCTION GENERAL PERMIT REFERENCE
- OTHER PERMITS

APPENDIX G – GRADING AND STABILIZATION RECORDS

APPENDIX H – DEWATERING PLAN AND SPILL REPORT PROCEDURES

APPENDIX I – TRAINING RECORDS

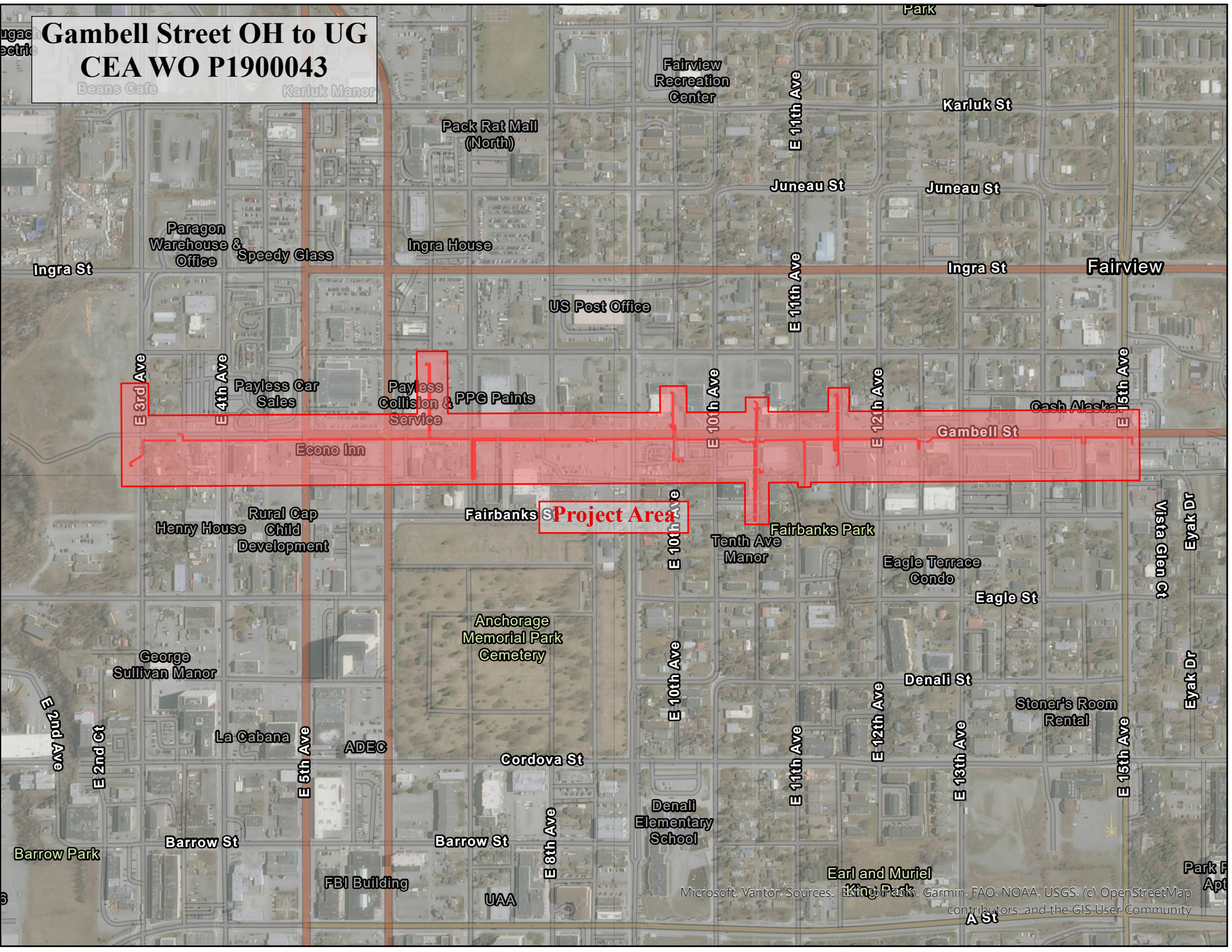
APPENDIX J – CORRECTIVE ACTION LOG

APPENDIX K – INSPECTION RECORDS

APPENDIX A

SITE MAPS

Gambell Street OH to UG CEA WO P1900043



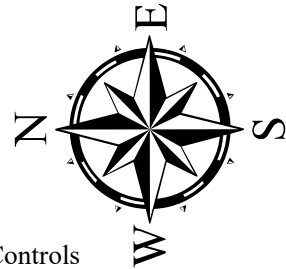
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Gambell Street OH to UG CEA WO P1900043

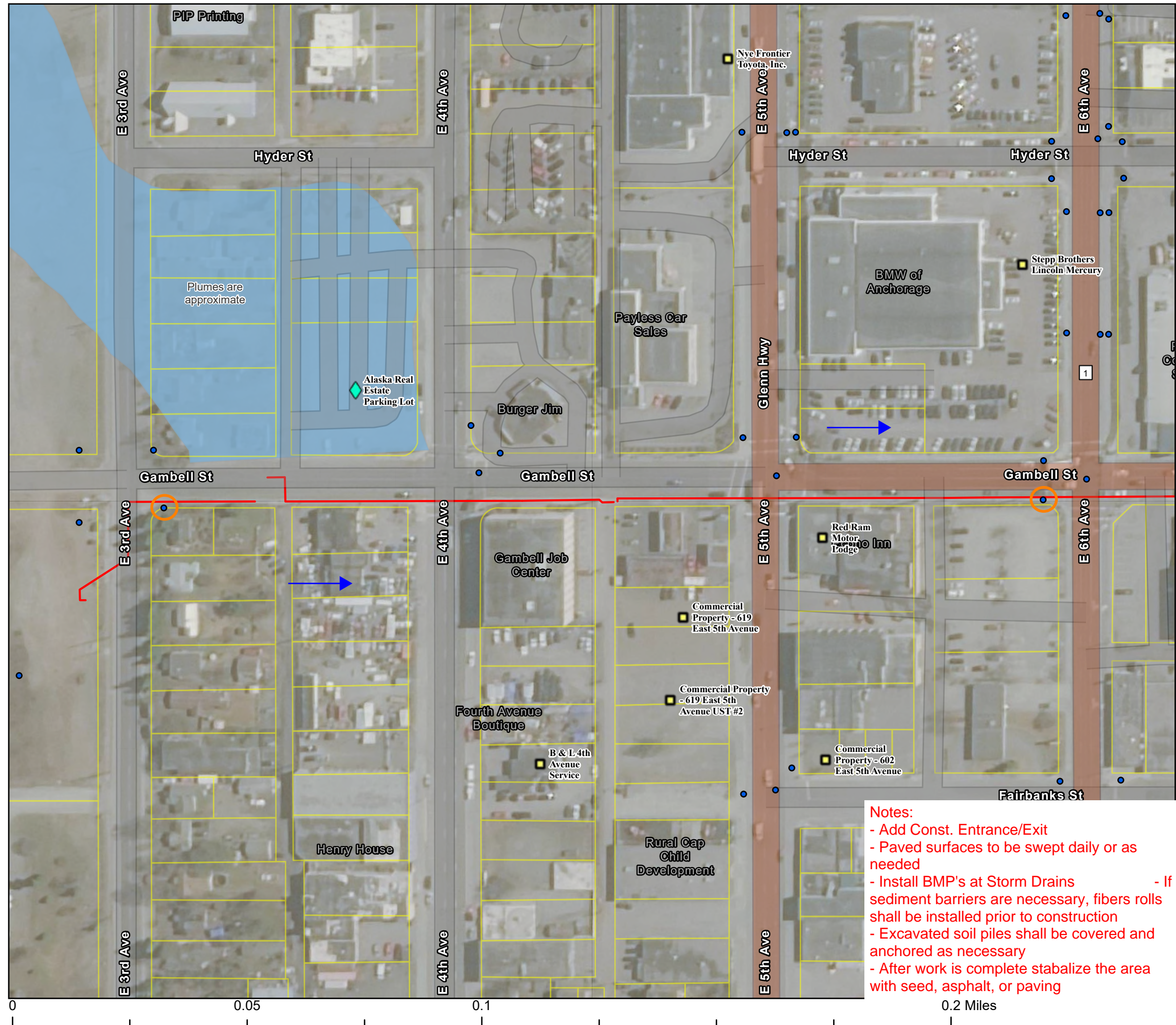
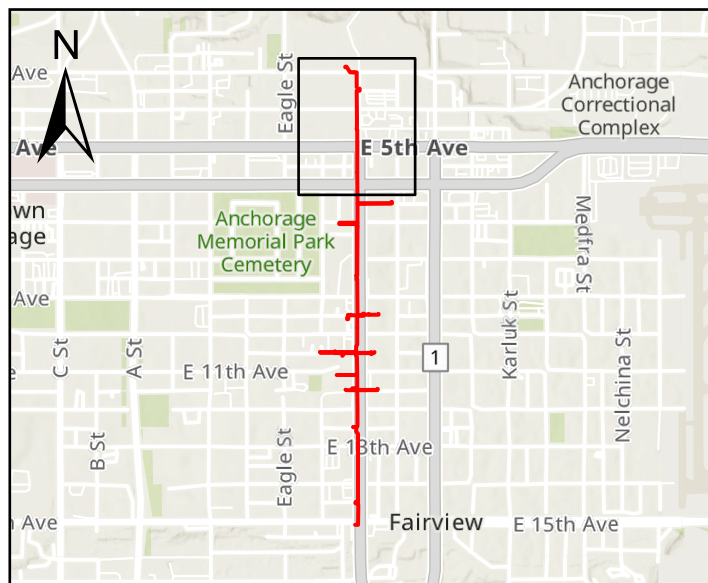
BMP Map

Legend

- | | |
|------------------|------------------------|
| Conductor Line | Plumes |
| Storm Drains | Petroleum Contaminants |
| streams | Chlorinated Solvents |
| Inlet Protection | PFAS Compounds |
| Fiber Roll | Other |
| Flow Direction | Metals |
| Vault | |
| parcels | |
-
- Contaminated Sites
- Active
 - Cleanup Complete
 - Cleanup Complete - Institutional Controls
 - Informational



Page 1 of 4



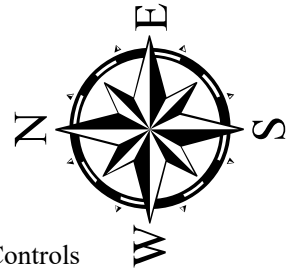
- Notes:**
- Add Const. Entrance/Exit
 - Paved surfaces to be swept daily or as needed
 - Install BMP's at Storm Drains
 - If sediment barriers are necessary, fibers rolls shall be installed prior to construction
 - Excavated soil piles shall be covered and anchored as necessary
 - After work is complete stabilize the area with seed, asphalt, or paving

Gambell Street OH to UG CEA WO P1900043

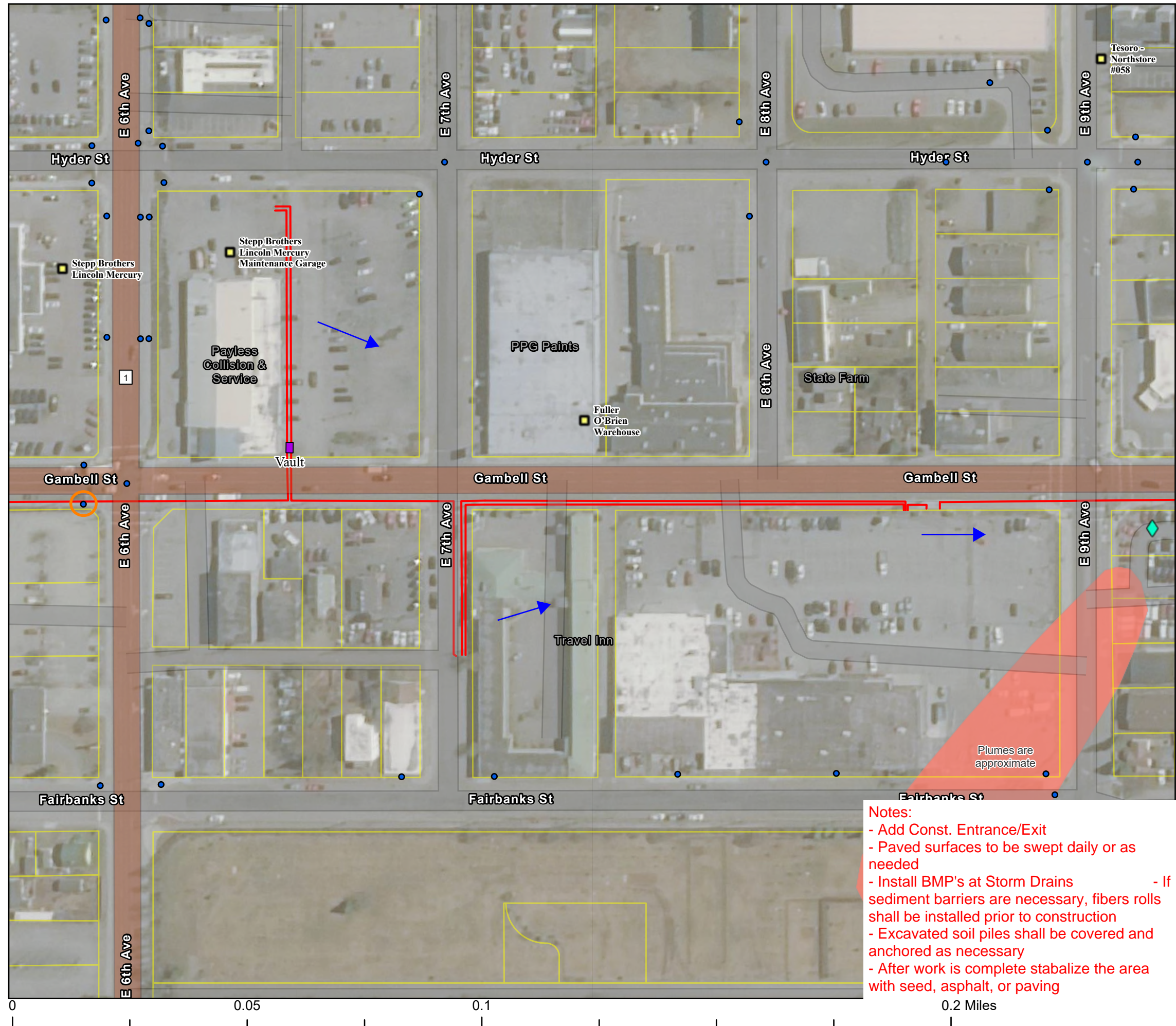
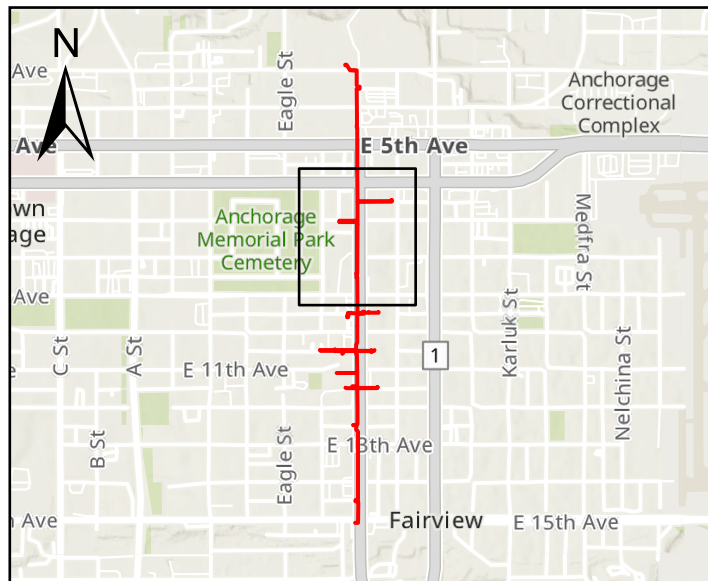
BMP Map

Legend

- | | |
|---|------------------------|
| Conductor Line | Plumes |
| Storm Drains | Petroleum Contaminants |
| streams | Chlorinated Solvents |
| Inlet Protection | PFAS Compounds |
| Fiber Roll | Other |
| Flow Direction | Metals |
| Vault | |
| parcels | |
| Contaminated Sites | |
| Active | |
| Cleanup Complete | |
| Cleanup Complete - Institutional Controls | |
| Informational | |



Page 2 of 4



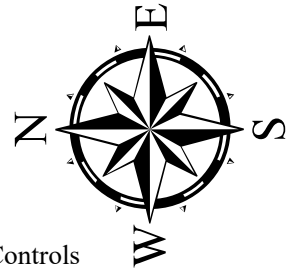
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- Add Const. Entrance/Exit
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Gambell Street OH to UG CEA WO P1900043

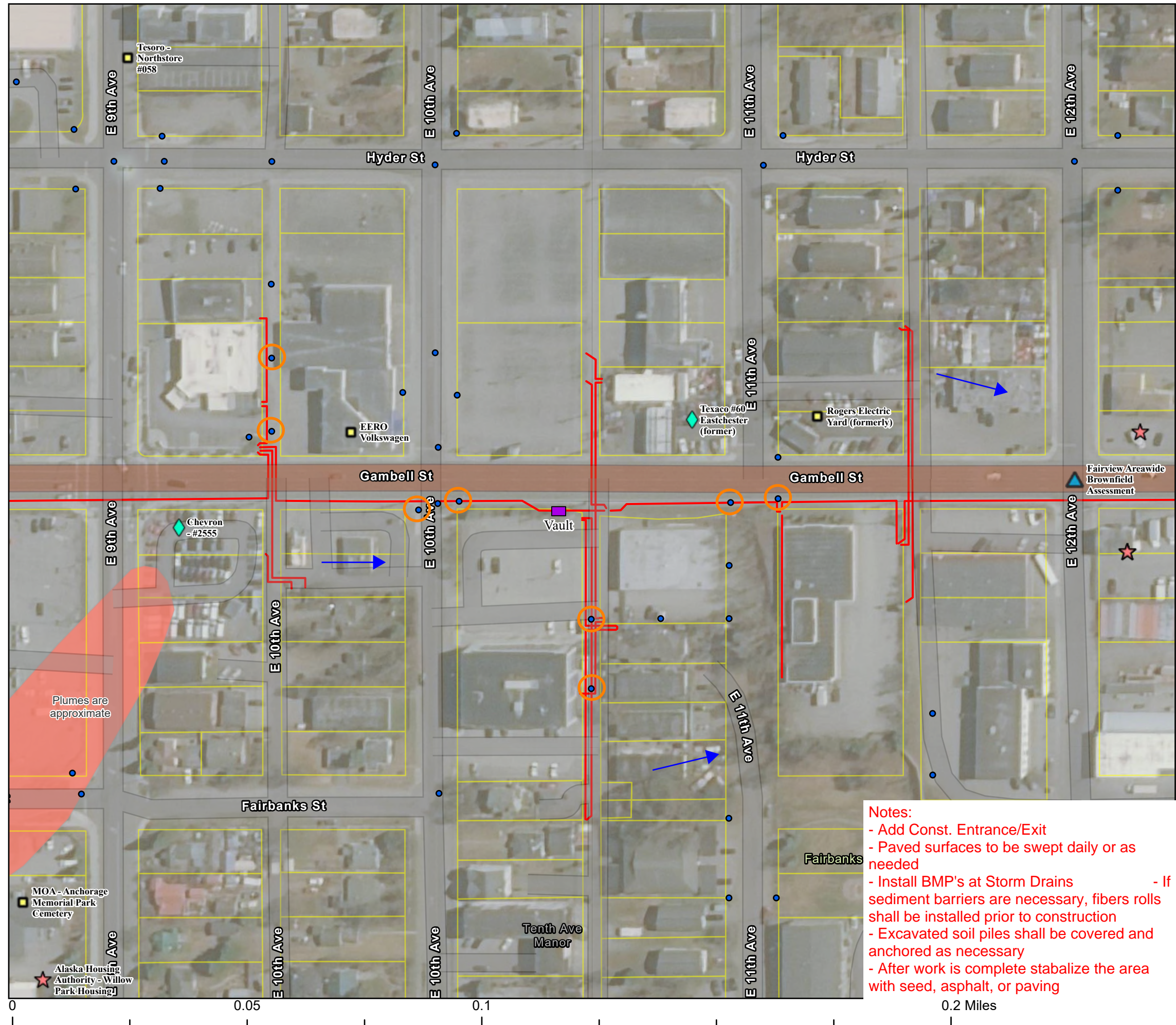
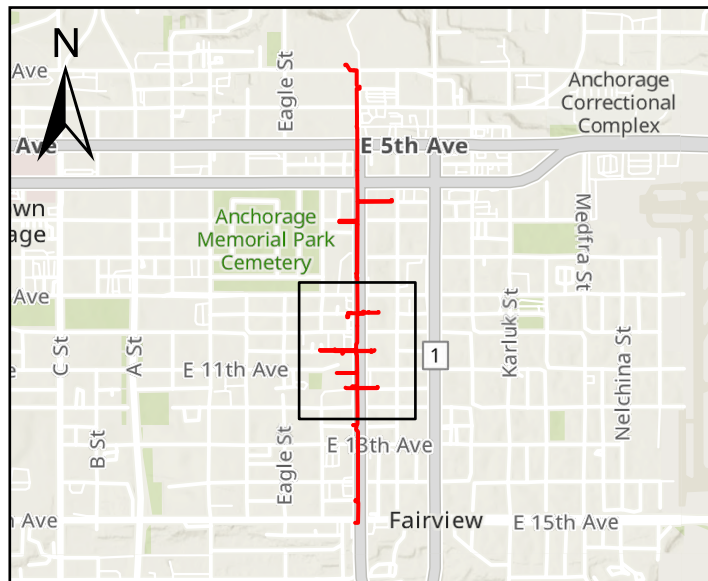
BMP Map

Legend

- | | |
|------------------|------------------------|
| Conductor Line | Petroleum Contaminants |
| Storm Drains | Chlorinated Solvents |
| streams | PFAS Compounds |
| Inlet Protection | Other |
| Fiber Roll | Metals |
| Flow Direction | |
| Vault | |
| parcels | |
-
- Contaminated Sites
- Active
 - Cleanup Complete
 - Cleanup Complete - Institutional Controls
 - Informational



Page 3 of 4



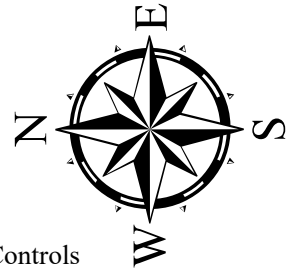
- Notes:**
- Add Const. Entrance/Exit
 - Paved surfaces to be swept daily or as needed
 - Install BMP's at Storm Drains
 - If sediment barriers are necessary, fibers rolls shall be installed prior to construction
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Gambell Street OH to UG CEA WO P1900043

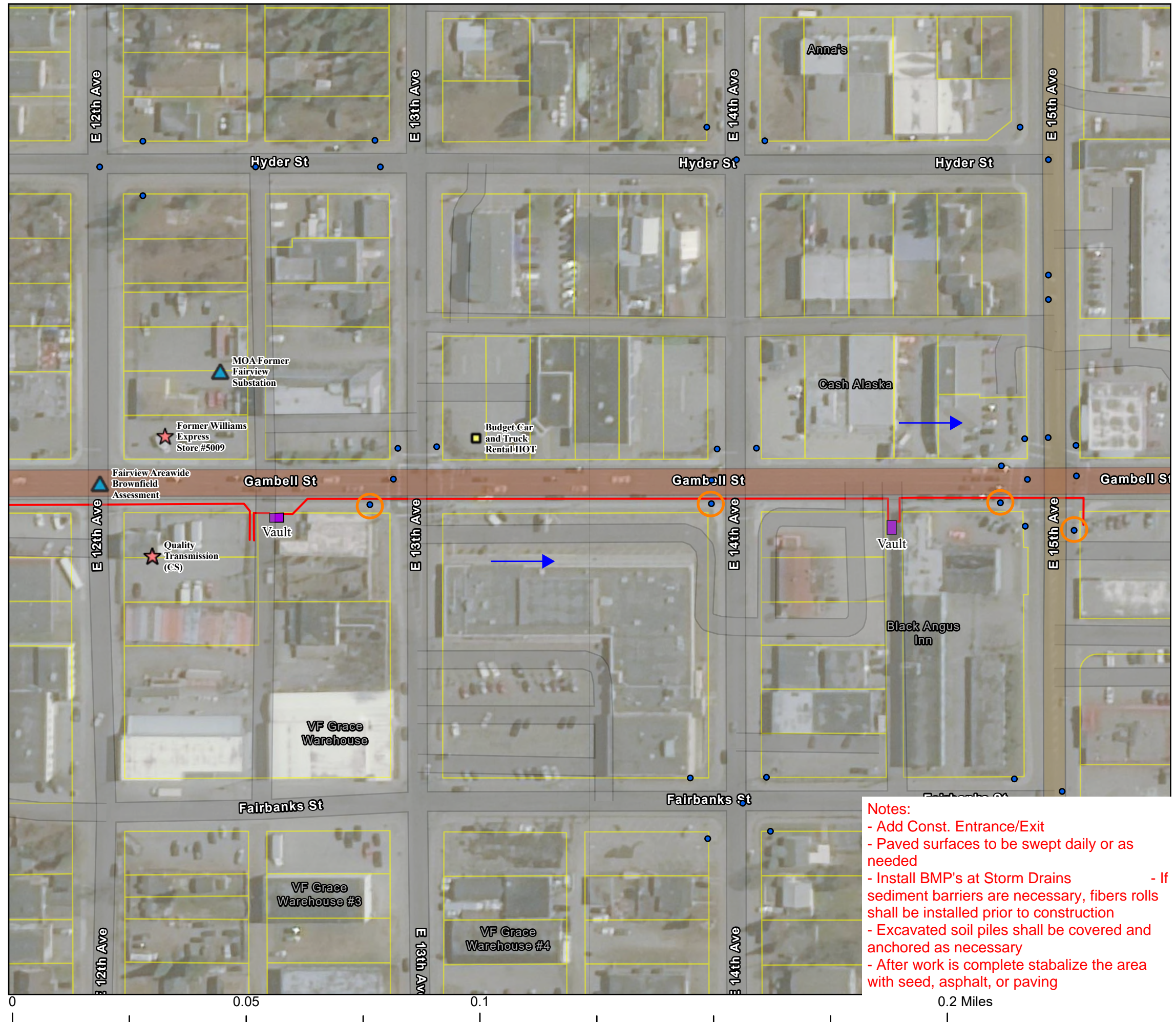
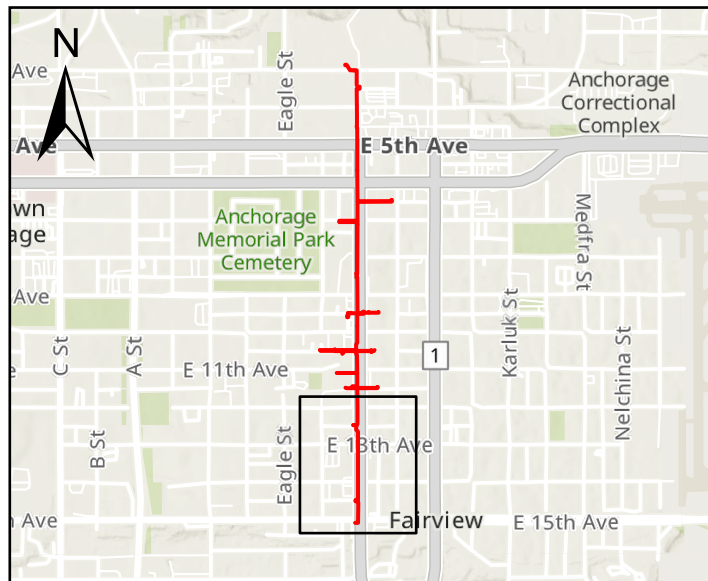
BMP Map

Legend

- | | |
|---|------------------------|
| Conductor Line | Plumes |
| Storm Drains | Petroleum Contaminants |
| streams | Chlorinated Solvents |
| Inlet Protection | PFAS Compounds |
| Fiber Roll | Other |
| Flow Direction | Metals |
| Vault | |
| parcels | |
| Contaminated Sites | |
| Active | |
| Cleanup Complete | |
| Cleanup Complete - Institutional Controls | |
| Informational | |

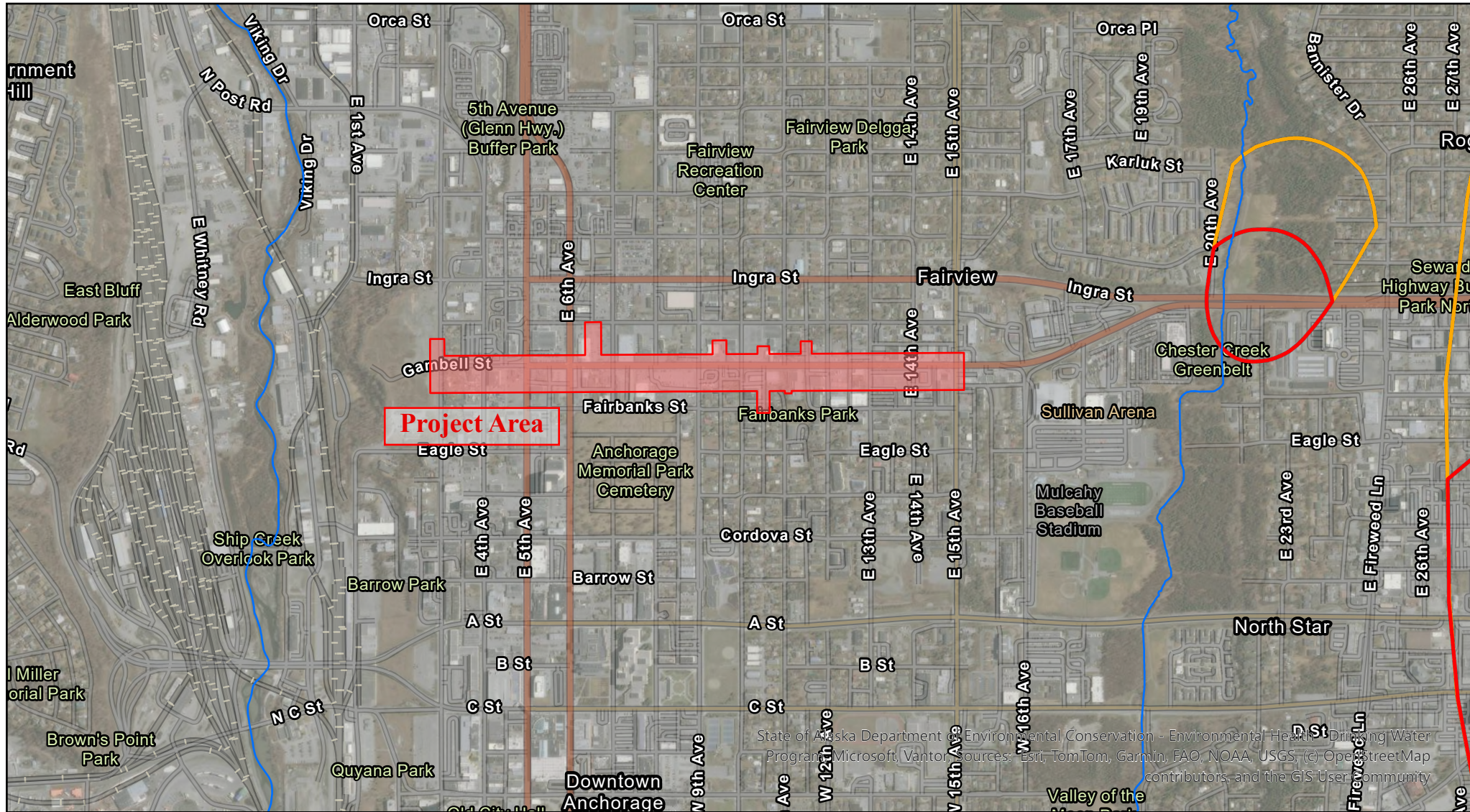


Page 4 of 4

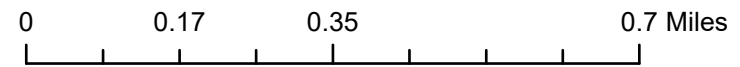
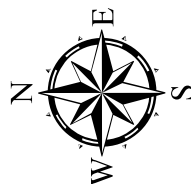


- Notes:**
- Add Const. Entrance/Exit
 - Paved surfaces to be swept daily or as needed
 - Install BMP's at Storm Drains
 - If sediment barriers are necessary, fibers rolls shall be installed prior to construction
 - Excavated soil piles shall be covered and anchored as necessary
 - After work is complete stabilize the area with seed, asphalt, or paving

Gambell Street OH to UG CEA WO P1900043 Alaska ADEC Drinking Water Protection Areas



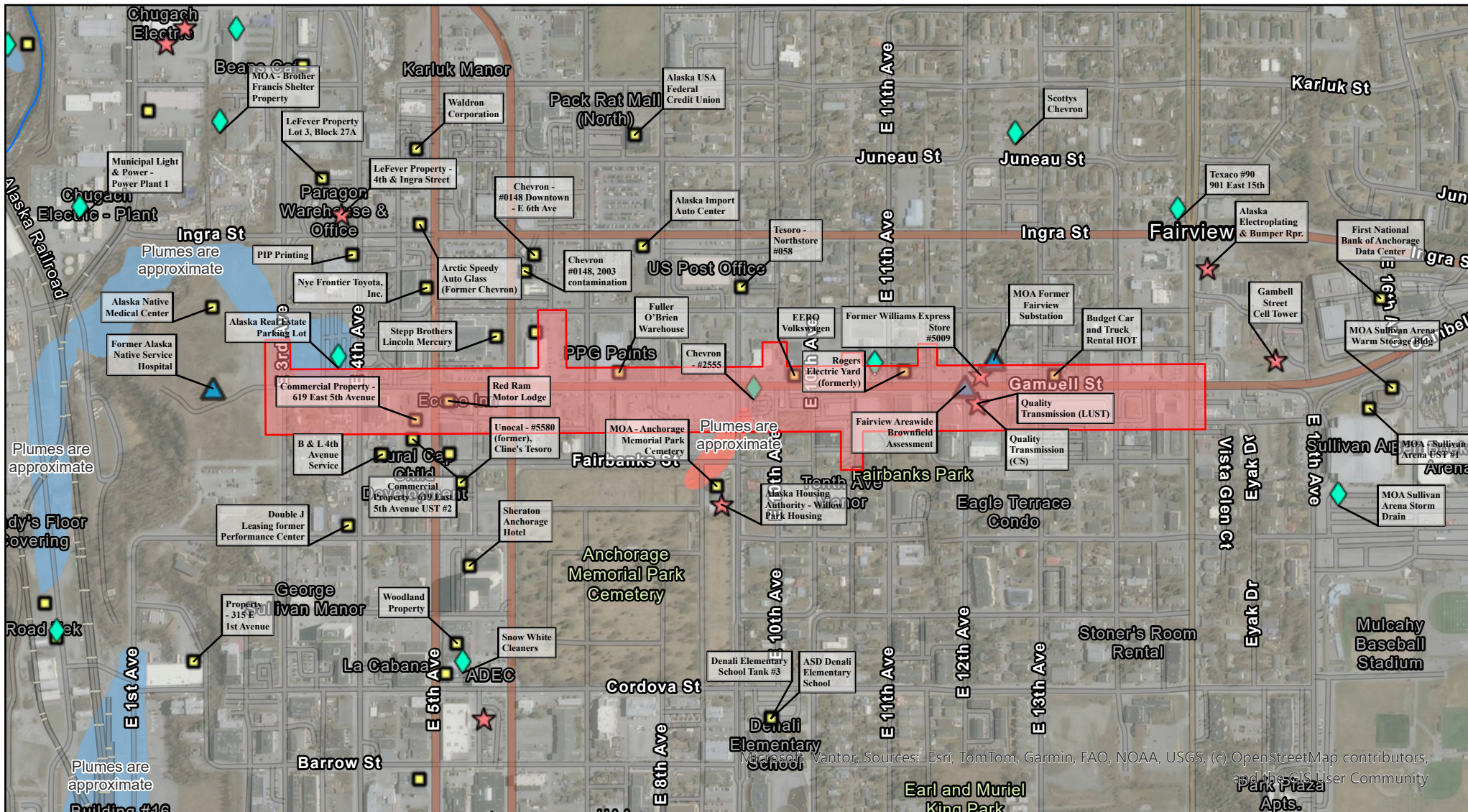
- Zone A (GW-Several Months Time of Travel or SW 1000 ft buffer)
- Zone B (GW-2 Yr Time of Travel or SW-1 mile buffer)
- Zone C Surface Water (Watershed Boundary)
- Zone E Ground Water Surface Water Influence (1000 ft buffer)
- Zone F Ground Water Surface Water Influence (1 mile buffer)
- Zone G Ground Water Surface Water Influence (Watershed Boundary)
- Provisional Protection Areas



4/21/2026

State of Alaska Department of Environmental Conservation - Environmental Health - Drinking Water Program
 Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User community

Gambell Street OH to UG CEA WO P1900043 DEC Contaminated Sites



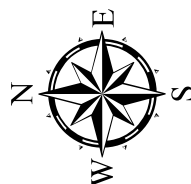
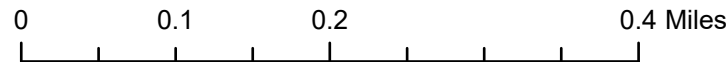
Contaminated Sites

- ◆ Active
- Cleanup Complete
- ★ Cleanup Complete - Institutional Controls
- ▲ Informational

Plumes

- Petroleum Contaminants
- Chlorinated Solvents
- PFAS Compounds
- Other
- Metals

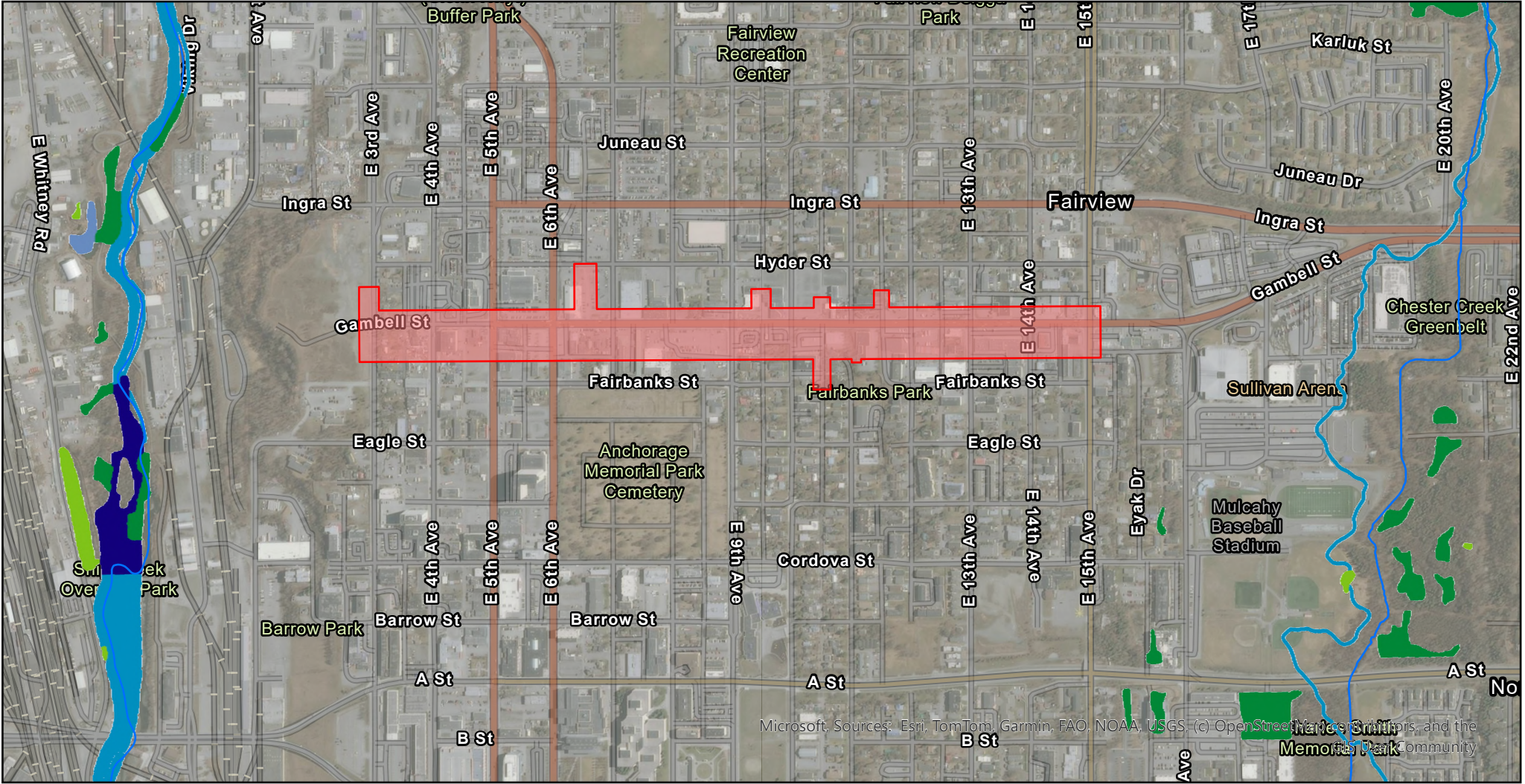
Project Area



4/21/2026

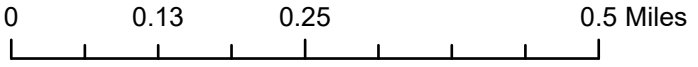
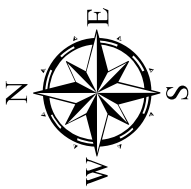
MapSource: Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Gambell Street OH to UG CEA WO P1900043 NWI Wetland Map



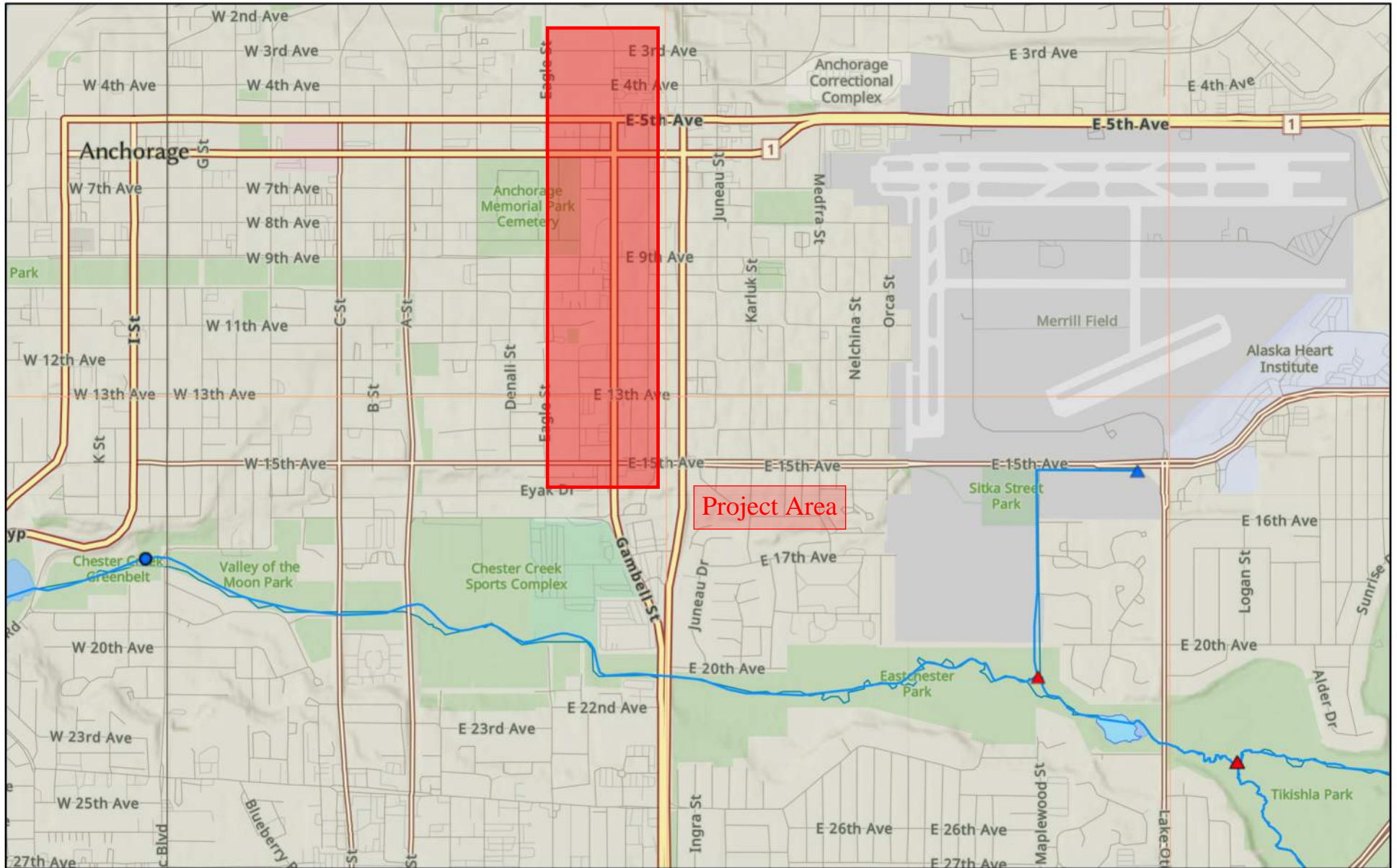
Microsoft, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the community

- WETLAND_TYPE**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Other
 - Riverine



4/21/2026

AWC Map



4/21/2026, 1:53:33 PM

AWC 2025 - Anadromous points

▲ LOWER

● MID End

▲ UPPER

— AWC 2025 - Anadromous streams

□ PLSS - PLS TOWNSHIP PY

□ PLSS - PLS SECTION PY

■ AWC 2025 - AWC Lakes

1:36,112

0 0.15 0.3 0.6 mi

0 0.23 0.45 0.9 km

ADFG SF GIS. Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, USGS,

ADF&G

Sources: Esri, USGS | Esri, USGS, FEMA | Kenai Peninsula Borough, Matanuska-Susitna Borough GIS, Municipality of Anchorage, State of Alaska, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS | ADFG SF

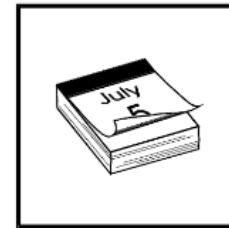
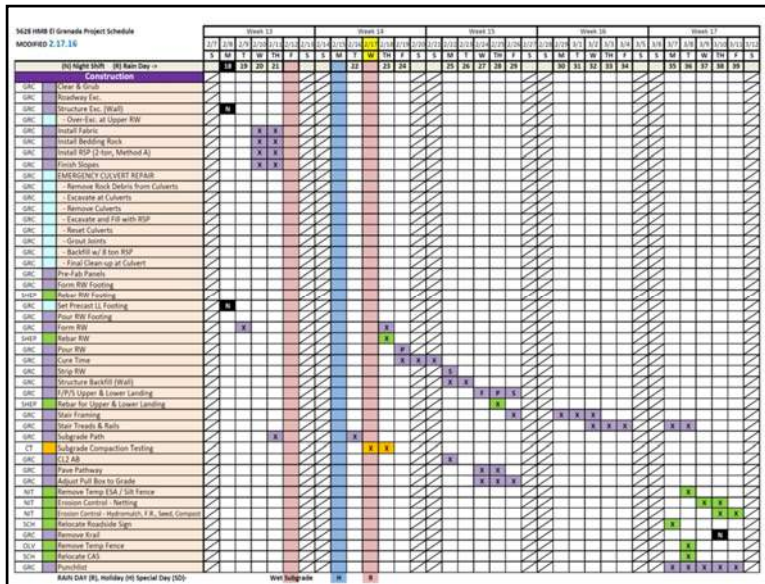
APPENDIX B

BMP DETAILS

BMP List

BMPs called in the SWPPP (in order of mention, no repeats):

1. ***Scheduling SS-1*** - Caltrans Storm Water Quality Handbooks, Construction Site Best Management Practices Manual, May 2017.
2. ***Site Delineation/Clearing Limits BMP 54*** - DOT&PF Alaska SWPPP Guide. October 2016
3. ***Preservation of Existing Vegetation AK-1*** - DOT&PF Alaska SWPPP Guide. February 2011
4. ***Fiber Rolls BMP 10a & 10b*** - DOT&PF Alaska SWPPP Guide. October 2016
5. ***Inlet Protection BMP 25-29*** - DOT&PF Alaska SWPPP Guide. October 2016
6. ***Vehicle Tracking Entrance/Exit AK 23 & 24***- DOT&PF Alaska SWPPP Guide. October 2016
7. ***Street Sweeping AK-55*** - DOT&PF Alaska SWPPP Guide 2016
8. ***Wind Erosion Control WE-1*** - Caltrans, Storm Water Quality Handbooks, Construction Site Best Management Practices (BMP) Manual, May 2017
9. ***Geotextiles, Plastic Covers and Erosion Control Blankets/Mats BMP EC-11*** - Best Management Practices Manual. Idaho, January 2014
10. ***Permanent Seeding BMP 52 & 53*** - DOT&PF Alaska SWPPP Guide. October 2016
11. ***Vehicle and Equipment Storage, Maintenance, and Fueling AK-42*** – DOT&PF Alaska SWPPP Guide 2016
12. ***Solid Waste Management WM-6*** - Idaho DOT Best Management Practices Manual. Idaho, January 2014



Standard Symbol

BMP Objectives	
Soil Stabilization	<input checked="" type="checkbox"/>
Sediment Control	<input checked="" type="checkbox"/>
Tracking Control	<input checked="" type="checkbox"/>
Wind Erosion Control	<input checked="" type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose

This BMP involves developing, for every project, a schedule that includes sequencing of construction activities with the implementation of construction site BMPs such as temporary soil stabilization and temporary sediment control measures. The purpose is to reduce the amount and duration of soil exposed to erosion by wind, rain, runoff, and vehicle tracking, and to perform the construction activities and control practices in accordance with the planned schedule.

Appropriate Applications

Construction sequencing should be scheduled to minimize land disturbance during the wetter months for all projects. In addition, any construction windows required by regulatory permits, and any winter suspension work should be described in the schedule. Appropriate BMPs must be implemented year-round.

Limitations

Environmental constraints such as nesting season prohibitions reduce the full capabilities of this BMP.

Standards and Specifications

General Requirements

- Developing a schedule and planning the project operations to minimize erosion and the potential to discharge pollutants to stormwater are the very first steps in an effective stormwater program. The construction schedule must be incorporated into the SWPPP or WPCP. Refer to Section 8 and 13 of the Standard Specifications.

- The schedule should clearly show when work activities that could pollute stormwater with sediment or other contaminants would occur (e.g., grading, move-in, move-out, stockpiling, pile driving), and when soil stabilization, sediment control, and other BMPs associated with each phase of construction would be implemented.
- The schedule should include details on the implementation and deployment of:
 - Temporary and permanent soil stabilization BMPs
 - Temporary sediment control BMPs
 - Tracking control BMPs
 - Wind erosion control BMPs
 - Non-stormwater BMPs and
 - Waste management and materials pollution control BMPs
- The schedule should also include dates for significant long-term operations or activities that may have planned non-stormwater discharges such as dewatering, sawcutting, grinding, drilling, boring, crushing, blasting, painting, hydro-demolition, mortar mixing, bridge cleaning, etc.
- The construction schedule should reflect requirements for in-water work and other construction activity with potential to disturb water and biological resources contained in regulatory agency permits and approvals (RWQCB 401 WQC, USACE 404 permit, DFG 1602 permit, etc.).

Recommendations

- Schedule work to minimize soil disturbing activities during predicted rain events. Consider rescheduling activities for dry periods to minimize maintenance requirements.
- Develop the sequencing and timetable for the start and completion of each item such as site clearing and grubbing, grading, excavation, paving, pouring foundations, installing utilities, etc., to minimize the active construction area.
- Schedule major grading operations during dryer months when practical.
- Stabilize inactive areas within 15 days from the cessation of soil-disturbing activities or one day prior to the onset of precipitation, whichever occurs first. Must consider manufacturers recommendation for the selected soil stabilization BMP to ensure they meet the minimum dry time required. See Appendix B of this Manual for additional guidance.
- Monitor the weather forecast for storm events, which are storms that produce or are forecasted to produce at least 0.1 inch of precipitation within a 24-hour period. When rainfall is predicted, adjust the construction schedule to allow the implementation of soil stabilization, sediment controls, and, if applicable, sediment treatment controls on all disturbed areas prior to the onset of rain.

- Ensure ample supply of BMP materials are on site in order to quickly mobilize and implement required BMPs, particularly ahead of rain events when materials may be in short supply or back order.
 - Be prepared year-round to deploy soil stabilization and sediment control practices. Erosion may be caused during dry seasons by unseasonal rainfall, wind, and vehicle tracking. Keep the site stabilized year-round, and retain and maintain sediment trapping devices in operational condition.
 - Sequence trenching activities so that most open portions are closed before new trenching begins. Trenched material should be stored on the upstream side of the trenches.
 - Incorporate staged seeding and re-vegetation of graded slopes as work progresses.
 - Consider the early planting and establishment of permanent vegetation in the schedule to maximize plant establishment success and minimize irrigation and continuous maintenance needs.
 - Apply permanent erosion control to areas deemed substantially complete during the project's defined seeding window.
- Maintenance and Inspection
- Verify that work is progressing in accordance with the schedule. If progress deviates, take corrective actions.
 - Keep the schedule up to date and ensure it is consistent with the contractor's three-week look ahead, or other routine schedule submitted to the RE under the contract.
 - Amend the schedule when changes are warranted or when directed by the RE.
- SWPPP or WPCP
- A Water Pollution Control Schedule (WPCS) must include construction operations and BMP implementation for the entire duration of the project. The WPCS is to be included as an attachment and discussed in section 500.7 of the SWPPP or Section 30.5 of the WPCP.

BMP 54.00. Site Delineation

DESIGN CONSIDERATIONS

Objectives

Site delineation measures are intended to mark (1) all areas where land disturbing activities will occur, including clearing and grading, and (2) specific areas that will be left undisturbed, such as trees, boundaries of sensitive areas, or environmental buffer zones, prior to work beginning. Buffer zones may include those at stream crossings and around the edges of any wetlands or waters of the U.S. that are located within or immediately adjacent to the property where the construction activity will take place.

This measure is intended to comply with the requirements of Alaska Construction General Permit.

Description

Site delineation measures may be physical barriers, such as temporary fencing, or visual indications, such as staking and flagging, used to delineate specific areas. They are intended to remain until construction activity is completed. The most common measures include temporary fencing, survey flagging tape, stakes, paint on asphalt or concrete, and signs.

Other Names

Flagging, temporary fencing, high-visibility fencing, staking, signs, paint markings.

Applicability

Site delineation applies to all construction projects involving land disturbing activities.

Selection Considerations

Choose marking materials that have high visibility and contrast with the natural surroundings. Select materials based on ability to last for the duration of construction. This is especially important for construction that will span multiple seasons, or last several years.

Sensitive areas and their buffers may require more substantial protection, such as work zone safety fences. Silt fence, in combination with survey flagging, can be an acceptable method of marking sensitive areas and buffers. However, silt fencing

should only be used for this purpose if it is also needed for, and properly installed and maintained as, a sediment control measure.

If fencing other than orange fencing is used, provide signage with wording describing the purpose of the fence.

If signs are to be used, specify the type and spacing of signs and the wording on the sign, such as 'No Entry,' 'Keep Out,' 'No Grade Change', 'No Work, Storage Of Materials or Equipment Permitted Beyond This Point,' or other appropriate directive. Specify minimum lettering size for signs.

For long linear projects that are constructed in phases, consider the following:

- Provide delineation to protect adjacent out-of-phase areas that are not part of the current phase of construction.
- Specify installation of site delineation to coincide with phases of construction so that the length of time the site delineation must be inspected and maintained is sufficient but no longer (too far in advance) than necessary.

Common Failures or Misuses

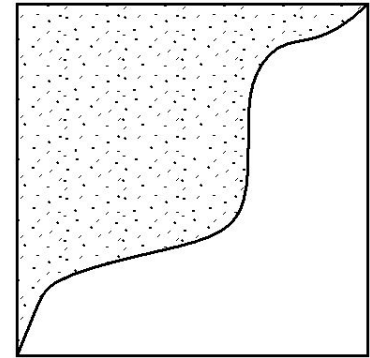
- Failure to install prior to land disturbing activities.
- Inappropriately using materials intended for other purposes. For example, silt fencing material should not be used unless it is properly installed as a sediment control measure (BMP-20).
- Installing markers too close to areas of construction activity; failure to provide adequate maneuvering room for construction activities.
- Damage to markings and flagging cut down during clearing activities.
- Using products that are easily vandalized by humans or disturbed by animals.

EC-11 GEOTEXTILES, PLASTIC COVERS & EROSION CONTROL BLANKETS/MATS

Refer to: ITD Standards and Specifications for Highway Construction, Sections 212, 621, and 711.

ITD Standard Drawing P-2-C.

QPL Category: 621 Erosion Blanket – Rolls (RECPs)



Standard Symbol

Definition and Purpose

This BMP involves the placement of geotextiles, mats, plastic covers, or erosion control blankets to temporarily stabilize disturbed soil areas and protect soils from erosion by wind or water.

Appropriate Applications

These measures are used when disturbed soils may be particularly difficult to stabilize, including the following situations:

- Steep slopes, generally steeper than 3:1
- Slopes with loose soils or non-cohesive sandy and/or silty material.
- Slopes and disturbed soils where mulch must be anchored.
- Disturbed areas where plants are slow to develop.
- Channels with flows exceeding 3 feet/second.
- Channels to be vegetated
- Stockpiles
- Slopes adjacent to water bodies of environmentally sensitive areas (ESAs).

Limitations

- Blankets and mats are more expensive than other erosion control measures, due to labor and material costs. This usually limits their application to areas inaccessible to hydraulic equipment or where other measures are not applicable, such as channels.

BMP Objectives	
<input type="checkbox"/>	Perimeter Control
<input checked="" type="checkbox"/>	Slope Protection
<input checked="" type="checkbox"/>	Borrow and Stockpiles
<input checked="" type="checkbox"/>	Drainage Areas
<input type="checkbox"/>	Sediment Trapping
<input type="checkbox"/>	Stream Protection
<input checked="" type="checkbox"/>	Temporary Stabilizing
<input checked="" type="checkbox"/>	Permanent Stabilizing

- Blankets and mats are generally not suitable for excessively rocky sites or areas where the final vegetation will be mowed (because staples and netting can catch in mowers).
- Plastic sheeting is easily vandalized, easily torn, photodegradable, and must be disposed of at a landfill.
- Non-degradable fabrics must generally be removed when permanent stabilization measures are ready to be installed. Failure to move these materials creates trash that may be environmentally harmful and may result in littering fines.
- Plastic results in 100 percent runoff, which may cause serious erosion problems in the areas receiving the concentrated sheet flow.
- The use of plastic should be limited to covering stockpiles, or very small graded areas for short periods of time (such as through one imminent storm event), until alternative measures, such as seeding and mulching, may be installed.
- Geotextiles, mats, plastic covers, and erosion control covers have maximum flow rate limitations. The manufacturer shall be consulted for proper selection.

Material Selection

There are many types of erosion control blankets and mats, and selection of the appropriate type shall be based on the specific type of application and site conditions.

Geotextiles

- A wide variety of Geotextiles are available, dependent on their intended uses which range from separation of different materials (such as road bedding and underlying soils) to lining ponds and landfills. For temporary erosion control, geotextile fabrics typically consist of woven or non-woven fabrics that are used to line channels or slopes and are usually used in combination with rock or other mulches or riprap.
- Geomembrane is a more impervious type of geotextile and can be used to cover stockpiles or bare soil areas, where a more durable material (as compared to plastic sheeting) is desired. The use of geomembranes for this application will likely be very limited due to their higher costs.
- Geotextiles should be secured in place with wire staples or sandbags and by keying into tops of slopes and edges to prevent infiltration of surface waters under Geotextile. Staples shall be made of 0.12-inch steel wire and shall be U-shaped with 8-inch legs and 2-inch crown.
- Geotextiles may be reused if, in the opinion of the Engineer, they are suitable for the use intended.

Plastic Covers

- Plastic sheeting shall have a minimum thickness of 6 millimeters and shall be keyed in at the top of slope and firmly held in place with sandbags or other weights placed no more than 10 feet apart. Seams are typically taped or weighted down their entire length, and there shall be at least a 12 to 24 inches overlap of all seams. Edges shall be embedded a minimum of 6 inches in soil.

- Any sheeting failures shall be repaired immediately. If washout or breakages occur, the material shall be re-installed after repairing the damage to the slope.

Erosion Control Blankets/Mats (Rolled Erosion Control Products)

Degradable rolled erosion control products (RECPs) are typically composed of jute fibers, curled wood fibers, straw, coconut fiber, or a combination of these materials. In order for an RECP to be considered 100 percent degradable, the netting, sewing or adhesive system that holds the biodegradable mulch fibers together must also be degradable.

- **Jute** is a natural fiber that is made into a yarn that is loosely woven into a biodegradable mesh. It is designed to be used in conjunction with vegetation and has longevity of approximately 1 year. The material is supplied in rolled strips, which shall be secured to the soil with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Excelsior (curled wood fiber)** blanket material shall consist of machine-produced mats of curled wood excelsior. The excelsior blanket shall be of consistent thickness. The wood fiber shall be evenly distributed over the entire area of the blanket. The top surface of the blanket shall be covered with a photodegradable extruded plastic mesh. The blanket shall be smolder-resistant without the use of chemical additives and shall be non-toxic and non-injurious to plant and animal life. Excelsior blanket shall be furnished in rolled strips.
- **Straw blanket** shall be machine-produced mats of straw with a lightweight degradable netting top layer. The straw shall be attached to the netting with degradable thread or glue strips. The straw blanket shall be of consistent thickness. The straw shall be evenly distributed over the entire area of the blanket. Straw blanket shall be furnished in rolled strips.
- **Wood fiber blanket** is composed of biodegradable fiber mulch with extruded plastic netting held together with adhesives. The material is designed to enhance revegetation. The material is furnished in rolled strips, which shall be secured to the ground with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Coconut fiber blanket** shall be machine-produced mats of 100 percent coconut fiber with degradable netting on the top and bottom. The coconut fiber shall be attached to the netting with degradable thread or glue strips. The coconut fiber blanket shall be of consistent thickness. The coconut fiber shall be evenly distributed over the entire area of the blanket. Coconut fiber blanket shall be furnished in rolled.
- **Coconut fiber mesh** is a thin permeable membrane made from coconut or corn fiber that is spun into a yarn and woven into a degradable mat. It is designed to be used in conjunction with vegetation and typically has longevity of several years. The material is supplied in rolled strips, which shall be secured to the soil with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Straw coconut fiber blanket** shall be machine-produced mats of 70 percent straw and 30 percent coconut fiber with a degradable netting top layer and a degradable bottom net. The straw and coconut fiber shall be attached to the netting with degradable thread or glue strips. The straw coconut fiber blanket shall be of consistent thickness and shall be

evenly distributed over the entire area of the blanket. Straw coconut fiber blanket shall be furnished in rolled strips.

Non-degradable RECPs are typically composed of polyethylene, polypropylene, nylon, or other synthetic fibers. In some cases, a combination of degradable and synthetic fibers is used to construct the RECP. Netting used to hold these fibers together is typically non-degradable as well.

- **Plastic netting** is a lightweight biaxially-oriented netting designed for securing loose mulches like straw or paper to soil surfaces to establish vegetation. The netting is photodegradable. The netting is supplied in rolled strips, which shall be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Plastic mesh** is an open-weave geotextile that is composed of an extruded synthetic fiber woven into a mesh with an opening size of less than 2 inches. It is used with revegetation or may be used to secure loose fiber such as straw to the ground. The material is supplied in rolled strips, which shall be secured to the soil with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Synthetic fiber with netting** is a mat that is composed of durable synthetic fibers treated to resist chemicals and ultraviolet light. The mat is a dense, three-dimensional mesh of synthetic (typically polyolefin) fibers stitched between two polypropylene nets. The mats are designed to be revegetated and provide a permanent composite system of soil, roots, and geomatrix. The material is furnished in rolled strips, which shall be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Bonded synthetic fibers** consist of a three-dimensional geomatrix nylon (or other synthetic) matting. Typically, it has more than 90 percent open area, which facilitates root growth. Its tough root-reinforcing system anchors vegetation and protects against hydraulic lift and shear forces created by high volume discharges. It can be installed over prepared soil, followed by seeding into the mat. Once vegetated, it becomes an invisible composite system of soil, roots, and geomatrix. The material is furnished in rolled strips that shall be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.
- **Combination synthetic and biodegradable RECPs** consist of biodegradable fibers, such as wood fiber or coconut fiber, with a heavy polypropylene net stitched to the top and a high-strength continuous-filament geomatrix or net stitched to the bottom. The material is designed to enhance revegetation. The material is furnished in rolled strips, which shall be secured with U-shaped staples or stakes in accordance with manufacturers' recommendations.

Qualified Products List Criteria

All rolled erosion control products shall meet the State of Idaho State Department of Agriculture Seed Laboratory or the North American Weed Management Association (NAWMA) noxious weed-free certification requirements prior to approval.

All RECPs shall:

- Have independent test results submitted shall be from either the National Transportation Product Evaluation Program (NTPEP) or an approved equivalent laboratory.

Site Preparation

- Prepare the site properly to ensure complete contact of the blanket or matting with the soil.
- Grade and shape the area of installation.
- Remove all rocks, clods, vegetation, or other obstructions so that the installed blankets or mats will have complete, direct contact with the soil.
- Prepare seedbed by loosening 2 to 3 inches of topsoil. When using a fabric or mat that is designed to be used in conjunction with seeding or revegetation, follow the manufacturer's guidelines for proper seedbed preparation, seed application, and/or planting.

Seeding

Seed the area before blanket installation for erosion control and revegetation. Seeding after mat installation is often specified for turf reinforcement application. When seeding prior to blanket installation, all check slots and other areas disturbed during installation must be re-seeded. Where soil filling is specified, seed the matting and the entire disturbed area after installation and prior to filling the mat with soil.

Anchoring

- U-shaped wire staples, metal geotextile stake pins, or triangular wooden stakes can be used to anchor mats and blankets to the ground surface.
- Wire staples and metal stakes shall be driven flush to the soil surface.
- All anchors shall be a minimum of 6 inches long and have sufficient penetration to resist pullout. Longer anchors may be required for loose soils as determined by the responsible party or by manufacturer's installation guidelines.

Installation on Slopes

Installation shall be in accordance with the manufacturer's recommendations or ITD Standard Drawing P-2-C.

Installation in Channels

Installation shall be in accordance with the manufacturer's recommendations or ITD Standard Drawing P-2-C.

Soil Filling (if specified for turf reinforcement)

- Always consult the manufacturer's recommendations for installation.
- Do not drive tracked or heavy equipment over mat.
- Avoid any traffic over matting if loose or wet soil conditions exist.
- Use shovels, rakes, or brooms for fine grading and touch up.
- Smooth out soil filling, just exposing top netting of mat.

Blanket Removal

When no longer required for work, non-degradable temporary blankets shall be removed from the site and disposed.

Maintenance and Inspection

- Inspections shall be conducted as required by the NPDES permit or contract specifications.
- Areas treated with temporary geotextiles, mats, blankets, and other covers shall be maintained to provide adequate erosion control. Any failures shall be repaired immediately.
- If washout or breakage occurs, reinstall the material after repairing the damage to the slope or channel.

BMP 52.00 & 53.00. Permanent Seeding and Soil Amendments

DESIGN CONSIDERATIONS

Objectives

Permanent Seeding is an erosion control measure intended to establish a perennial vegetation cover and provide full stabilization of a disturbed area. Protecting the soil with well-established perennial stands of grass, or other forms of vegetation, is one of the most effective methods of reducing erosion.

Soil amendments are commonly used in conjunction with Permanent Seeding to improve the soil. Application of the appropriate soil amendment(s) should reduce the potential for soil erosion and restore the health of the soil by improving soil structure. Amending the soil structure will improve the soil's water-holding capacity; and improve the infiltration rate and the ability to support vegetation.

Description

Permanent Seeding is applied to areas where construction has permanently ceased. The seed mix should be composed of several species and designed to establish a permanent perennial stand of vegetation that can survive in the area. Permanent Seeding should be accompanied by surface preparation, surface roughening, fertilizers, and mulch. Surface preparation and roughening enhance seed retention and germination, fertilizer boosts initial growth, and mulch retains moisture.

Soil amendments include topsoil, compost, shredded bark or wood chips, peat, biofertilizers, and mycorrhizae. Most soil amendments, except biofertilizers and mycorrhizae, should be tilled or blended into the soil.

Other Names

Permanent Seed Stabilization, Seeding with Soil Amendments, Compost Blanket with Seeding, Bonded Fiber Matrix with Seeding, Topsoil, and Seed.

Applicability

Permanent Seeding is a final stabilization measure that is generally required for all disturbed areas that are not otherwise stabilized (by paving, structures, landscaping, etc.). It should be completed in areas where ground disturbing activities have permanently ceased.

Seeding with soil amendments provides an additional control where the soil needs to be treated to support a stabilized vegetative mat. Soil amendments should be provided in areas where the soil is highly erodible and/or has poor nutrient content or structure. For example, a sandy soil needs organic matter added in order to increase the water and nutrient holding capacity.

Selection Considerations

- *Seed:* The designer should specify appropriate seed species based on the climatic and environmental conditions. The Alaska Department of Natural Resources (DNR) Plant Material Center manuals provide guidance for revegetation in Alaska, and include the *Revegetation Manual for Alaska, Interior Alaska Revegetation and Erosion Control Guide*, and the *Coastal Revegetation and Erosion Control Guide*. These manuals give recommended seeding species and planting dates. The dates to apply seed are dependent on the climatic conditions of the project location. These dates should be provided in the special provisions for each project.
- *Soil Amendments:* Soil amendments should be selected to increase the infiltration rate of water; improve the soil's fertility, texture, and structure; aid in the uptake of nutrients; help to stabilize the soil; aid in seed germination; increase microbial activity; and promote vegetation establishment.

When considering a soil amendment, the designer should consider how the amendment will improve the soil properties; such as the organic content and textural class, how long the amendment must remain in the soil, and the climate and ecology of the area

Relationship to Other Erosion and Sediment Control Measures

With or without soil amendments, seeding can be used alone but it is likely that other measures should be considered to protect and support seed establishment. Construction stormwater management control measures should be used up-gradient to prevent potential washouts. Sediment

control measures should be used to prevent the release of sediments to and from the treated area.

Design

Seed Selection and Application Rate: Seed mix species should be carefully considered for each project. Several mixes may be applicable for a project depending on proximity to wetlands, roadways, and various microclimates in the general environment. The Alaska Plant Materials Center can assist with selecting species for all types of environments found in Alaska. Typically, seeds are applied at 20 - 40 lbs./acre, although site-specific conditions can affect how much seed needs to be applied. Add 30 percent to the quantity if surface roughening is required.

Fertilizer and Application Rate: Fertilizer should be used when establishing new seed. It is best to test the soils for existing nutrient content and pH to determine the appropriate fertilizer. If testing cannot be done until slopes are finished, then require a fertilizer application rate of 450 lb./acre of 20-20-10 (percent nitrogen-phosphorus-potassium) as an interim placeholder in the bid documents and the Engineer should adjust the fertilizer rate based on the test results.

Mulch: Mulch should be used when establishing new seed. Mulch helps to hold the seed to the soil surface and helps to retain moisture during seed germination. The application rate for mulching during seeding is approximately 2,000 to 4,500 lbs./acre, depending on the steepness of slopes. On slopes steeper than 3:1, tackifier should be added to the mulch (BMP 57).

Soil Stabilizer. For steeper slopes or more erodible soils, hydraulic erosion control products (HECP, BMP 51) can be considered for additional soil stabilization.

Soil Testing: This is recommended when there is uncertainty regarding the fertilizer application rate or when there are risk factors for successful grass growth. It is possible to require the contractor to sample soils, but it may be preferable to have trained Alaska Department of Transportation & Public Facilities (ADOT&PF) staff collect soil samples for laboratory analyses. If it is feasible to test the soils for their pH and nutrients, then the Project Engineer is able to change the fertilizer requirement according to the test results. The existing soil or imported

topsoil can be tested to identify the soil's composition of organic matter, macro nutrients, soil texture, and pH. For more information, contact the regional stormwater specialist. Add a special provision if you determine that the contractor should test the soil once graded.

Soil Amendment Options: There are many different soil amendments in addition to fertilizer that can be applied to a project. Selecting a soil amendment can depend on location of a project and availability of the amendment. These soil amendments include the following:

- *Topsoil:* When used as a soil amendment, topsoil should be tilled or blended into the existing soil.
- *Compost:* Compost should comply with the U.S. Composting Council Testing Methods and with specified gradation for each project. Compost can be applied to almost any soil. Compost can be used in wet climates or in the wet season, whereas topsoil or other soil amendments may be prone to erosion. When used as a soil amendment, compost should be tilled or blended into the existing soil.
- *Shredded Bark or Wood Chips:* Although the composition of bark or wood chip will vary per application, material should not contain any materials that would inhibit or stunt vegetation growth. All material should be kept moist prior to the application of seed. When used as a soil amendment, shredded bark or wood chips should be tilled or blended into the existing soil before seeding.
- *Peat:* Peat can be used as a soil amendment when the existing soil texture is sandy. Application of peat will enhance the existing soil by providing organics and increase the water holding capacity. Peat may be applied to the surface or tilled or blended into the soil. It should be applied at a thickness of 1 to 2 inches and, if specified, tilled or blended into the top 4 to 6 inches of the existing soil. When tilled or blended in, the peat composition should be approximately 15 to 25 percent of the soil.

Peat is naturally acidic. The existing soil should be tested for pH levels so the appropriate quantities of peat can be applied. Over-

application could result in limited growth of some seed species.

- **Biofertilizers and Mycorrhizae:** Biofertilizers and mycorrhizae are soil amendments that can be used to increase the success and shorten the establishment period of vegetation. When applied, biofertilizers and mycorrhizae help to rebuild living soil that has become damaged during earthwork. Biofertilizers and mycorrhizae help to increase microbial activity in soil resulting in increased nutrient availability to plant roots.

Common Failures or Misuses

Common failures are generally due to faulty application and maintenance. These failures include:

- Seed and slurry mix is not applied with a multi-directional flow or is applied at an inadequate application rate, resulting in non-uniform coverage or stabilization.
- The mulch, tackifier, or HECF (including bonded fiber matrix) used is inadequate to hold seed on slopes, resulting in erosion and washouts.
- Temporary seed, if not appropriately removed, may inhibit growth of permanent grass.
- Seed is not properly or adequately irrigated.
- Seed is floated away due to over-irrigation or by excessive rainfall.
- Seeded areas are disturbed by foot traffic and/or equipment after installation.
- Treated areas are compacted after the seed and amendments are applied.
- Soil amendments are inadequate to support seed growth.
- Supportive Construction Water Management or Sediment Control best management practices (BMPs) are not installed or maintained correctly.
- Fertilizer application is inadequate.
- Fertilizers with high, or quick-release, phosphorus content are used with biofertilizer and mycorrhizal soil amendments.

- Fungicides are used on or around areas that have received biofertilizers and mycorrhizal amendments.
- Inadequate quantities of amendments containing biofertilizers and mycorrhizae are applied.
- Seeding is applied too late in the season, resulting in limited growth and germination prior to freeze up.

SPECIFICATIONS

Standard Specifications

- 652 - Soil Amendments
- 650 - Compost Blanket
- 651 - Hydraulic Erosion Control Products
- 620 - Topsoil
- 712.201 - Water
- 724 - Seed
- 725 - Fertilizer
- 752 – Tackifier
- 750 – Compost
- 753 – Soil Amendments
- 751 Hydraulic Erosion Control Products

BMP 42.00. Vehicle/Equipment Storage, Maintenance and Fueling

SPECIFICATIONS

Objectives

Minimize or eliminate the discharge of pollutants and hazardous materials into storm drain systems, waters of the U.S., or groundwater.

Applicability

- Procedures and practices are used where on-site storage, maintenance, and fueling takes place.
- When practical, storage, maintenance, and fueling must be done off-site.

GENERAL VEHICLE/EQUIPMENT PRACTICES

- Designate areas to be used for storage, washing, maintenance, and fueling of equipment and vehicles. Locate these areas as far away from stormwater drainage systems and waters of the U.S. as practicable. Use paved surfaces if practicable.
- Provide appropriate perimeter best management practices (BMPs) to divert clean stormwater run-on from the storage, maintenance, or fueling area and to protect stormwater from maintenance area run-off (i.e. berms, silt fence or fiber rolls.)
- Place drip pans or absorbent pads under vehicles or equipment to contain potential drips or leaks that may develop during storage, maintenance, or fueling.
- Have drip pans, absorbent pads, and spill kits located near or within the storage, maintenance or fueling area.
- Properly dispose of any used absorbent pads or any wastes collected in drip pans.
- Check ground under vehicles and equipment for evidence of leaks or drips.
- Clean up any leaks, spills, or contaminated surfaces immediately. Use absorbent pads to clean small spills and properly dispose of used pads.
- Make sure spill kit is adequately stocked and replace used supplies promptly.

- Check perimeter BMPs according to their specified inspection guidelines.

VEHICLE/EQUIPMENT STORAGE

Description

If overnight storage of vehicles and equipment on-site is necessary, follow these procedures:

Procedures

- Inspect vehicles and equipment to be stored on-site for leaks. If leaks are found, either immediately repair the leak or contain the leak and repair as soon as possible.

VEHICLE/EQUIPMENT MAINTENANCE

Description

If maintenance or washing of vehicles and equipment on-site is necessary, follow these procedures:

Procedures

- Store waste fluids in labeled, sealable, leak-proof containers. Check containers used to store waste fluids and other liquids used for maintenance to make sure they are sealed and free of leaks.
- Properly dispose of fuels, lubricants, and other materials used for maintenance in accordance with manufacturer's instructions and state, federal, and local regulations.
- Any maintenance materials stored on-site must be protected from exposure to precipitation. Use secondary containment designed to prevent spills or leaked chemicals from mixing with stormwater.
- Detergents, soaps and solvents are prohibited from use by the CGP for any equipment washing.
 - All wash water must be treated through an appropriate control measure (i.e. sediment basin or equivalent) prior to discharge to stormwater drainage systems or waters of the U.S.

- Check vehicles and equipment for excess buildup of oil and grease. Clean vehicle or equipment and properly dispose of excess oil and grease.

VEHICLE/EQUIPMENT FUELING

Description

If fueling on-site is necessary, follow these procedures:

Procedures

- Fuel on a level grade area as far away from stormwater drainage systems and waters of the U.S., as practicable.
- Place drip pans or absorbent pads under vehicles or equipment to contain drips or leaks.
- Have drip pans, absorbent pads, and spill kits located nearby.
- During mobile fueling of equipment, properly protect the fueling hose from any damage.
- Fueling operations shall be attended at all times.
- Automatic shut-off nozzles are preferred. Do not “top off” fuel tanks. Leave adequate space for fuel expansion and movement in the tank while equipment is in operation.

WM-6 SOLID WASTE MANAGEMENT



BMP Objectives

- Perimeter Control
- Slope Protection
- Borrow and Stockpiles
- Drainage Areas
- Sediment Trapping
- Stream Protection
- Temporary Stabilizing
- Permanent Stabilizing

Definition and Purpose

Solid waste management procedures and practices are designed to minimize or eliminate the discharge of pollutants to the drainage system or to watercourses as a result of the creation, stockpiling, or removal of construction site and domestic wastes.

Appropriate Applications

Solid waste management procedures and practices are implemented on all construction projects that generate solid wastes.

Solid wastes include but are not limited to:

- Construction wastes including brick, mortar, timber, steel and metal scraps, sawdust, pipe and electrical cuttings, non-hazardous equipment parts, and Styrofoam and other materials used to transport and package construction materials.
- Highway planting wastes, including vegetative material, plant containers, and packaging materials.
- Litter, including food containers, beverage cans, coffee cups, paper bags, plastic wrappers, and smoking materials, including litter generated by the public.

Limitations

It may be difficult to schedule waste disposal at projects located in remote areas.

General Considerations

The Contractor's Water Pollution Control Manager (WPCM) shall oversee, schedule, and enforce proper solid waste procedures and practices.

Education

- Instruct employees and subcontractors on identification of solid and hazardous waste.
- Educate employees and subcontractors on solid waste storage and disposal procedures.
- Hold regular meetings (or incorporate into regular safety meetings) to discuss and reinforce disposal procedures.

- Require that employees and subcontractors follow solid waste handling and storage procedures.
- Prohibit littering by employees, subcontractors, and visitors.
- Promote good housekeeping practices on all sites.
- Wherever possible, minimize production of solid waste materials.

Collection, Storage, and Disposal

- Dumpsters of sufficient size and number shall be provided to contain the solid waste generated by the project and properly serviced.
- Littering is prohibited.
- To prevent clogging of the storm drainage system, litter and debris removal from drainage grates, trash racks, and ditch lines shall be a priority.
- Trash receptacles shall be provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.
- Construction debris and litter from work areas within the construction limits of the project site shall be collected and placed in dumpsters at least weekly regardless of whether the litter was generated by the Contractor, the public, or others. Collected litter and debris shall not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.
- Full dumpsters shall be removed from the project site and the contents shall be disposed of properly. Clean up immediately if containers overflow.
- Litter stored in collection areas and containers shall be handled and disposed of by trash-hauling contractors.
- Construction debris and non-hazardous waste shall be removed from the site regularly or as directed by the Engineer.
- Construction material visible to the public shall be stored or stacked in an orderly manner to the satisfaction of the Engineer.
- Stormwater run-on shall be prevented from contacting stored solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces.
- Solid waste storage areas shall be located at least 50 feet from drainage facilities and watercourses and shall not be located in areas prone to flooding or ponding.
- Except during fair weather, construction and highway planting waste not stored in dumpsters shall be securely covered with tarps or plastic sheeting. .
- Dumpster washout on the project site is not allowed.
- Trash-hauling contractors shall be notified that only dumpsters are acceptable for use on-site.

- Additional containers and more frequent pickups will likely be needed during the demolition phase of construction.
- Construction waste shall be stored in a designated area approved by the Engineer.
- Potentially hazardous waste shall be segregated from non-hazardous construction site waste.
- The site shall be kept clean of litter debris through good housekeeping practices.
- Toxic liquid wastes (e.g., used oils, solvents, and paints) and chemicals (e.g., acids, pesticides, additives, and curing compounds) shall not be disposed of in dumpsters designated for construction debris.
- WM-7 (Hazardous Waste Management) contains information on disposal of hazardous waste. Hazardous waste shall be removed to an appropriate disposal and/or recycling facility by a licensed contractor.
- Useful vegetation debris, packaging, and/or surplus building materials shall be salvaged or recycled when practical. For example, trees and shrubs from land clearing can be converted into wood chips, then used as mulch on graded areas. Wood pallets, cardboard boxes, and construction scraps can also be recycled.

Maintenance and Inspection

- Inspections shall be conducted as required by the NPDES permit or contract specifications.
- The WPCM shall monitor on-site solid waste storage and disposal procedures.
- The site shall be policed for litter and debris.

BMP AK-1
Preservation of Existing Vegetation

Purpose and Description

- The purpose of preserving existing vegetation is to limit site disturbance and to minimize soil erosion by identifying and protecting pre-existing vegetation on the construction site.¹

Applicability

- Natural vegetation must be preserved in all areas where no construction is planned or will occur at a later date.
- Clear only land that is needed for building activities or vehicle traffic.²
- This BMP is not to supersede existing guidelines, restrictions or law, preserve vegetation as required by local governments (such as stream buffers).
- The preservation of existing vegetation is an applicable practice in all regions and climates in Alaska.

Design and Installation

- Before any clearing begins, vegetation selected for preservation must be clearly marked with established barriers.³ These barriers must be about 1 meter in height, must be highly visible and be anchored by wood or metal fence posts at spacing and depth that will adequately support the fence for the entirety of the project.¹

- A site map must be prepared clearly outlining all areas of vegetation that is to be preserved.²
- Vehicle traffic, equipment storage and parking shall be kept away from these areas to prevent soil and root compaction.¹
- Ground disturbance must be kept from these areas at least as far out as the leaf drip line.³
- Maintain pre-existing irrigation systems that may supply water to vegetation selected for preservation.¹
- To increase chances of survival it is best to limit grade changes in these areas and areas within the drip line.³

Maintenance and Inspection

- Repair or replace damaged vegetation immediately.²
- Inspect preservation areas regularly, if barrier has been removed or visibility reduced repair or replace barrier so that visibility is restored.³
- If roots are exposed or damaged, prune ends just above damage with pruning shears or loppers and recover with native soil.³

References

¹Caltrans Storm Water Quality Handbooks, March 2003, Construction Site Best Management Practices Manual, SS-2 Preservation of Existing Vegetation, http://www.dot.ca.gov/hq/construc/storm_water/CSBMPM_303_Final.pdf

(Continued on next page)

²USEPA (United States Environmental Protection Agency), October 2000, National Menu of Best Management Practices, Preserving Natural Vegetation,
<http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=browse&Rbutton=detail&bmp=34&minmeasure=4>

³Washington State Department of Ecology, February 2005, Storm Water Management Manual for Western Washington, Construction Storm Water Pollution Prevention, BMP C101: Preserving Natural Vegetation,
<http://www.ecy.wa.gov/pubs/0510030.pdf>

BMP 10.00.a. Fiber Rolls for Erosion Control

DESIGN CONSIDERATIONS

Objectives

The purpose of Fiber Rolls for Erosion Control is to shorten the slope and help to slow, filter, and spread overland flows. They capture sediment, organic matter, and seeds that might otherwise be washed downslope.

Description

Fiber Rolls are long rolls of material such as wood excelsior, rice or wheat straw, flax, coconut fibers, or compost, which is rolled or bound in a tight tubular roll and wrapped in plastic or biodegradable netting. They are typically about 8 inches in diameter and under 30 feet long.

They may come pre-fabricated or they can be fabricated on-site.

Other Names

Wattles, Straw Wattles, Straw Rolls, Coir Logs, Excelsior Log, Straw Log, Filter Logs, Fiber Logs.

Applicability

Fiber Rolls can be applied to steep or long slopes and slopes that are susceptible to freeze/thaw activity, sheet and rill erosion, or dry ravel. They can be placed along the toe, top, face, and at grade-breaks on disturbed or erodible slopes. They can be used as a temporary berm to direct flow around exposed soils or to a sediment trap and as a check dam in unlined ditches. They can be used at other locations at the project site for sediment control.

Selection Considerations

- Use in areas of low shear stress.
- Avoid use on slopes that could build up ice; for instance, where seepage occurs.
- They are effective for one to two seasons.
- Fiber Rolls can be staked to the ground using willow cuttings to increase the revegetation effort. Since the fiber roll will retain moisture, it will provide a good site for the willow cuttings to root. The Alaska Department of Fish and Game (ADF&G) has prepared guidance for willow cuttings and dormant cuttings in the

Streambank Revegetation and Protection: A Guide for Alaska at:

<http://www.adfg.alaska.gov/index.cfm?adfg=streambankprotection.staking>

and

<http://www.adfg.alaska.gov/index.cfm?adfg=streambankprotection.cuttings>

- The quantity of sediment that a roll can capture prior to maintenance is limited to one-half the exposed height of the roll.
- Rolls will be difficult to move once they are saturated. Determine whether Fiber Rolls must be removed at the end of the project based on the use of the area. If removal is required, specify in the plan set and require removal of netting upon final stabilization.

Relationship to Other Erosion and Sediment Control Measures

Fiber Rolls are best used in combination with seeding, mulch, hydraulic erosion control products (HECPs), and/or rolled erosion control products (RECPs). They can be used to stabilize slopes until the permanent vegetation becomes established.

Common Failures or Misuses

- Unless they are placed in a trench, run-off can flow underneath Fiber Rolls and cause failure.
- Unless they are properly staked, Fiber Rolls can be transported by high flows.
- Water can flow between Fiber Rolls if they are not overlapped.
- Fiber Rolls must be placed perpendicular to flow (parallel to the slope contour).
- Fiber Rolls will not work if the slope is slumping, creeping, or sliding.

SPECIFICATIONS

Standard Specification

- 669 – Fiber Rolls for Erosion and Sediment Control

Drawings

- BMP-10.00 Fiber Rolls for Erosion and Sediment Control
- BMPs -31.00, 32.00 and 33.00 Temporary Check Dam

BMP 10.00.b. Fiber Rolls for Sediment Control

DESIGN CONSIDERATIONS

Objectives

The purpose of Fiber Rolls for Sediment Control is to trap sediment and prevent it from being transported out of the project area, to another area, or to waters of the U.S.

Description

Fiber Rolls are long rolls of material such as wood excelsior, rice or wheat straw, flax, coconut fibers, or compost, which is rolled or bound in a tight tubular roll and wrapped in plastic or biodegradable netting. They are typically about 8 inches in diameter and under 30 feet long.

They may come pre-fabricated or they can be fabricated on-site.

Other Names

Wattles, Straw Wattles, Straw Rolls, Coir Logs, Excelsior Log, Straw Log, Filter Logs, Fiber Logs.

Applicability

Fiber Rolls can be placed at the perimeter of a project, below the toe of exposed and erodible slopes, and around temporary stockpiles. They may also be used for inlet protection. They can be used at other locations at the project site for erosion control.

Selection Considerations

- Use in areas of low shear stress.
- Avoid use on slopes that could build up ice; for instance, where seepage occurs.
- They are effective for one to two seasons.
- Fiber Rolls can be staked to the ground using willow cuttings to increase revegetation efforts. Since the Fiber Roll will retain moisture, it will provide a good site for the willow cuttings to root. The Alaska Department of Fish and Game has prepared guidance for willow cuttings and dormant cuttings in the *Streambank Revegetation and Protection: A Guide for Alaska* at:
<http://www.adfg.alaska.gov/index.cfm?adfg=streambankprotection.staking>

and

<http://www.adfg.alaska.gov/index.cfm?adfg=streambankprotection.cuttings>

- The quantity of sediment that a roll can capture prior to maintenance is limited to one-half the exposed height of the roll.
- Rolls will be difficult to move once they are saturated. Determine whether Fiber Rolls must be removed at the end of the project based on the use of the area. If removal is required, specify in the plan set and require removal of netting upon final stabilization.

Relationship to Other Erosion and Sediment Control Measures

Fiber Rolls are best used in combination with seeding, mulch, hydraulic erosion control products (HECPs), and/or rolled erosion control products (RECPs).

- Fiber Rolls can be used in place of silt fence. The advantage of fiber rolls over silt fence is that installation is much easier, they do not have to be removed, and hydroseeding can be done after their installation.
- Compost socks can be used in place of Fiber Rolls and do not require trenching. Compost socks are also heavy enough that they can be placed on paved surfaces.
- A prefabricated barrier system can be used in place of fiber rolls and requires a smaller trench. A prefabricated barrier system can also be adhered to paved surfaces.

Common Failures or Misuses

- Unless they are placed in a trench and have tamped backfill in the trench on the uphill side, runoff can flow underneath Fiber Rolls and cause failure.
- Unless they are properly staked, Fiber Rolls can be transported by high flows.
- Water can flow between Fiber Rolls if they are not overlapped.

- Fiber Rolls must be placed perpendicular to flow (parallel to the slope contour).
- Fiber Rolls will not work if the slope is slumping, creeping, or sliding.

SPECIFICATIONS

Standard Specification

- 669 – Fiber Rolls for Erosion and Sediment Control

Drawings

- BMP-10.00 Fiber Rolls for Erosion and Sediment Control
- BMP-08.00 Culvert Inlet Protection
- BMPs -25.00, 26.00, 27.00, 28.00 and 29.00 Storm Drain Inlet Sediment Protection

FIBER ROLL GENERAL NOTES:

MATERIALS

FIBER ROLLS: THE NETTING MAY BE UV-DEGRADABLE POLYPROPYLENE, BIODEGRADABLE BURLAP, JUTE OR COIR. THE FILLINGS MAY BE STRAW, FLAX, RICE, OR COCONUT-FIBER. MINIMUM DIAMETER OF 6 INCHES.

STAKES: 1-INCH BY 1-INCH WOODEN STAKES 24 INCHES LONG (18 INCHES IF SOILS ARE ROCKY) OR 3/8-INCH REBAR WITH SAFETY CAPS OR 3/4-INCH TO 1 1/2-INCH DIAMETER LIVE WILLOW CUTTINGS. IF USING LIVE WILLOW CUTTINGS, DO NOT INSTALL ROPE.

INSTALLATION

1. PLACE FIBER ROLLS PERPENDICULAR TO FLOW AND PARALLEL TO THE SLOPE CONTOUR.
2. AT THE END OF THE ROLL, TURN THE END UPSLOPE TO PREVENT RUN-OFF FROM GOING AROUND THE ROLL END.

INSPECTION

1. ENSURE THAT THE ROLLS ARE IN CONTACT WITH THE SOIL AND THOROUGHLY ENTRENCHED.
2. LOOK FOR SCOURING UNDERNEATH THE ROLLS.
3. LOOK FOR SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER ROLLS.
4. ENSURE EQUIPMENT HAS NOT DRIVEN OVER THE INSTALLED FIBER ROLLS.

MAINTENANCE

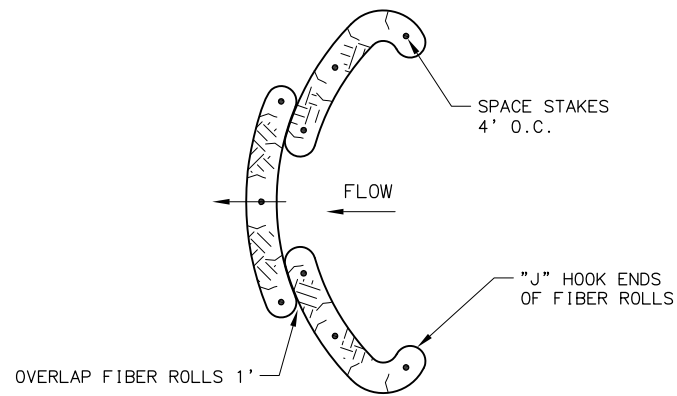
1. REPLACE DAMAGED SECTIONS OF FIBER ROLL.
2. REMOVE ACCUMULATED SEDIMENT UPSLOPE OF THE ROLL BEFORE IT REACHES ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE GROUND SURFACE. WHEN PROTECTING A WATER BODY OR STORM DRAIN INLET, REMOVE ACCUMULATED SEDIMENT UPSLOPE OF THE ROLL WHEN IT REACHES ONE-THIRD OF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE GROUND SURFACE.

REMOVAL

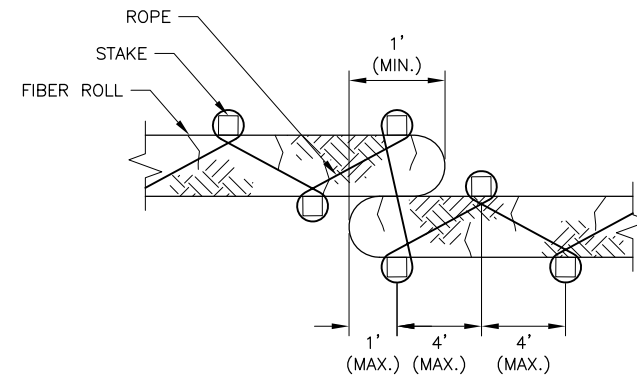
1. REMOVE FIBER ROLLS WHEN THE AREA IS STABILIZED OR WHEN THEY ARE NO LONGER NECESSARY.
2. COLLECT AND DISPOSE OF THE ACCUMULATED SEDIMENT.
3. REMOVE AND DISPOSE OF FIBER ROLLS.
4. FILL THE TRENCHES AND STAKE HOLES TO BLEND WITH THE ADJACENT GROUND AND REVEGETATE AS NECESSARY.

RETENTION

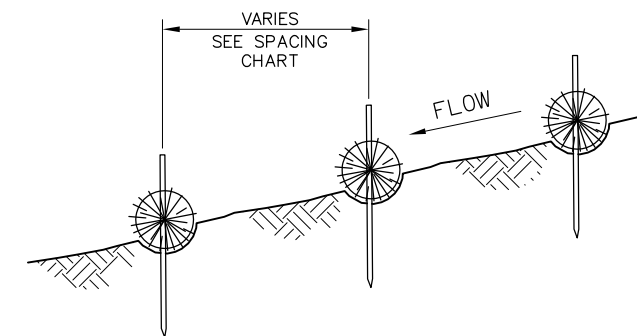
1. LEAVE FIBER ROLLS IN PLACE WHEN THE AREA IS STABILIZED OR WHEN THEY ARE NOT NECESSARY.
2. COLLECT AND DISPOSE OF THE ACCUMULATED SEDIMENT.
3. REMOVE AND DISPOSE OF THE NETTING, STAKES, AND ROPE.



PLAN



PLAN



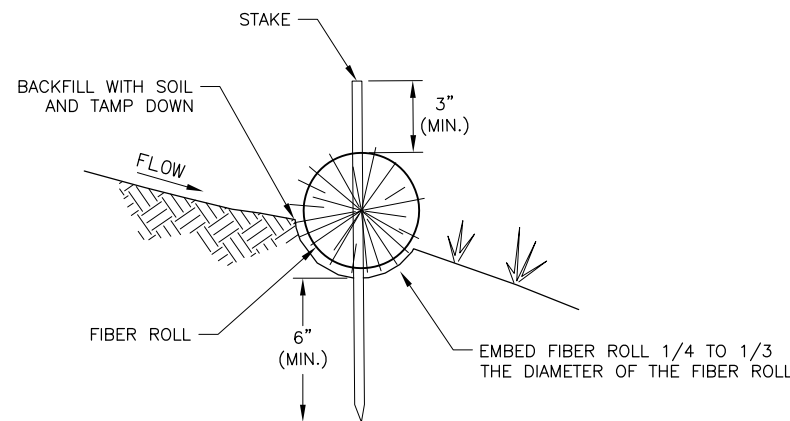
TYPICAL SPACING CHART	
SLOPE	SPACING (FEET)
1:1	10
2:1	20
3:1	30

SLOPE INSTALLATION

NOT TO SCALE

SLOPE INSTALLATION NOTES:

1. INSTALL ON A SLOPE TO SHORTEN THE SLOPE LENGTH.
2. START INSTALLATION DOWNSLOPE.
3. SPACE ROLLS ACCORDING TO THE SPACING CHART AND DECREASE SPACING ON MORE ERODIBLE SOILS AND INCREASE SPACING ON ROCKY SOILS.



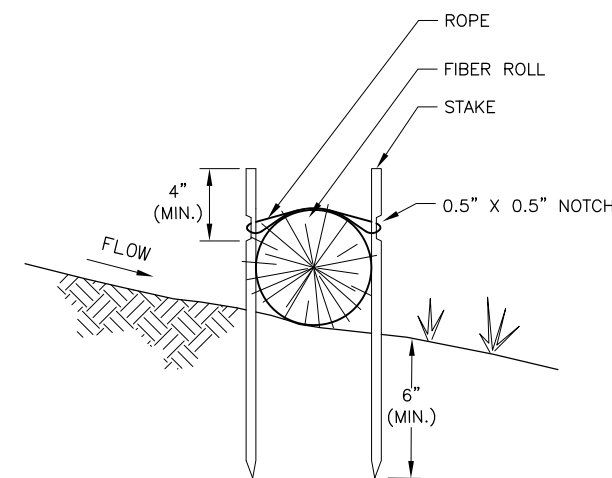
SECTION

TRENCHED INSTALLATION

NOT TO SCALE

TRENCHED INSTALLATION NOTES:

1. DIG TRENCHES AND PLACE FIBER ROLLS IN THE TRENCHES.
2. CURVE BACK THE UPSLOPE END OF THE FIBER ROLL IN A "J" HOOK.
3. SPREAD EXCAVATED MATERIAL EVENLY ALONG THE UPHILL SLOPE AND COMPACT USING HAND TAMPING OR OTHER METHODS.
4. STAKE THE ROLL EVERY 4 FEET AND WITHIN 1-FOOT OF THE ENDS. LEAVE 3 INCHES OF THE STAKE ABOVE THE ROLL.
5. DRIVE STAKES THROUGH THE MIDDLE OF THE FIBER ROLL.
6. IF REQUIRED, PILOT HOLES FOR THE STAKES MAY BE CREATED BY DRIVING A STRAIGHT BAR THROUGH THE ROLL.



SECTION

ROPE INSTALLATION

NOT TO SCALE

REVISIONS		
Date	Description	By

State of Alaska DOT&PF

FIBER ROLLS FOR EROSION AND SEDIMENT CONTROL

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BMP 25.00 – 29.00. Storm Drain Inlet Sediment Protection – Curb and Area Inlets

These instructions cover BMP 25.00, 26.00, 27.00, 28.00 and 29.00.

DESIGN CONSIDERATIONS

Objectives

Storm Drain Inlet Sediment Protection is used prior to permanent stabilization of the disturbed area to prevent sediment from entering downgradient storm drainage systems.

Description

Storm Drain Inlet Sediment Protection is a device or mechanism, either internal or external, for preventing sediment from entering a storm drain; generally by trapping sediment within or immediately adjacent to a storm drain inlet. Types of temporary protection devices applicable for different conditions are listed in the table. Prefabricated devices are available for internal and external applications.

Other Names

Storm Drain Inlet Protection, Filter Bag Insert, “Witch’s Hat,” Silt Sack

Applicability

Storm Drain Inlet Sediment Protection – Curb and Area Inlets are applicable when storm drain inlets must remain operational before permanent stabilization of the disturbed area and when there is potential for sediment to be transported into the storm drain system.

Selection Considerations

Internal devices generally consist of nonwoven, semi-porous material that traps larger sediment, but allows silt and clay-size particles to pass. They are most appropriate in situations where roadway flooding is a concern or where construction traffic will damage an external device.

External devices trap sediment by creating a ponding area surrounding or adjacent to the inlet, reducing velocities and allowing sediment to settle. This process allows external devices to be more efficient at trapping greater volumes of smaller sized sediment.

Curb inlets are distinguished from area inlets by their roadway edge location and proximity to traffic. Both are grated inlets, but whereas curb inlets are in-line with concrete curbing or curb and gutter features, area inlets are located in open areas and are generally surrounded by unpaved surfaces. These are also known as field inlets when they are permanent features, or they may be inlets in unpaved areas that will have paving around them as construction progresses.

Storm Drain Inlet Sediment Protection types applicable to curb inlets and area inlets are summarized in the following table:

Storm Drain Inlet Sediment Protection Types and Applicability Table

Storm Drain Inlet Sediment Protection Type	Applicability	
	Curb Inlet	Area Drain Inlet
External Sediment Protection		
Prefabricated Barrier System	Yes *	Yes
Gravel or Sand Bag Berm	Yes *	Yes
Fiber Roll	No	Yes
Filter Fabric (Silt Fence)	No	Yes
Inlet Grate Covers		
Filter Mat	No	Yes
Curb Face Mesh Filter	Yes	No
Internal Sediment Protection		
Filter Bag Insert	Yes	Yes
Sediment Control Inlet Hat	Yes	Yes
* If neither the sediment protection structure nor ponding will intrude into travel way		

- Fiber rolls and prefabricated barrier systems are not appropriate for locations where they cannot be properly anchored to the surface.
- Filter fabric (silt fence) as a sediment protection device is applicable to area inlets and for flows

less than 0.5 cubic feet per second (cfs) on flat grades (5 percent or less).

- Inlet grate filter mats are only applicable where heavy concentrated flows are not expected and are not applicable where ponding around the structure might cause excessive damage to adjacent structures and unprotected areas.
- Curb face inlet mesh filters for curb inlets prevent sediment from entering the inlet but they also require that runoff is bypassed. This sediment protection device should not be used at a sag inlet (an inlet at the lowest point on a vertical curve or in a depression); and, if used, conveyance to another point of discharge must be provided.

Any of these sediment protection devices may cause flooding affecting streets and the construction area. Where flooding would cause a hazard, consider where overflow will go in extreme events and provide emergency overflows with additional treatment.

Design

Drainage Area: Not to exceed 1 acre.

Slope Gradient: Not to exceed 5 percent.

Site and construct Storm Drain Inlet Sediment Protection in a manner that will facilitate cleanout and disposal of trapped sediment.

Design and construct the Storm Drain Inlet Sediment Protection in a manner that will allow flow to pass and to minimize ponding after the runoff has ceased.

Relationship to Other Erosion and Sediment Control Measures

Erosion and sediment control measures in the contributing areas must be in place to minimize the amount of sediment that must be treated at inlets. Storm Drain Inlet Sediment Protection is installed as a secondary measure to remove residual sediment that was not removed by other measures such as check dams, grassed swales, and sediment traps.

Common Failures or Misuses

- Sediment accumulation, by which filtering capacity is reduced, resulting in ponding of water.

- Improper installation, resulting in sediment bypassing filter and entering the inlet.
- Tearing, undermining, or collapsing of filter fabric, resulting in sediment entering the inlet.

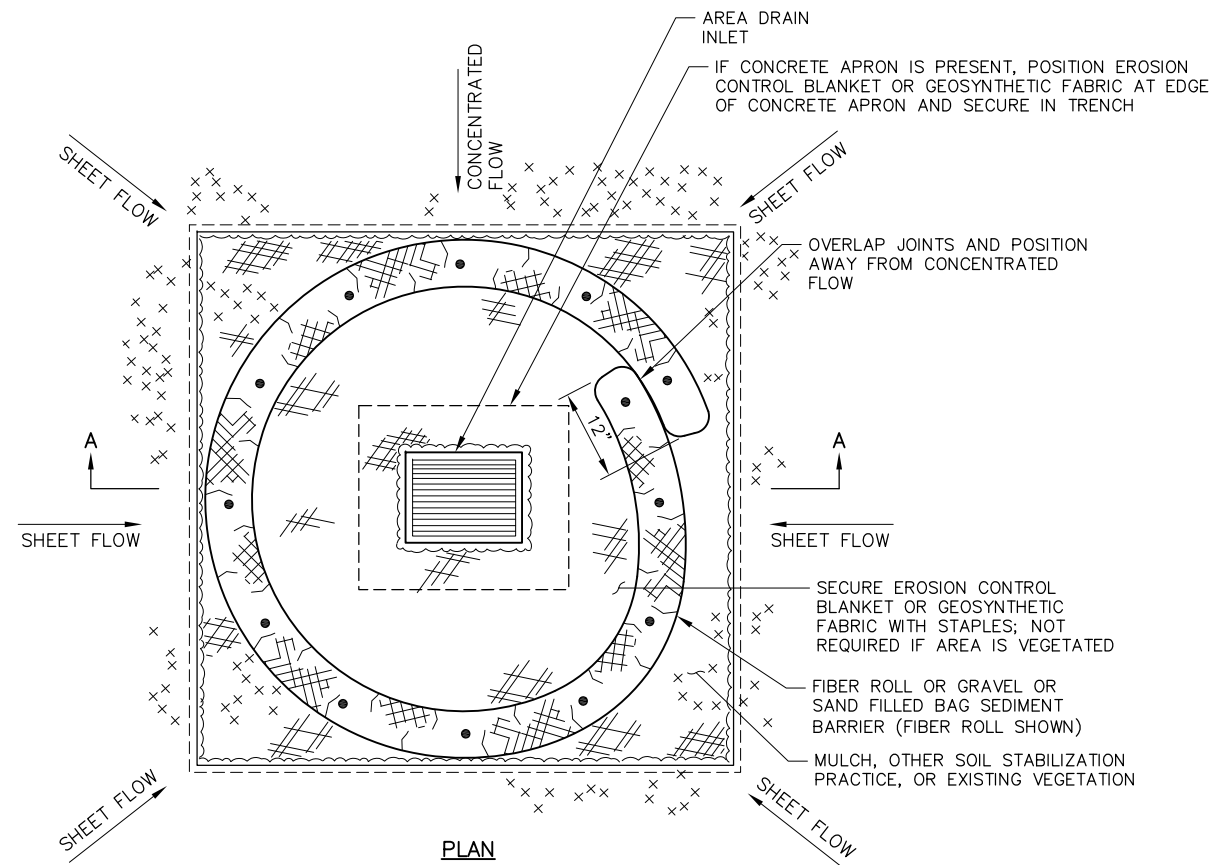
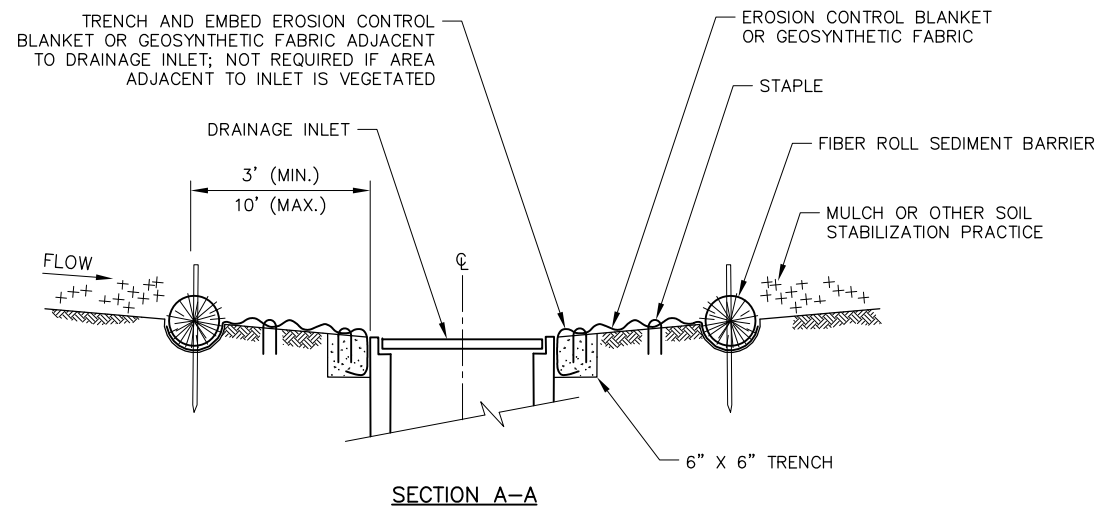
SPECIFICATIONS

Standard Specifications

- 683 – Storm Drain Inlet Sediment Protection
- 633 – Silt Fence
- 729-2.04 Geosynthetics

Drawings

- BMP-25.00 Storm Drain Inlet Sediment Protection (Sheets 1 of 5)
- BMP-26.00 Storm Drain Inlet Sediment Protection
- BMP-27.00 Storm Drain Inlet Sediment Protection
- BMP-28.00 Storm Drain Inlet Sediment Protection
- BMP-29.00 Storm Drain Inlet Sediment Protection
- BMP-13.00 Prefabricated Barrier System
- BMP-10.00 Fiber Rolls for Erosion and Sediment Control



**FIBER ROLL OR GRAVEL OR SAND BAG BERM
FOR AREA INLETS**
NOT TO SCALE

**FIBER ROLL OR GRAVEL OR SAND BAG BERM NOTES:
MATERIALS**

FIBER ROLL AND STAKES: SEE DRAWING BMP-10.00 FIBER ROLL FOR EROSION AND SEDIMENT CONTROL.

GRAVEL- OR SAND-FILLED BAG: TIGHTLY WOVEN BURLAP OR WOVEN GEOTEXTILE BAG MATERIAL THAT IS SUFFICIENTLY DURABLE TO REMAIN INTACT FOR THE TIME INTENDED. FILL BAGS 3/4 FULL OF GRAVEL OR SAND WITH A GRADATION SUCH THAT NO FINE SEDIMENT PASSES THROUGH THE BAG. IF THE SANDBAGS ARE NEEDED FOR MORE THAN ONE SUMMER SEASON, PROVIDE BAG MATERIAL THAT HAS ULTRAVIOLET STABILITY OF AT LEAST 70% IN CONFORMANCE WITH ASTM D4355 REQUIREMENTS. SECURELY CLOSE THE SAND BAGS.

PREFABRICATED UNITS: MAY BE USED IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING UPON APPROVAL BY THE ENGINEER.

INSTALLATION

1. IF PREFABRICATED BARRIERS ARE USED, INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

2. FIBER ROLL - SEE DRAWING BMP-10.00 [FIBER ROLL]

INSPECTION, MAINTENANCE, AND REMOVAL

1. SEE STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES, THIS SHEET.

**STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES:
INSTALLATION**

1. IF PREFABRICATED BARRIERS ARE USED, INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

INSPECTION

1. CHECK FOR SEDIMENT DEPTH. CLEANING IS REQUIRED WHEN SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE DESIGN DEPTH (OR LESS WHEN SPECIFIED BY THE MANUFACTURER OF PREFABRICATED BARRIERS).

2. CHECK FOR UNDERMINING OR BYPASSING, SUCH AS EVIDENCE THAT SEDIMENT IS ENTERING THE INLET OR THAT RUN-OFF IS BYPASSING THE BARRIER AND ENTERING THE INLET UNTREATED.

MAINTENANCE

1. IF PREFABRICATED BARRIERS ARE USED, MAINTAIN THEM AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

2. CORRECT UNDERMINING OR BYPASSING FAILURES.

3. REMOVE ACCUMULATED SEDIMENT BEFORE IT REACHES ONE-THIRD OF THE AVAILABLE STORAGE OF THE SEDIMENT PROTECTION DEVICE OR LESS WHEN SPECIFIED BY THE MANUFACTURER.

4. REMOVE AND DISPOSE OF ANY ROCK OR DEBRIS THAT HAS ACCUMULATED BEHIND THE SEDIMENT BARRIER TO PREVENT FURTHER CLOGGING.

5. REPLACE FRAYED OR TORN FABRIC OR MATERIALS AND REPAIR ANY STRUCTURAL DAMAGE AS SOON AS PRACTICABLE.

REMOVAL

1. LEAVE INLET SEDIMENT PROTECTION DEVICES IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA IS PERMANENTLY STABILIZED.

2. REMOVE AND DISPOSE OF TRAPPED OR REMAINING SEDIMENT.

3. STABILIZE DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF BARRIERS OR SEDIMENT.

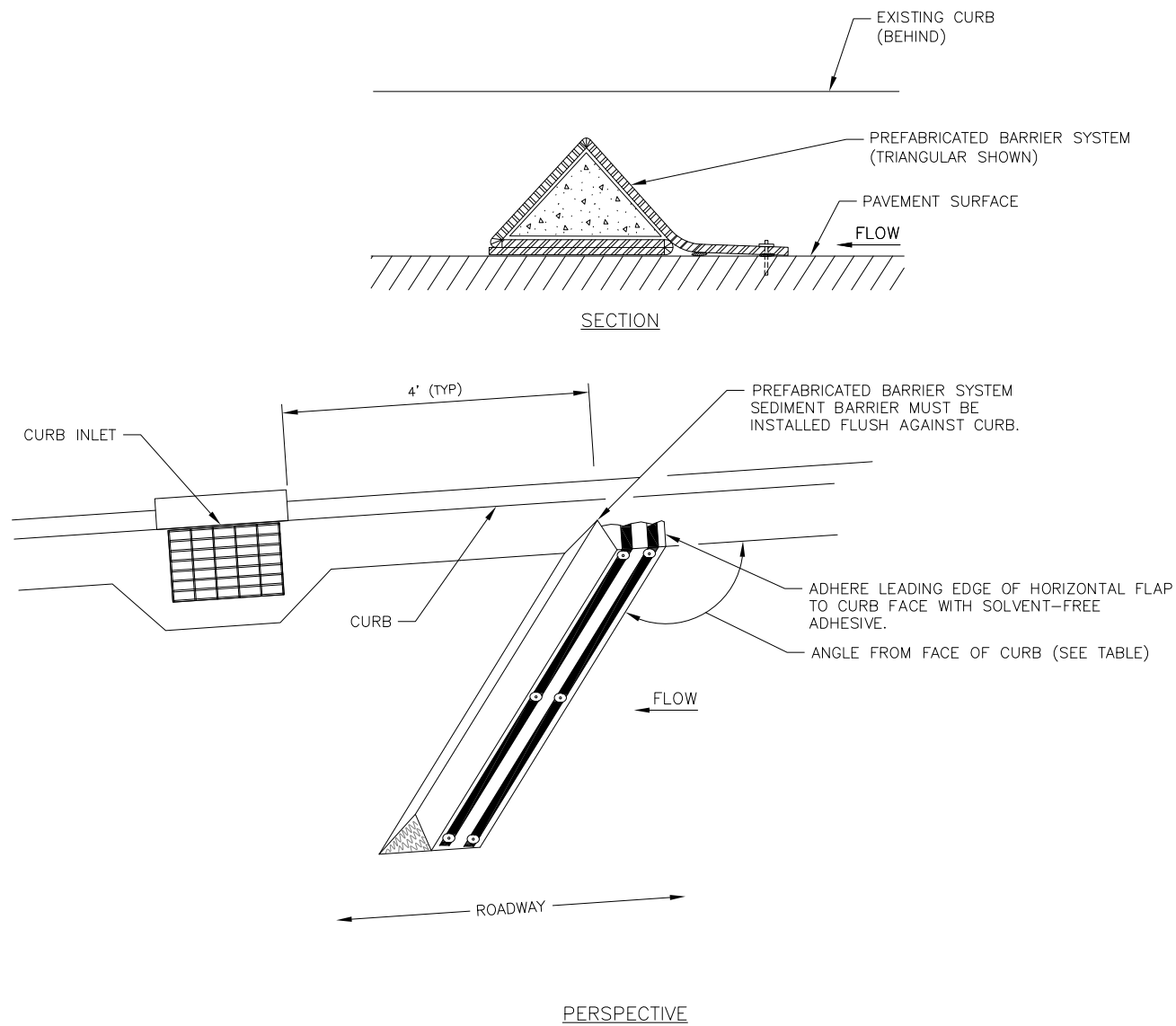
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State of Alaska DOT&PF
**STORM DRAIN INLET
SEDIMENT PROTECTION
(NOTES & AREA INLET FIBER ROLL
OR GRAVEL/SAND BAG BERM**

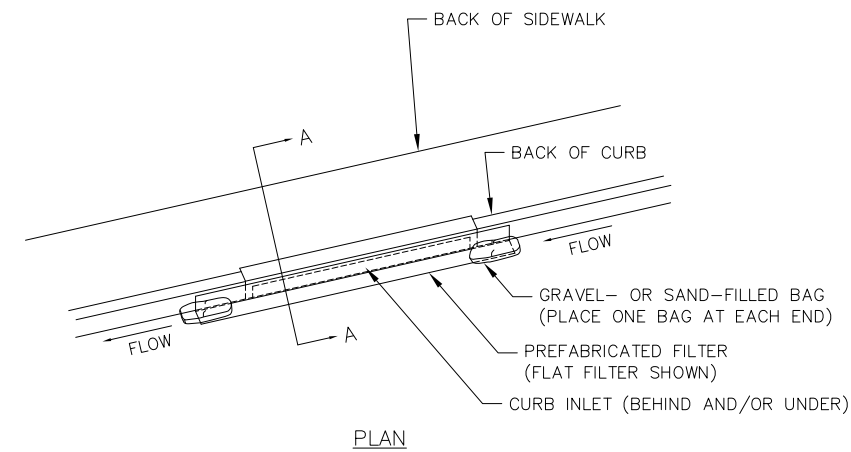
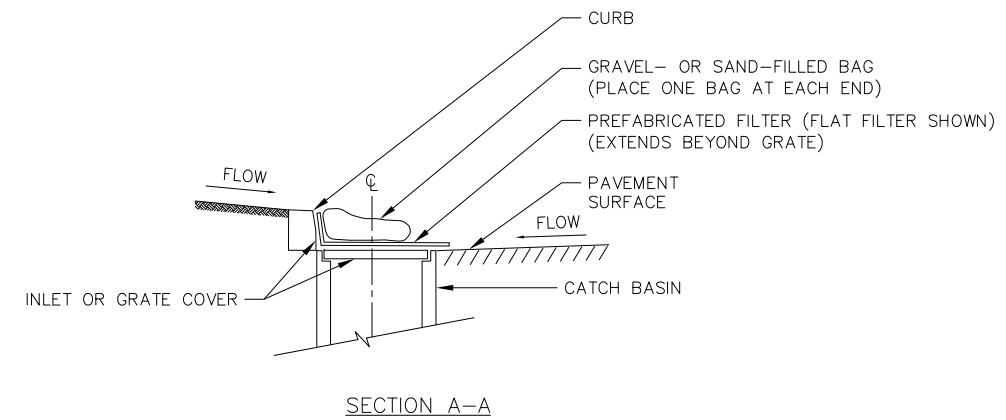
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PREFABRICATED BARRIER SYSTEM FOR CURB INLETS
NOT TO SCALE



CURB FACE INLET FILTER SYSTEM FOR CURB INLETS
NOT TO SCALE

CURB INLET PREFABRICATED BARRIER NOTES: MATERIALS

1. PREFABRICATED UNITS: UPON APPROVAL BY THE ENGINEER, USE IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING.

INSTALLATION

1. PREFABRICATED BARRIERS: INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.
2. PREFABRICATED BARRIER SYSTEM - SEE DRAWING BMP-13.00 PREFABRICATED BARRIER SYSTEM

INSPECTION, MAINTENANCE, AND REMOVAL

1. SEE STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES ON BMP-25.00 [STORM DRAIN INLET SEDIMENT PROTECTION (NOTES & AREA INLET FIBER ROLL OR GRAVEL/SAND BAG BERM)] NOTES FOR INSPECTION, MAINTENANCE, AND REMOVAL.

SLOPE OF ROADWAY (PERCENT)	0 TO 2.9	3 TO 5+
ANGLE FROM FACE OF CURB	70°	45°
SUGGESTED BARRIER LENGTH	4'	
SUGGESTED DISTANCE FROM INLET	4'	

CURB FACE INLET FILTER SYSTEM NOTES: MATERIALS

PREFABRICATED FILTER: LINEAR, FLAT OR TUBE SHAPED CURB INLET FILTER

GRAVEL- OR SAND-FILLED BAG: TIGHTLY WOVEN BURLAP OR WOVEN GEOTEXTILE BAG MATERIAL THAT IS SUFFICIENTLY DURABLE TO REMAIN INTACT FOR THE TIME INTENDED. FILL BAGS 3/4 FULL OF GRAVEL OR SAND WITH A GRADATION SUCH THAT NO FINE SEDIMENT PASSES THROUGH THE BAG. IF THE SANDBAGS ARE NEEDED FOR MORE THAN ONE SUMMER SEASON, PROVIDE BAG MATERIAL THAT HAS ULTRAVIOLET STABILITY OF AT LEAST 70% IN CONFORMANCE WITH ASTM D4355 REQUIREMENTS. SECURELY CLOSE THE SAND BAGS.

PREFABRICATED UNITS: UPON APPROVAL BY THE ENGINEER, USE IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING.

INSTALLATION

1. INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

INSPECTION, MAINTENANCE, AND REMOVAL

1. SEE NOTES ON BMP-23.00 STORM DRAIN INLET SEDIMENT POTENTIAL BARRIERS, SHEET 1 - NOTES FOR INSPECTION, MAINTENANCE, AND REMOVAL.

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Date	Description	By

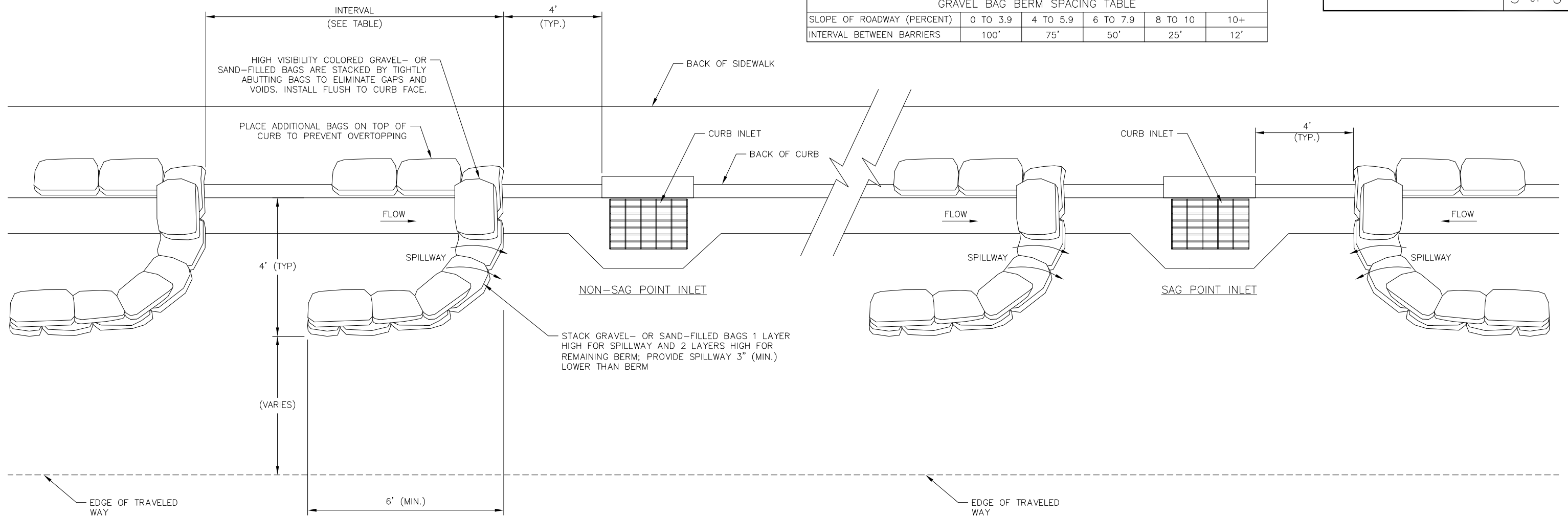
State of Alaska DOT&PF
STORM DRAIN INLET SEDIMENT PROTECTION (CURB INLET PREFABRICATED BARRIER SYSTEM & CURB FACE INLET FILTER)

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GRAVEL BAG BERM SPACING TABLE					
SLOPE OF ROADWAY (PERCENT)	0 TO 3.9	4 TO 5.9	6 TO 7.9	8 TO 10	10+
INTERVAL BETWEEN BARRIERS	100'	75'	50'	25'	12'



PERSPECTIVE

GRAVEL OR SANDBAG BERMS FOR CURB INLETS
NOT TO SCALE

CURB INLET GRAVEL OR SANDBAG BERM NOTES:

MATERIALS
PREFABRICATED UNITS: UPON APPROVAL BY THE ENGINEER, USE IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING.

GRAVEL- OR SAND-FILLED BAG: TIGHTLY WOVEN BURLAP OR WOVEN GEOTEXTILE BAG MATERIAL THAT IS SUFFICIENTLY DURABLE TO REMAIN INTACT FOR THE TIME INTENDED. FILL BAGS $\frac{3}{4}$ FULL OF GRAVEL OR SAND WITH A GRADATION SUCH THAT NO FINE SEDIMENT PASSES THROUGH THE BAG. IF THE SANDBAGS ARE NEEDED FOR MORE THAN ONE SUMMER SEASON, PROVIDE BAG MATERIAL THAT HAS ULTRAVIOLET STABILITY OF AT LEAST 70% IN CONFORMANCE WITH ASTM D4355 REQUIREMENTS. SECURELY CLOSE THE SAND BAGS.

INSTALLATION

1. DELINEATE SAND BAGS WITH TRAFFIC CONTROL DEVICES WHERE NECESSARY
2. IF PREFABRICATED BARRIERS ARE USED, INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

INSPECTION, MAINTENANCE, AND REMOVAL

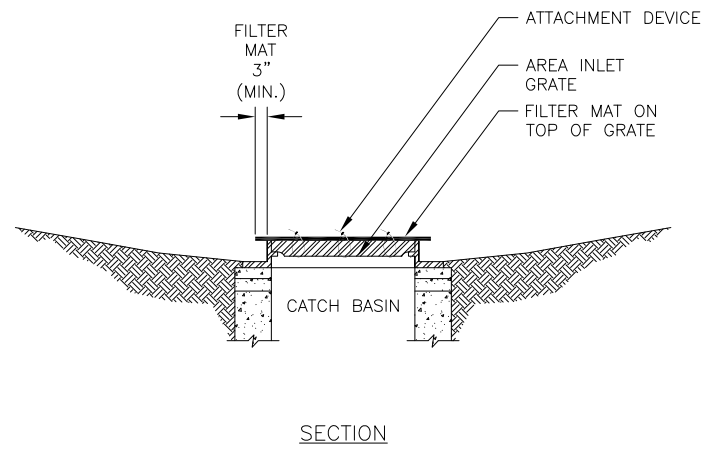
1. SEE STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES ON BMP-25.00 [STORM DRAIN INLET SEDIMENT PROTECTION (NOTES & AREA INLET FIBER ROLL OR GRAVEL/SAND BAG BERM)] NOTES FOR INSPECTION, MAINTENANCE, AND REMOVAL.

REVISIONS		
Date	Description	By

State of Alaska DOT&PF
**STORM DRAIN INLET
 SEDIMENT PROTECTION
 (CURB INLET GRAVEL
 OR SANDBAG BERMS)**

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FILTER MAT FOR AREA INLETS
NOT TO SCALE

AREA INLET FILTER MAT NOTES:

MATERIALS

MAT: FABRICATED FROM COIR OR EQUIVALENT MATERIAL FOR INLET PROTECTION

ATTACHMENT DEVICES: WIRE OR PLASTIC TIES

PREFABRICATED UNITS: UPON APPROVAL BY THE ENGINEER, USE IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING.

INSTALLATION

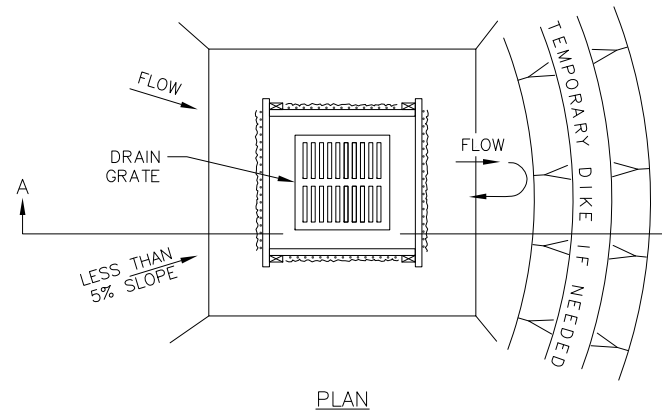
1. POSITION THE MAT OVER THE INLET GRATE AND ENSURE THAT IT EXTENDS BEYOND THE EDGE OF THE GRATE BY 3-INCHES MINIMUM ON ALL SIDES.
2. INSTALL AND ATTACH THE MAT TO THE GRATE AS SPECIFIED BY THE MANUFACTURER.
3. IF OTHER PREFABRICATED UNITS ARE USED, INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

MAINTENANCE

1. SWEEP TOP AND SIDES OF THE MAT TO REMOVE SEDIMENT AND DEBRIS.
2. REMOVE AND REPLACE MAT IF IT BECOMES CLOGGED.

INSPECTION, MAINTENANCE, AND REMOVAL

1. SEE STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES ON BMP-25.00 [STORM DRAIN INLET SEDIMENT PROTECTION (NOTES & AREA INLET FIBER ROLL OR GRAVEL/SAND BAG BERM)] NOTES FOR INSPECTION, MAINTENANCE, AND REMOVAL.



FILTER FABRIC FOR AREA INLETS
NOT TO SCALE

AREA INLET FILTER FABRIC NOTES:

MATERIALS

PREFABRICATED UNITS: UPON APPROVAL BY THE ENGINEER, USE IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING.

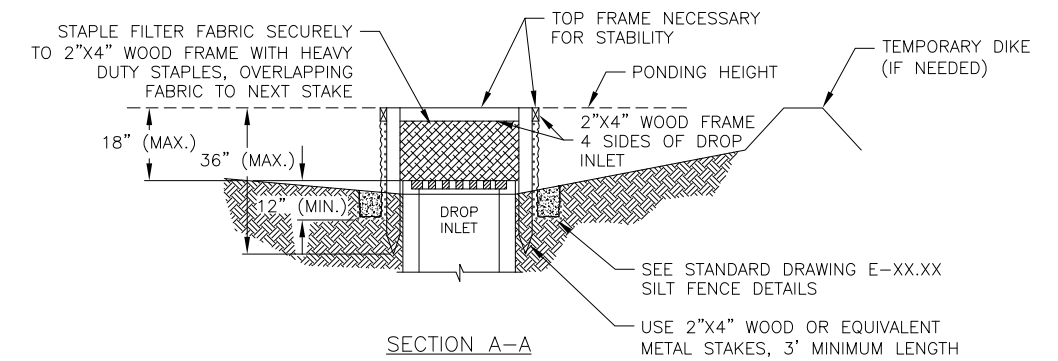
FILTER FABRIC: (SILT FENCE) SHALL COMPLY WITH SECTION 729-2.04 SILT FENCE.

INSTALLATION

1. IF PREFABRICATED BARRIERS ARE USED, INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.
2. PLACE A STAKE AT EACH CORNER OF THE INLET OR IN A CIRCULAR PATTERN AROUND THE INLET NO MORE THAN 3 FEET APART. DRIVE STAKES INTO THE GROUND A MINIMUM OF 12 INCHES.
3. ENSURE STABILITY BY BRACING AT THE TOP.
4. INSTALL FILTER FABRIC (SILT FENCE) AS SHOWN ON DRAWING BMP-20.00 SILT FENCE.

INSPECTION, MAINTENANCE, AND REMOVAL

1. SEE STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES ON BMP-25.00 [STORM DRAIN INLET SEDIMENT PROTECTION (NOTES & AREA INLET FIBER ROLL OR GRAVEL/SAND BAG BERM)] NOTES FOR INSPECTION, MAINTENANCE, AND REMOVAL.



REVISIONS		
Date	Description	By

State of Alaska DOT&PF
**STORM DRAIN INLET
SEDIMENT PROTECTION
(AREA INLET FILTER MAT
& FILTER FABRIC)**

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AREA DRAINS OR CURB INLET NOTES:

MATERIALS

PREFABRICATED UNITS: UPON APPROVAL BY THE ENGINEER, USE IN PLACE OF THE DESIGN SHOWN ON THIS DRAWING.

SEDIMENT CONTROL INLET HATS: SHALL BE A POLYETHYLENE HAT-LIKE STRUCTURE COVERING THE INLET WITH SMALL WEEP HOLES ON THE SIDE PROVIDING A FILTERING FUNCTION FOR THE STORMWATER RUNOFF, AND A LARGE OPENING ABOVE THE WEEP HOLES FOR EMERGENCY OVERFLOW.

FILTER BAG INSERTS: SHALL CONSIST OF A REPLACEABLE FILTER BAG REINFORCED WITH AN OUTER POLYESTER MESH FABRIC.

1. THE FILTER BAG SHALL BE SUSPENDED FROM A GALVANIZED STEEL RING, REBAR OR STEEL RODS, OR FRAME THAT FITS WITHIN A GRATE UTILIZING A STAINLESS STEEL BAND AND LOCKING CLAMP.
2. CONSTRUCT THE FILTER BAG THAT IS SUSPENDED FROM A FRAME OF A POLYPROPYLENE FILTER GEOTEXTILE FABRIC, THAT MEETS THE FOLLOWING MINIMUM REQUIREMENTS:

	ASTM METHOD	VALUE	UNITS
UNIT WEIGHT	--	4	OUNCE/SQ YD
FLOW RATE	--	145	GALLONS/MINUTE/SQ FT
PERMITTIVITY	D4491	0.5	PER SECOND
GRAB TENSILE STRENGTH	D4632	200	POUNDS
PUNCTURE STRENGTH	D6241	80	POUNDS
TEAR STRENGTH	D4533	50	POUNDS
DEBRIS CAPACITY	--	2	CUBIC FT

3. DOUBLE STITCH ALL EDGES AND SEAMS.
4. THE FILTER BAG INSERT SHALL HAVE OVAL, EDGE-HEAT-SEALED OVERFLOW HOLES, MINIMUM 2 INCHES X 4 INCHES, CUT INTO ALL FOUR PANEL SIDES.
5. PROVIDE BUILT-IN OVERFLOW BYPASS.
6. THE INLET STRUCTURE'S GRATE OVERFLOW CAPACITY IS AT A MINIMUM EQUAL TO THE DESIGN FLOW CAPACITY.
7. PROVIDE A RETRIEVAL SYSTEM, SUCH AS FLAPS, HANDLES, OR CORDS, TO ALLOW REMOVAL OF THE BELOW-INLET GRATE BARRIER WITHOUT SPILLING THE COLLECTED MATERIAL.

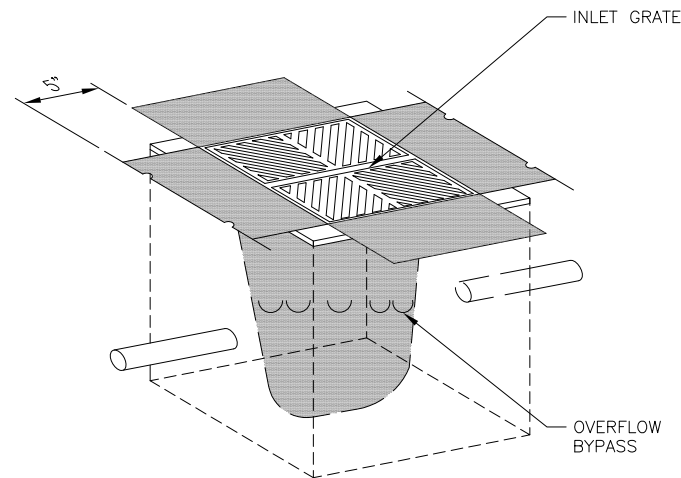
INSTALLATION

1. IF PREFABRICATED SEDIMENT PROTECTION DEVICES ARE USED, INSTALL AS SPECIFIED BY THE VENDOR OR MANUFACTURER.

INSPECTION, MAINTENANCE, AND REMOVAL

1. SEE STORM DRAIN INLET SEDIMENT PROTECTION GENERAL NOTES ON BMP-25.00 [STORM DRAIN INLET SEDIMENT PROTECTION (NOTES & AREA INLET FIBER ROLL OR GRAVEL/SAND BAG BERM)] NOTES FOR INSPECTION, MAINTENANCE, AND REMOVAL.

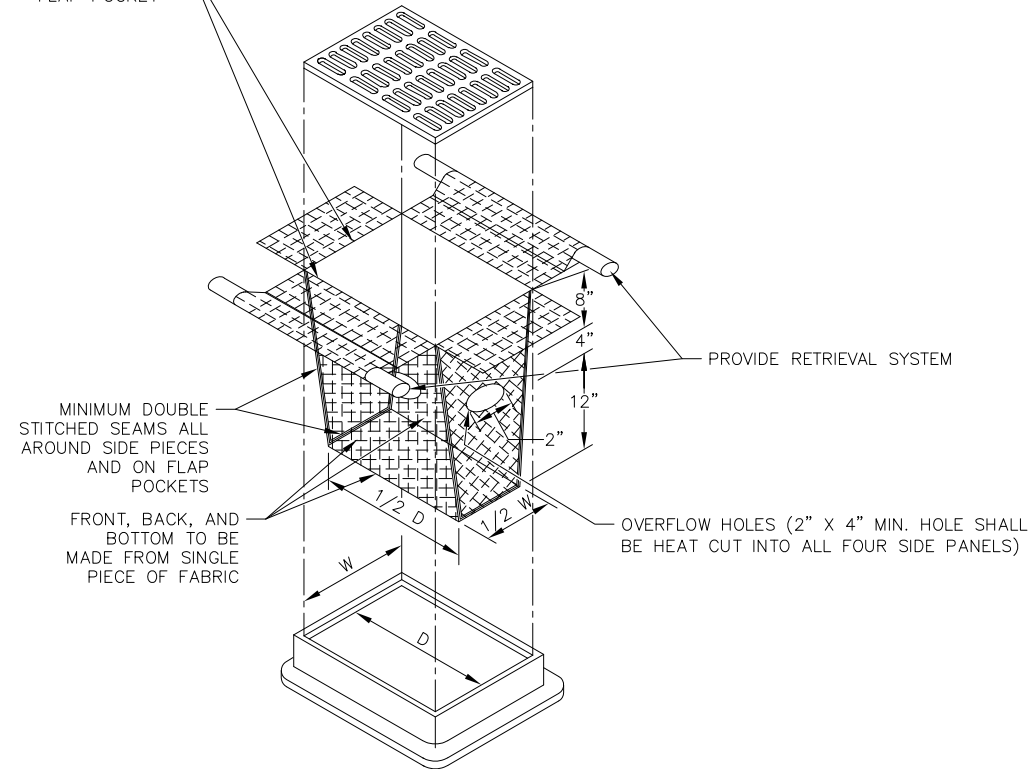
INLET SPECIFICATIONS AS PER THE PLAN DIMENSION LENGTH AND WIDTH TO MATCH FLAP POCKET



PERSPECTIVE

SEDIMENT CONTROL INLET HAT
FOR AREA DRAINS OR CURB INLETS

NOT TO SCALE



PERSPECTIVE

FILTER BAG INSERT
FOR AREA DRAINS OR CURB INLETS

NOT TO SCALE

REVISIONS		
Date	Description	By

State of Alaska DOT&PF
STORM DRAIN INLET
SEDIMENT PROTECTION
(AREA OR CURB INLET
FILTER INSERT)

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D

Date 12/2015 X/XX/XX

BMP 23.00 & 24.00. Stabilized Construction Exit

DESIGN CONSIDERATIONS

Objectives

Stabilized Construction Exits are used to clean mud and sediment from vehicle tires, minimizing the amounts transported off-site from construction projects.

Description

A Stabilized Construction Exit provides a stabilized rock area or pad underlined with a geotextile and located where traffic exits the construction site.

Other Names

Vehicle Tracking Exit/ Entrance, Construction Exit, Construction Entrance

Applicability

Stabilized Construction Exits are necessary for projects where sediment or mud can be tracked off-site. Stabilized Construction Exits are also applicable for projects adjacent to waters of the U.S., where poor soils have been encountered, or where dust is a problem during dry weather conditions.

Selection Considerations

Stabilized Construction Exits should be installed at project access points prior to commencing major grading operations.

- Limit exits to the project.
- Avoid exits that have steep grades or are located where sight distance may be a problem.
- Slope exit towards the project where possible to retain sediment on-site.
- Provide drainage to carry water to sediment trap or other suitable outlet.
- Design exit for heaviest/longest vehicles and equipment to be used on-site.
- Exit shall be a minimum length to provide for three complete revolutions of the largest vehicle tires and 12 feet wide.
- Use fencing as necessary to direct traffic to the exit.
- Construct exit on a firm compacted subgrade when practicable.

- Avoid crossing sidewalks or back-of-walk drains.
- Avoid constructing exits at curves in public roads.
- Separation geotextile may be placed under the Stabilized Construction Exit to prevent fine sediment from pumping up into the exit structure.
- If project conditions determine the need for Stabilized Construction Exits at specific locations, provide the location on the plans.

Relationship to Other Erosion and Sediment Control Measures

Stabilized Construction Exits may be used in combination with street sweeping and tire washing to minimize the amount of sediment transported off-site.

Common Failures or Misuses

- Failure to periodically “top dress” (provide additional rock) when sediment accumulates on the surface.
- Failure to repair and/or clean out any structures used to trap sediment.
- Failure to provide adequate depth and length of rock.
- Not having a Stabilized Construction Exit and using street sweeping as a substitute.
- Use of asphalt concrete grindings, crushed concrete, cement, or calcium chloride resulting in an increase in pH levels in stormwater.

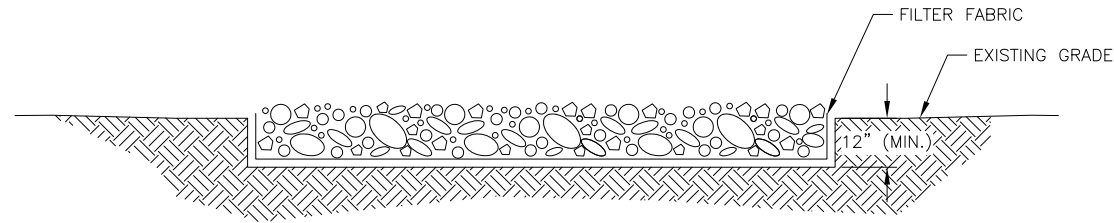
SPECIFICATIONS

Standard Specification

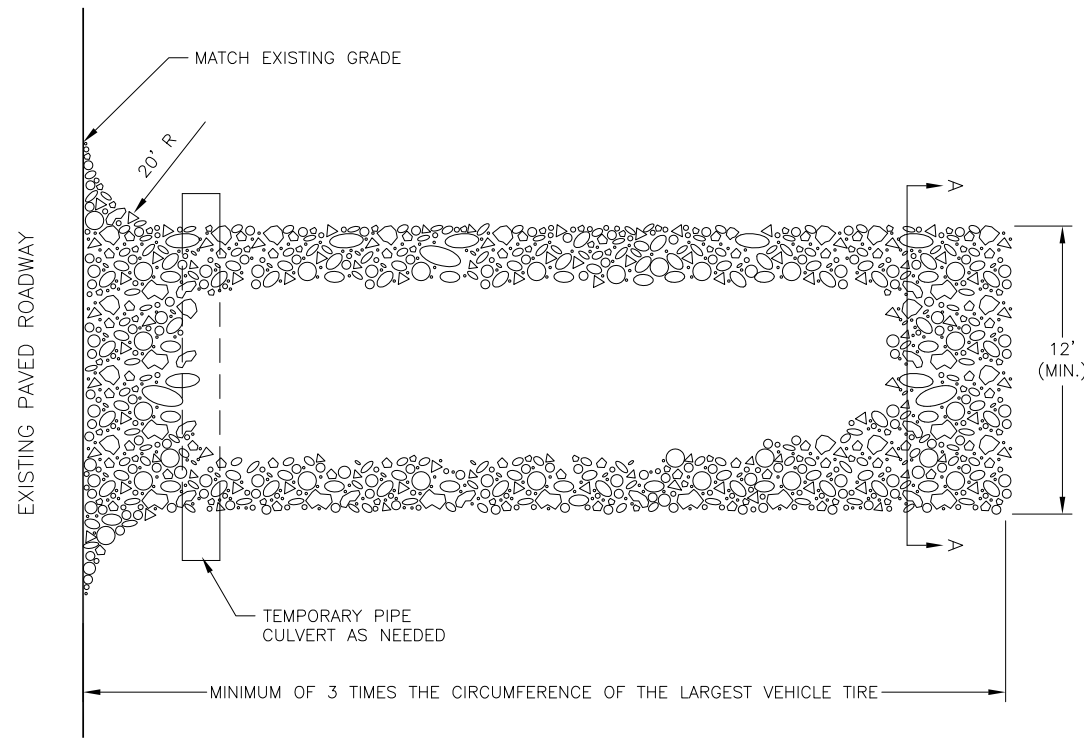
- 682 – Stabilized Construction Exit

Drawing:

- BMP-23.00 Stabilized Construction Exit (Sheets 1 of 2)
- BMP-24.00 Stabilized Construction Exit (Metal Plate, Sheet 2 of 2)



SECTION A-A



PLAN

ROCK CONSTRUCTION EXIT
NOT TO SCALE

ROCK CONSTRUCTION EXIT NOTES:

MATERIALS

ROCK: 2- TO 3-INCH COARSE AGGREGATE OR 3- TO 6-INCH QUARRY SPALL OR ANGULAR ROCK, WHICHEVER IS APPROPRIATE TO THE PROJECT FLEET.

INSTALLATION

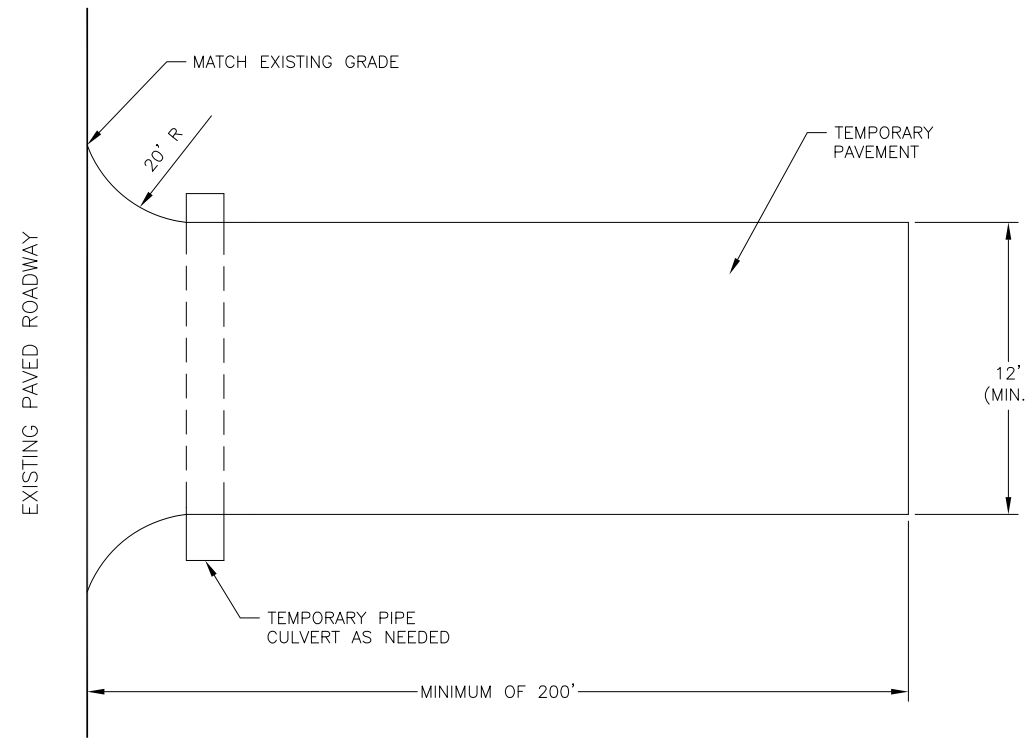
1. PLACE THE FILTER FABRIC AND ROCK TO THE SPECIFIC GRADE SHOWN ON THE PLANS.

MAINTENANCE

1. REMOVE ACCUMULATED SEDIMENT OR MUD.
2. REPLACE ROCK MATERIAL WHEN SURFACE VOIDS ARE FILLED WITH SEDIMENT. REPLACE FABRIC AS NEEDED.
3. TOP DRESS WITH 2 TO 3 INCHES OF COARSE AGGREGATE OR 3- TO 6-INCH COARSE ROCK WHEN THE PAD BECOMES LADEN WITH SEDIMENT.

INSPECTION

1. INSPECT FOR ROCK THAT HAS BEEN DISPLACED FROM THE PAD.



PLAN

TEMPORARY PAVEMENT CONSTRUCTION EXIT
NOT TO SCALE

TEMPORARY PAVEMENT CONSTRUCTION EXIT NOTES:

INSPECTION

1. INSPECT TEMPORARY PAVEMENT FOR DAMAGE.

MAINTENANCE

1. SWEEP DESIGNATED PAVED EXIT TO PREVENT SEDIMENT TRACK-OUT.
2. REPAIR DAMAGED TEMPORARY PAVEMENT.

STABILIZED CONSTRUCTION EXIT GENERAL NOTES:

INSTALLATION

1. INSTALL STABILIZED CONSTRUCTION EXIT PRIOR TO EARTH WORK.
2. CLEAR THE EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER MATERIAL.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP, VEGETATIVE SEDIMENT FILTER OR OTHER PROTECTED OUTLET.
4. EXCAVATE AND GRADE THE AREA FOR ROCK PLACEMENT.
5. INSTALL SIGNS, FENCING OR BARRICADES TO CHANNEL OUTGOING TRAFFIC TO THE STABILIZED CONSTRUCTION EXIT.

INSPECTION

1. INSPECT STABILIZED CONSTRUCTION EXIT FOR SEDIMENT ACCUMULATION AND MATERIAL DISPLACEMENT.
2. INSPECT ROADWAY FOR SEDIMENT TRACK-OUT.
3. INSPECT DITCHES TO ENSURE NO SEDIMENT ACCUMULATION.

MAINTENANCE

1. MAINTAIN EACH EXIT IN A CONDITION THAT WILL PREVENT TRACKING OF MUD OR SEDIMENT ONTO PUBLIC RIGHT-OF-WAY.
2. REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT.
3. REMOVE ALL MUD AND SEDIMENT DEPOSITED ON PAVED ROADWAYS.
4. ADD MORE SIGNS, FENCING OR BARRICADES WHEN VEHICLES ARE EXITING THE PROJECT WITHOUT USING THE STABILIZED CONSTRUCTION EXIT. INSTALL ADDITIONAL STABILIZED CONSTRUCTION EXITS IF NEEDED, YET USE SIGNS AND BARRICADES TO MINIMIZE THE NUMBER OF STABILIZED CONSTRUCTION EXITS.
5. PREVENT TRACK-OUT BY USING ADDITIONAL BMPs, SUCH AS A TIRE WASH.

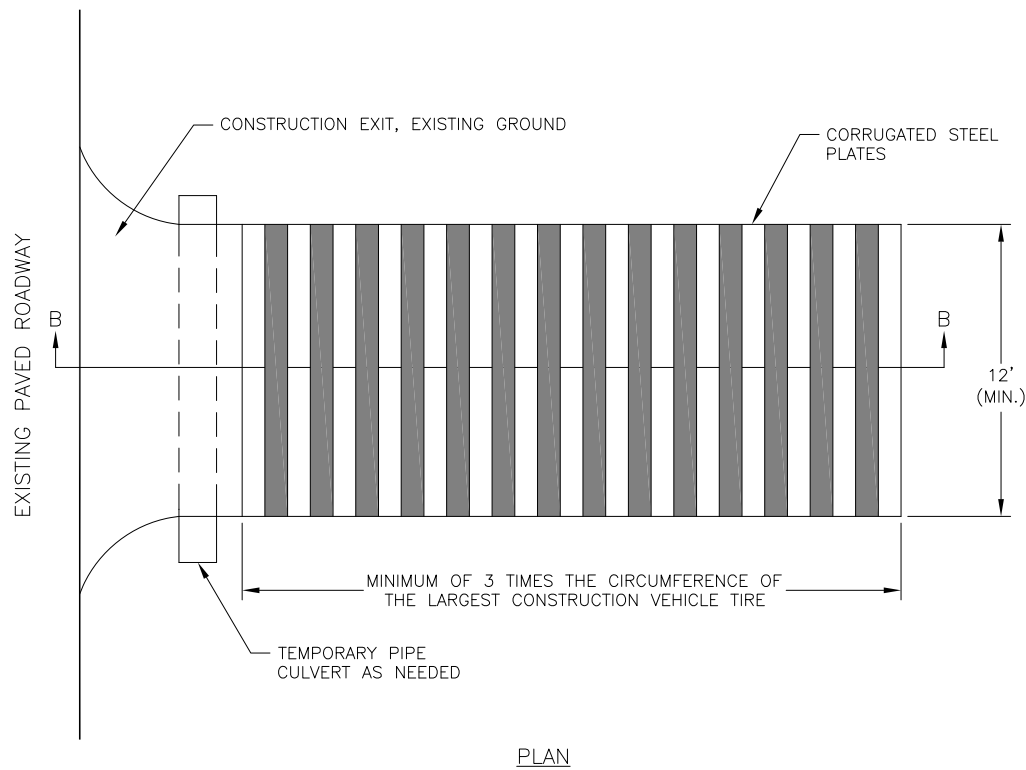
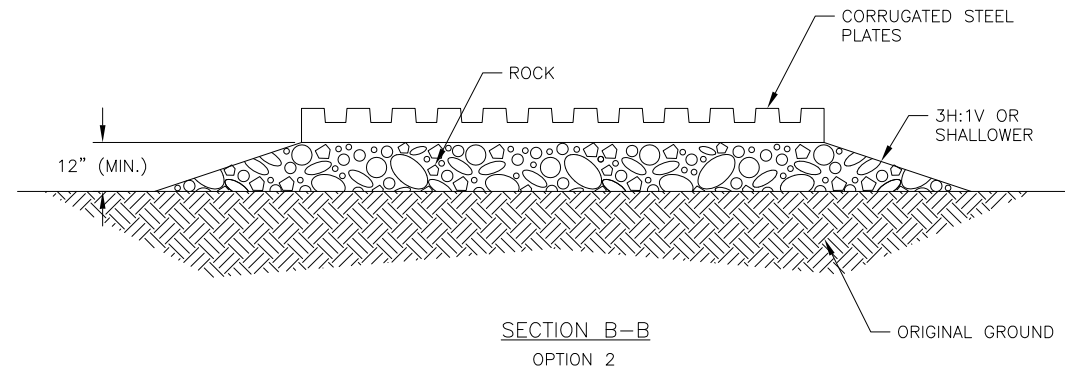
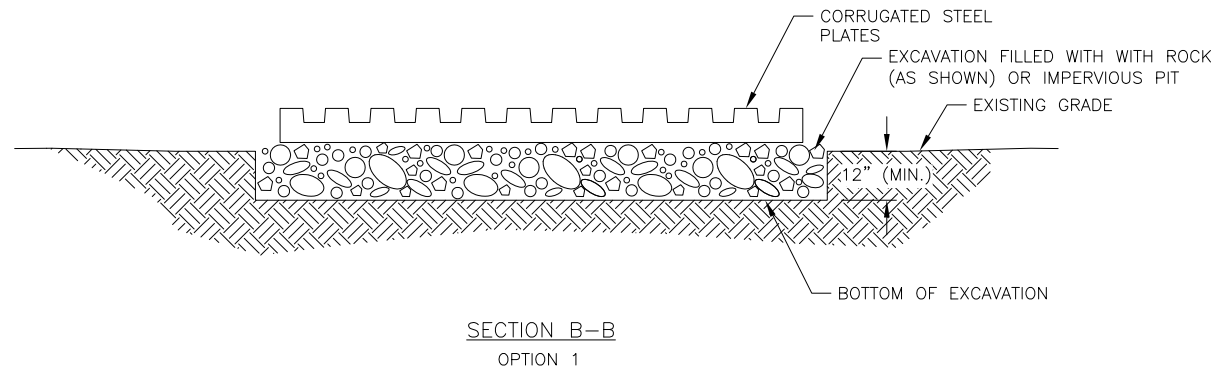
REMOVAL

1. REMOVE THE STABILIZED CONSTRUCTION EXIT AND ANY SEDIMENT TRAPPING STRUCTURES AFTER THEY ARE NO LONGER NEEDED, OR WITH FINAL SITE STABILIZATION.
2. REGRADE AND PERMANENTLY STABILIZE THE REMAINING DISTURBED AREAS ACCORDING TO THE PLANS.

REVISIONS		
Date	Description	By

State of Alaska DOT&PF
**STABILIZED
CONSTRUCTION EXIT
(NOTES, ROCK &
TEMPORARY PAVEMENT)**

APPROVED
Date 12/2015 X/XX/XX



METAL PLATE CONSTRUCTION EXIT
NOT TO SCALE

METAL PLATE CONSTRUCTION EXIT NOTES:

MATERIALS

CORRUGATED STEEL PLATES: SHAKER/RUMBLE PLATES, CORRUGATED STEEL PLATES, OR EQUIVALENT DESIGNED FOR ANTICIPATED TRAFFIC LOADS.

ROCK: 2- TO 3-INCH COARSE AGGREGATE.

INSTALLATION

1. IF CORRUGATED STEEL PLATES ARE OPEN TO THE SURFACE BELOW, INSTALL GRAVEL OR IMPERVIOUS PIT.
2. PLACE CORRUGATED STEEL PLATES.

INSPECTION

1. INSPECT CORRUGATED STEEL PLATES FOR DAMAGE.

MAINTENANCE

1. REPLACE DAMAGED CORRUGATED STEEL PLATES AS NECESSARY.
2. LIFT PLATE AND REMOVE ACCUMULATED SEDIMENT.
3. WHEN SURFACE VOIDS FILL WITH SEDIMENT, REPLACE ROCK MATERIAL.

ADDITIONAL NOTES:

SEE STABILIZED CONSTRUCTION EXIT GENERAL NOTES ON BMP 23.00 STABILIZED CONSTRUCTION EXIT (NOTES, ROCK & TEMPORARY PAVEMENT).

REVISIONS		
Date	Description	By

State of Alaska DOT&PF
**STABILIZED
CONSTRUCTION EXIT
(METAL PLATE)**

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Date 12/2015 X/XX/XX

BMP 55.00. Street Sweeping and Vacuuming for Sediment Control

DESIGN CONSIDERATIONS

Objectives

Street Sweeping and Vacuuming for Sediment Control is used to remove sediment from paved surfaces to prevent it from entering storm drain systems or waters of the U.S.

Description

Sediment is removed from roads and paved surfaces by power sweepers or manual methods and disposed of in a controlled sediment disposal area.

Applicability

Sweeping is implemented anywhere sediment is tracked from the project area onto public or private paved roads and other paved surfaces. Street Sweeping and Vacuuming for Sediment Control should be conducted when sediment accumulation is visible on paved surfaces. Typically, this will be concentrated at the exit to the construction site

Selection Considerations

- Sweepers that pick up sediment and control dust emissions should be specified. Of the four types of mechanical power sweepers available, three (vacuum, regenerative air, and high efficiency sweepers) are acceptable. Prohibit the use of methods that use only mechanical kick brooms. Conventional mechanical broom sweepers have been found to have a negative effect on the amount of stormwater runoff pollution. Mechanical sweepers may only be used if followed by a vacuum-assisted sweeper.
- Manual broom sweeping with pickup is acceptable. On smaller construction sites and in areas not accessible by power sweepers, sweeping can be conducted manually using a broom and shovel.
- The use of leaf blowers and other similar equipment for sweeping is unacceptable.
- Reasonable measures must be employed to prevent dust from becoming airborne during any operation where material that may create dust is handled, transported, or stored.

- If the sediment or soil is wet or muddy, paved surfaces will need to be scraped manually or mechanically.

Relationship to Other Erosion and Sediment Control Measures

Erosion and sediment control measures in the contributing areas must be in place to minimize the amount of sediment that must be swept. Stabilized Construction Exit (BMP-23 and BMP-24) or Tire Wash (BMP-36 and BMP-37) should be included in the contract. Street Sweeping and Vacuuming for Sediment Control is a secondary measure to remove residual sediment that was not removed by other measures. Well-maintained stabilized construction exits, vehicle tracking controls, and tire wash facilities can help reduce the necessary frequency of Street Sweeping and Vacuuming for Sediment Control.

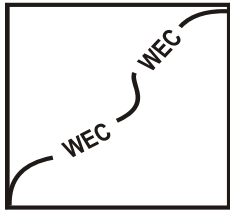
Common Failures or Misuses

- Insufficient erosion controls in the contributing disturbed area.

SPECIFICATIONS

Standard Specifications

- 656 Street Sweeping and Vacuuming for Sediment Control



Standard Symbol

BMP Objectives	
Soil Stabilization	<input checked="" type="checkbox"/>
Sediment Control	<input checked="" type="checkbox"/>
Tracking Control	<input type="checkbox"/>
Wind Erosion Control	<input checked="" type="checkbox"/>
Non-Stormwater Management	<input type="checkbox"/>
Materials and Waste Management	<input type="checkbox"/>

Definition and Purpose

- Wind erosion control consists of applying water or other dust palliatives as necessary to prevent or alleviate erosion by the forces of wind. Dust control must be applied in accordance with Caltrans standard practices. Covering of small stockpiles or areas is an alternative to applying water or other dust palliatives; see SS-7 for “Temporary Cover and Rolled Erosion Control Products”

- Must comply with local agencies such as Air Quality Management District’s requiring dust control plans or dust control permits as well as any Air Clean Act requirements.

Appropriate Applications This practice is generally implemented on all exposed soils subject to wind erosion.

Limitations

- Effectiveness depends on soil, temperature, humidity and wind velocity.
- Chemically treated subgrades could cause soil to become water repellant, preventing infiltration or the long-term re-vegetation of the site.

Standards and Specifications Standard Specification Section 10-5 contains general requirements for “Dust Control.”

- Effective dust control is accomplished by applying dust palliatives, temporary Soil Stabilization BMPs, Tracking Controls and managing stockpiles.
- “Dust Palliatives” are covered under Section 18 of the Standard Specifications. Acceptable dust palliatives include water, dust control binders, and dust suppressants. Dust control binders must comply with specifications for tackifier. Dust suppressants include petroleum-based organic product, nonpetroleum-based organic product, hygroscopic product, and synthetic polymer emulsion.

- If a dust suppressant or tackifier is used, submit a Dust Treatment Plan. Submit a certificate of compliance for dust suppressants, tackifiers, and fibers.
 - Identify and stabilize key access points with the use of Tracking Control BMPs.
 - Minimize the impact of dust by anticipating the direction of prevailing winds.
 - Temporary soil stabilization BMPs, such as SS-3 “Hydraulic Mulch”, SS-4 “Hydroseed, SS-5 “Soil Binders, also provide wind erosion control benefits.
 - Ensure proper implementation of BMPs WM-3, “Stockpile Management,” and SC-7, “Street Sweeping,” as these BMPs provide wind erosion control benefits.
 - Ensure that water is applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses and nozzles to ensure even distribution.
 - All distribution equipment should be equipped with a positive means of shutoff.
 - Chemical dust suppression products could have environmental water quality impacts. Depending on the product and the time of application, water quality sampling for non-visible pollutants should be assessed when a storm even is forecasted.
 - For chemical or petroleum based organics stabilization, there are many products available. These products should not create any adverse effects on stormwater, plant life, groundwater and should meet all applicable regulatory requirements including inspection, documentation, monitoring and reporting requirements.
 - Unless water is applied by means of pipelines, at least one mobile unit should be available at all times to apply water or dust palliative to the project.
 - If reclaimed water is used, the sources and discharge must meet California Department of Health Services water reclamation criteria and the RWQCB requirements. Non-potable water must not be conveyed in tanks or drain pipes that will be used to convey potable water and there must be no connection between potable and non-potable supplies. Non-potable tanks, pipes and other conveyances must be marked “NON-POTABLE WATER - DO NOT DRINK.”
 - Appendix B of this Manual includes additional information on selecting temporary soil stabilization products that could be used for Wind Erosion Control.
- Maintenance and Inspection**
- Check areas where wind erosion controls have been implemented daily for erosion and visible dust.
 - Most water-based dust control measures require frequent application. Obtain vendor or independent information on longevity of chemical dust suppression.

- SWPPP or WPCP ■ Wind Erosion Control must be discussed in Section 500.3.5 of the SWPPP or Section 30.2.4 of the WPCP.

APPENDIX C

PROJECT SCHEDULE

APPENDIX D
SUPPORTING DOCUMENTS

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Anchorage County, Alaska



Local office

Anchorage Fish & Wildlife Field Office

☎ (907) 271-2888

📠 (907) 271-2786

4700 Blm Road
Anchorage, AK 99507

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

There are no listed species or critical habitats expected to occur at this location.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act² and the Migratory Bird Treaty Act (MBTA)¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

There are Bald Eagles and/or Golden Eagles in your [project](#) area.

Measures for Proactively Minimizing Eagle Impacts

For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the [National Bald Eagle Management Guidelines](#). You may employ the timing and activity-specific distance recommendations in this document when designing your project/activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to [Bald Eagle Nesting and Sensitivity to Human Activity](#).

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional [Migratory Bird Office](#) or [Ecological Services Field Office](#).

If disturbance or take of eagles cannot be avoided, an [incidental take permit](#) may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the [Do I Need A Permit Tool](#). For assistance making this determination for golden eagles, please consult with the appropriate Regional [Migratory Bird Office](#) or [Ecological Services Field Office](#).

Ensure Your Eagle List is Accurate and Complete

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

Please refer to [Alaska's Bird Nesting Season](#) for recommendations to minimize impacts to migratory birds, including eagles.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Mar 1 to Aug 31
Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Mar 1 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "[Supplemental Information on Migratory Birds and Eagles](#)", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

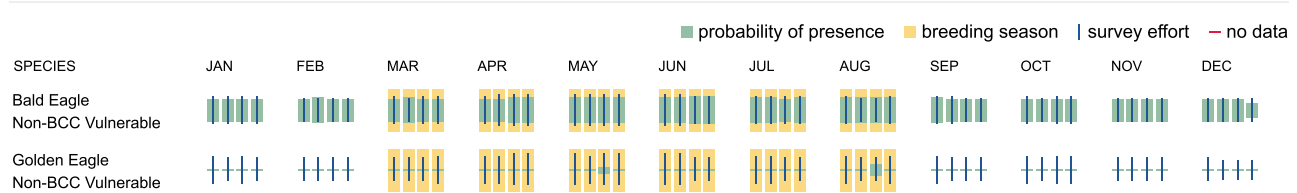
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

There are migratory birds in your project area. Please refer to [Alaska's Bird Nesting Season](#) for recommendations to minimize impacts to migratory birds, including eagles.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases [birds of concern](#), including [Birds of Conservation Concern \(BCC\)](#), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the [Nationwide avoidance and minimization measures for birds](#) document, and any other project-specific avoidance and minimization measures suggested at the link [Measures for avoiding and minimizing impacts to birds](#) for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles document](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Aleutian Tern <i>Onychoprion aleuticus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9599	Breeds May 1 to Aug 31
American Golden-plover <i>Pluvialis dominica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 15
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Mar 1 to Aug 31
Golden Eagle <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds Mar 1 to Aug 31
Hudsonian Godwit <i>Limosa haemastica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Jul 31

Bald Eagle Non-BCC Vulnerable	
Golden Eagle Non-BCC Vulnerable	
Hudsonian Godwit BCC Rangewide (CON)	
Lesser Yellowlegs BCC Rangewide (CON)	
Olive-sided Flycatcher BCC Rangewide (CON)	
Short-billed Dowitcher BCC Rangewide (CON)	
Wandering Tattler BCC Rangewide (CON)	

Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

APPENDIX E
DELEGATION OF AUTHORITY AND
SUBCONTRACTOR
CERTIFICATIONS

Appendix E – Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

Project Title: CEA Gambell Street OH to UG P1900043

Operator(s):

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above-designated project and agree to follow the BMPs and practices described in the SWPPP.

This certification is hereby signed in reference to the above-named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: Day-to-day operational control of on-site activities _____

Signature: _____

Title: _____

Date: _____

APPENDIX F
PERMIT CONDITIONS



GENERAL PERMIT FOR DISCHARGES FROM LARGE AND SMALL
CONSTRUCTION ACTIVITIES

(Construction General Permit) –Final

Permit Number: **AKR100000**

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501

In compliance with the provisions of the Clean Water Act (CWA), 33 U.S.C. §1251 et. seq., as amended by the Water Quality Act of 1987, P.L. 100-4, this permit is issued under provisions of Alaska Statutes 46.03, the Alaska Administrative Code (AAC) as amended, and other applicable State laws and regulations.

Operators of large and small construction activities described in Part 1.4 of this Alaska Pollutant Discharge Elimination System (APDES) general permit, except for those activities excluded from authorization to discharge in Part 1.4.4 of this permit, are authorized to discharge storm water associated with construction activity to waters of the U.S., in accordance with the conditions and requirements set forth herein. Permit authorization is required from the “commencement of construction activities” until “final stabilization” as defined in Appendix C.

This permit shall become effective on 2/1/2026.

This permit and the authorization to discharge shall expire at midnight, 1/31/2031.

James Rypkema
Signature

James Rypkema
Name

December 22, 2025
Date

Program Manager
Title

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SCHEDULE OF SUBMISSIONS

The Schedule of Submissions (Table 1) summarizes the required submissions and activities the permittee must complete and/or submit to the Alaska Department of Environmental Conservation (DEC or the Department) during the terms of this permit. The operator is responsible for all submissions and activities even if they are not summarized below.

Table 1: Schedule of Submissions

Permit Part	Type of Project	Submittal Requirement	Frequency	Due Date
Prior to Construction				
1.4.4.7, 2.1.1, 2.1.2, and 4.11	Projects that will construct Permanent Storm Water Management Controls	Engineering Plans	Once	At least 30 calendar days before the start of construction or as required by the MS4 Operator
1.5	Small construction activities that use a waiver in lieu of CGP authorization	Waiver Certification	Once	At least five business days before proposed start of construction
2.1.3	Projects that disturb greater than or equal to 5 acres of land and are outside an MS4 area	SWPPP ²	Once	With NOI
2.1.4	Projects inside an MS4 area	SWPPP	Once	Depends on requirements of MS4 operator
2.1.5 and 4.6.7	Project that use Cationic Treatment Chemicals	Engineering Plans and Project Details	Once	At least 14 calendar days before use of the system
2.1.6	Projects that discharge to an Outstanding Natural Resource Water	Site-Specific Antidegradation Analysis	Once	At least 14 calendar days before filing NOI
2.3	Projects that disturb greater than or equal to 1 acre of land	Notice of Intent	Once	At least five business days before the start of construction

Permit Part	Type of Project	Submittal Requirement	Frequency	Due Date
During Construction				
2.4.2 2.6	For an authorized permittee if the permittee intends to continue operations and discharges beyond the term of this permit	Submit a complete and accurate new NOI according to Part 2.3	Once	Within 90 calendar days of the effective date of this permit
2.7	To update or correct information on the original NOI	NOI Modification	As needed	Within 30 days of a change of information as specified in Permit Part 2.7
3.2, 8.4, and 9.2	If the difference between upstream and downstream samples exceed WQS for turbidity	Corrective Action Report	As necessary	At least 14 calendar days after receiving monitoring results
9.1	Projects that disturb greater than or equal to 20 acres of land	Annual Report	As needed for sites meeting Part 3.2	By December 31st or with NOT
9.5	All projects with an active NOI	Request for Submittal of Records	As requested by DEC	At least 30 calendar days after receipt of request
Post Construction				
10.2	All projects with an active NOI	Notice of Termination (NOT)	Once	Within 30 calendar days of completion of the project
Note: 1 All wastewater permit required submissions (e.g., Notices of Intent (NOIs), Notices of Termination (NOT), Annual reports, Noncompliance Notification, and Corrective Action reports) are to be submitted electronically through EDMS, unless prior approval has been obtained from DEC for an alternative means. 2 All projects that require an NOI must prepare a SWPPP. However, only operators who are developing projects that disturb greater than or equal to five (5) acres of land and are outside an MS4 area are required to submit a SWPPP to DEC.				

REQUIRED ON-SITE DOCUMENTATION

The Summary of Required On-Site Documentation (Table 2) lists the documents the permittee must have available at the project site or the project management office. The permittee is responsible for all documentation even if it is not summarized below.

Table 2: Summary of Permit Required On-Site Documentation

Permit Part	Document	Frequency	Purpose of Document
2.5	DEC NOI Reply Letter	Once at start of project	To provide permittee with DEC project tracking number indicating project is covered by CGP
5.0	SWPPP	Developed prior to submitting the NOI. Updated as necessary.	To describe the project and the control measures to minimize the discharge of pollutants into waters of the U.S.

Permit Part	Document	Frequency	Purpose of Document
5.4; 6.7	Inspection Reports	Conducted at frequency specified in SWPPP	To monitor compliance with SWPPP and CGP
5.5; 7.0	Monitoring Plan (if required)	As needed	To describe monitoring of storm water discharge for those projects that disturb more than threshold requirement
5.6	Permit Eligibility related to Total Maximum Daily Load (TMDL)	Once at start of project	To document compliance with TMDL requirements
5.7	Permit Eligibility related to Endangered Species Act (ESA)	Once at start of project	To document compliance with ESA requirements
5.8.1	Copy of this permit	Once at start of project	To include in SWPPP
5.8.2	Additional Documentation in the SWPPP	Updated as necessary	To maintain summaries of various specific activities at the site to document they were accomplished.
8.3	Corrective Action Log (if necessary)	Updated as necessary	To list the corrective actions taken at a site
8.4; 9.2	Corrective Action Report (if necessary)	As needed	To report exceeding the turbidity requirement and describe
9.1	Annual Report (if required)	Annually or at NOT	To report result of discharge monitoring
9.4	Records	As needed	To maintain project records
10.2	NOT	Once at completion of project	To notify DEC that the permittee is terminating permit coverage

1.0 COVERAGE UNDER THIS PERMIT

1.1 Introduction

The Alaska Construction General Permit (CGP) authorizes storm water discharges from large and small construction-related activities that result in a total land disturbance of equal to or greater than one acre and where those discharges enter waters of the U.S. (directly or through a storm water conveyance system) or a municipal separate storm sewer system (MS4) leading to waters of the U.S. subject to the conditions set forth in this permit. This permit also authorizes storm water discharges from certain construction support activities and some non-storm water discharges commonly associated with construction sites.

The goal of this permit is to minimize erosion and reduce or eliminate the discharge of pollutants, such as sediment carried in storm water runoff, from construction sites through implementation of appropriate control measures. Polluted storm water runoff can adversely affect fish, animals, plants, and humans. In order to ensure protection of water quality and human health, this permit describes control measures that must be used to manage storm water runoff during construction activities. This permit replaces the CGP that became effective February 1, 2021, and expired on January 31, 2026.

1.2 Person(s) Responsible for Obtaining Authorization under this Permit

- 1.2.1 All operators of large or small construction activities that meet the conditions in Part 1.4 must obtain authorization under this permit. For the purposes of this permit, an “operator” is any party associated with a construction project that meets either of the following two criteria:
- 1.2.1.1 The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications, or
 - 1.2.1.2 The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with the permit conditions (e.g., they are authorized to direct workers at a site to carry out activities required by the permit)

Note: Subcontractors generally are not considered operators for the purposes of this permit.

Note: Where there are multiple operators associated with the same project, all operators are required to obtain permit authorization. The following applies in these situations:

- *If one operator has control over plans and specifications and a different operator has control over activities at the project site, they may divide responsibility for compliance with the terms of this permit as long as they develop a group storm water pollution prevention plan (SWPPP) (see Part 5.1), which documents which operator has responsibility for each requirement of the permit.*
- *If an operator only has operational control over a portion of a larger project (e.g., one of four homebuilders in a subdivision), the operator is responsible for compliance with all applicable effluent limits, terms, and conditions of this permit as it relates to the activities on their portion of the construction site, including protection of endangered species, critical habitat, and historic properties, and implementation of control measures described in the SWPPP in the areas under their control.*
- *An operator must ensure either directly or through coordination with other permittees, that their activities do not render another permittee’s pollutant discharge controls ineffective.*

1.3 Permit Area

This general permit covers the State of Alaska, except lands within the Metlakatla Indian Reservation and the Denali National Park and Preserve.

1.4 Eligibility

- 1.4.1 **Eligibility Requirements.** To be authorized under this permit, the project must meet the following conditions or be notified by DEC that the site is eligible for permit coverage.
- 1.4.1.1 The project will disturb one or more acres of land, or will disturb less than one acre of land but is part of a common plan of development or sale that will ultimately disturb one or more acres of land;
 - 1.4.1.2 The site will discharge storm water to waters of the U.S. (directly or through a storm water conveyance system) or a MS4 leading to a waters of the U.S.;
 - 1.4.1.3 The project area is located in an area where DEC is the permitting authority;
 - 1.4.1.4 The project is not already covered under a different APDES permit;
 - 1.4.1.5 The project does not discharge to an impaired waterway with an EPA-approved or established Total Maximum Daily Load (TMDL) that specifically precludes such discharges; and
 - 1.4.1.6 The project is not likely to jeopardize the continued existence or cause a take of any threatened or endangered species protected under the Endangered Species Act (ESA) or their designated critical habitat.
- 1.4.2 **Authorized Storm Water Discharges.** Subject to compliance with the terms and conditions of this permit, the following discharges are authorized under this permit:
- 1.4.2.1 Storm water discharges associated with large and small construction activities, including those that are part of a common plan of development or sale that will ultimately disturb one or more acres of land.
 - 1.4.2.2 Storm water discharges designated by DEC as needing a storm water permit under 40 CFR §122.26(a)(1)(v) or §122.26(b)(15)(ii).
 - 1.4.2.3 Storm water discharges from support activities (such as concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) (as defined in Appendix C), whether on-site, adjacent to, or off-site, provided:
 - 1.4.2.3.1 The support activity is directly related to the construction site required to have permit authorization for discharges of storm water associated with construction activity under this permit;
 - 1.4.2.3.2 The support activity is not a commercial operation serving multiple unrelated construction projects by different permittees;
 - 1.4.2.3.3 The support activity does not operate beyond the completion of the construction activity at the project it supports; and
 - 1.4.2.3.4 Appropriate control measures are identified in the Storm Water Pollution Prevention Plan (SWPPP) and pollutant discharges are minimized in compliance with Parts 3.0 and 4.0 of the permit.
 - 1.4.2.4 Discharges composed of allowable discharges listed in Parts 1.4.2 and 1.4.3 commingled with a discharge authorized by a different APDES permit and/or a discharge that does not require APDES permit authorization.
- 1.4.3 **Authorized Non-Storm Water Discharges.** Subject to compliance with the terms and conditions of this permit, the following non-storm water discharges are authorized under this general permit, provided the non-storm water component of that the discharge is in compliance with the SWPPP requirements in Part 5.3.9:

- 1.4.3.1 Discharges from fire-fighting activities;
- 1.4.3.2 Fire hydrant flushings;
- 1.4.3.3 Waters used to wash vehicles where detergents are not used;
- 1.4.3.4 Water used to control dust;
- 1.4.3.5 Potable water including uncontaminated water line flushings;
- 1.4.3.6 Routine external building wash down where detergents are not used;
- 1.4.3.7 Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used;
- 1.4.3.8 Uncontaminated air conditioning or compressor condensate;
- 1.4.3.9 Uncontaminated, non-turbid discharges of ground water or spring water;
- 1.4.3.10 Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated groundwater;
- 1.4.3.11 Uncontaminated construction dewatering waters that are treated by an appropriate control measure in compliance with Part 4.4.2, or have been treated with treatment chemicals in compliance with Part 4.6; and
- 1.4.3.12 Landscape irrigation.

1.4.4 Limitations on Coverage. The following discharges are not authorized under this permit:

- 1.4.4.1 **Post-Construction Discharges.** Discharges that originate from the project after construction activities have ceased and a Notice of Termination (NOT) has been submitted in accordance to Part 10.0, including any temporary support activity.
- 1.4.4.2 **Discharges that May Exceed Water Quality Standards.** Discharges that DEC, prior to authorization under this permit, determines will cause, have the reasonable potential to cause, or contribute to an excursion above any applicable water quality standard (WQS). Where such a determination is made prior to authorization, DEC may notify the applicant that an individual permit application is necessary in accordance with Part 2.8. However, DEC may provide permit authorization after the applicant has included appropriate controls and implementation procedures designed to bring the discharge into compliance with WQS's in accordance with Part 3.1.
 - 1.4.4.2.1 For details on how this applies to excavation dewatering, see Part 4.4.
- 1.4.4.3 **Discharges to Water Quality Impaired Waters.** Discharges into receiving waters that are listed as impaired waters in the report *Alaska's Final 2024 Integrated Water Quality Monitoring and Assessment Report*, dated February 2025 (or the most current EPA-approved version, <https://dec.alaska.gov/water/water-quality/integrated-report/>), or with an approved or established TMDL analysis, unless the discharges are in accordance with Part 3.2.
- 1.4.4.4 **Comingled Discharges.** Discharges that are mixed with non-storm water, unless they are listed as allowable non-storm water discharges in Part 1.4.3.
- 1.4.4.5 **Discharges Currently or Previously Covered by another Permit.** Unless the permittee received written notification from DEC specifically allowing these discharges to be authorized under this permit, the permittee is not eligible for coverage under this permit for any of the following:

- 1.4.4.5.1 Storm water discharges associated with construction activity that have been covered under an individual permit, an alternative APDES general permit, or are required to obtain authorization under an alternative general permit in accordance with Part 2.8.
 - 1.4.4.5.2 Discharges from sites where any APDES permit has been or is in the process of being denied, terminated, or revoked by DEC (*this does not apply to the routine reissuance of permits every five years*).
 - 1.4.4.6 **Discharges of Dredged or Fill Material.** Discharges of dredged or fill material into waters of the U.S. requiring federal authorization through the U.S Army Corps of Engineers CWA Section 404 Regulatory Program.
 - 1.4.4.7 **Discharges from Nondomestic Treatment Works.** Discharges of storm water to the land or groundwater from a nondomestic wastewater treatment works (as defined in 18 AAC 72) using permanent storm water management controls unless they are in compliance with 18 AAC 72.600 and EPA Underground Injection Control regulations¹.
- 1.4.5 Emergency Repairs or Reconstruction of a Facility**
- 1.4.5.1 Discharges from construction activities conducted in response to a disaster (as defined in Alaska Statute 26.23.900) are conditionally authorized, provided that the operator does the following:
 - 1.4.5.1.1 Submits a Notice of Intent (NOI) and SWPPP (if project disturbs five or more acres in accordance with Part 2.1) to the Department in accordance with Part 2.3 and 2.4 within 30 calendar days of initiating construction activities.
 - 1.4.5.1.2 Implements appropriate control measures as soon as possible after initiating construction activities. For discharges occurring during the initial 30 day period, the permittee must demonstrate compliance with the terms and conditions of this permit to the extent practicable depending on the disaster.

1.5 Waivers for Certain Small Construction Activities

- 1.5.1 **Waiver Criteria.** An operator of a small construction activity may qualify for a waiver in lieu of obtaining authorization under this permit if one of the following three criteria are met. Details of the three waiver options and procedures for requesting a waiver are provided in Appendix D:
 - 1.5.1.1 The project has a low rainfall erosivity factor;
 - 1.5.1.2 DEC or EPA has established or approved a TMDL that addresses the pollutant(s) of concern and has determined storm water control measures are not needed to protect water quality;
 - 1.5.1.3 The operator develops an equivalent analysis that determined allocations for pollutant(s) of concern are not needed to protect water quality. This waiver is only available for non-impaired waters.

¹ For additional information refer to DEC's Engineered Wastewater Disposal System web page at <https://dec.alaska.gov/water/wastewater/engineering/engineered-systems> and EPA's Underground Injection Control web page at <https://www.epa.gov/uic/underground-injection-control-region-10-ak-id-or-and-wa>

2.0 AUTHORIZATION UNDER THIS GENERAL PERMIT

2.1 Submittal Requirements Prior to Construction Depending on the type and location of the project, the operator may be required to submit information to the DEC and/or an MS4 operator for review prior to filing the NOI and commencement of construction activities. The following is a summary of the information to be submitted to each agency by project type and area of jurisdiction.

- 2.1.1 **Permanent Storm Water Management Controls (Outside MS4).** An operator installing permanent storm water management controls in accordance with Part 4.11 and where the project is located outside of an APDES permitted MS4, must submit information required by the DEC in Part 4.11 at least thirty (30) calendar days prior to filing the NOI for the project. The operator must receive the DEC's written reply prior to the commencement of construction activities.
- 2.1.2 **Permanent Storm Water Management Controls (Inside MS4).** An operator installing permanent storm water management controls in accordance with Part 4.11 and where the project is located inside the area of an APDES permitted MS4 must submit information required by the MS4 operator for the project and must receive the MS4 operator's approval prior to the commencement of construction activities. Check with the respective MS4 operator for their particular submittal requirements. (*See <https://dec.alaska.gov/water/wastewater/stormwater/permits-approvals/construction/swppp-submittal-rqmts/> for further MS4 operator contact information.*)
- 2.1.2.1 Operators of construction activity within the Municipality of Anchorage (with the exception of Alaska Department of Transportation & Public Facilities [DOT&PF], see 2.1.2.2) shall submit information to:
- Municipality of Anchorage
Public Works Department
4700 South Elmore Rd.
P.O. Box 196650
Anchorage, AK 99519-6650
- 2.1.2.2 Operators of construction activities for DOT&PF construction projects within the Municipality of Anchorage shall submit information to:
- DOT&PF
Construction and Operations, Central Region
4111 Aviation Ave.
P.O. Box 196900
Anchorage, AK 99519
- 2.1.2.3 Operators of construction activity within the Fairbanks North Star Borough shall submit information to:
- Fairbanks North Star Borough
Department of Public Works
P.O. Box 71267
Fairbanks, AK 99707

- 2.1.2.4 Operators of construction activity within the City of Fairbanks shall submit information to:
- City of Fairbanks
 - Engineering Division
 - 800 Cushman St.
 - Fairbanks, AK 99701
- 2.1.2.5 Operators of construction activity within the City of North Pole shall submit information to:
- City of North Pole
 - Department of Public Works
 - 125 Snowman Lane
 - North Pole, AK 99705
- 2.1.2.6 Operators of construction activity within the Joint Base Elmendorf-Richardson shall submit information to:
- Storm Water Lead
 - 673rd CES/CEIEC
 - 724 Quartermaster Drive
 - Joint Base Elmendorf-Richardson, AK 99506
- 2.1.2.7 Operators of construction activity within the Port of Anchorage shall submit information to:
- Don Young Port of Alaska
 - Operations and Maintenance
 - 1871 Anchorage Port Road
 - Anchorage, AK 99501
- 2.1.2.8 Operators of construction activity within Fort Wainwright shall submit information to:
- Water Quality Program
 - US Army Garrison, Alaska DPW, Environmental Division
 - 3023 Engineer Place
 - Fort Wainwright, AK 99703
- 2.1.3 **SWPPP Submittal to DEC.** An operator developing a project that disturbs five or more acres of land must submit a copy of the SWPPP to the DEC at the time the NOI is submitted, included as an attachment.
- 2.1.4 **SWPPP Submittal to MS4.** An operator developing a project that is located inside the area of an APDES permitted MS4 must submit a copy of the SWPPP to the respective MS4 operator. Check with the respective MS4 operator for their particular submittal requirements. (<https://dec.alaska.gov/water/wastewater/stormwater/permits-approvals/construction/swppp-submittal-rqmts/> for further MS4 operator contact information.)
- 2.1.4.1 Within the Municipality of Anchorage
- 2.1.4.1.1 An operator of construction projects disturbing one or more acres of land shall submit a copy of the SWPPP to either DEC or the Municipality based on the project type and operator as shown in the following table.

Table 3: SWPPP Submittal within Municipality of Anchorage MS4 area.

Project Type	Submit SWPPP to
Government (Federal, state, or Port of Anchorage) road projects and other government sponsored transportation projects such as ports, railroads, or airports	DEC
Government (municipal) road projects and other government transportation projects	Municipality
Public or private utility projects when the utility is initiating the work	Municipality
Work that requires a building permit	Municipality
Non-publicly funded transportation projects	Municipality

2.1.4.1.2 Submittal of the SWPPP to the Municipality shall be made according to the most recent Municipality requirements and be submitted to the address given in Part 2.1.2.1

2.1.4.1.3 Submittal of the SWPPP using DEC's Environmental Data Management System EDMS: <https://dec.alaska.gov/water/edms>.

2.1.4.2 Within the road service areas of the Fairbanks North Star Borough, check with the Borough for the latest SWPPP submittal requirements at the address given in Part 2.1.2.3. An operator of a publicly-funded project disturbing one or more acres of land shall submit a copy of the SWPPP to the DEC for review at the address in Appendix A, Part 1.1.1.

2.1.4.3 Within the City of Fairbanks, check with the City for the latest SWPPP submittal requirements at the address given in Part 2.1.2.4. An operator of a public-funded project disturbing one or more acres of land shall submit a copy of the SWPPP to the DEC for review at the address in Appendix A, Part 1.1.1.

2.1.4.4 Within the City of North Pole, check with the City for the latest SWPPP submittal requirements at the address given in Part 2.1.2.5. An operator of a public-funded project disturbing one or more acres of land shall submit a copy of the SWPPP to the DEC for review at the address in Appendix A, Part 1.1.1.

2.1.4.5 Within the Joint Base Elmendorf-Richardson, check with the latest SWPPP submittal requirements at the address given in Part 2.1.2.6.

2.1.4.6 Within the Port of Anchorage, check with the latest SWPPP submittal requirements at the address given in Part 2.1.2.7.

2.1.4.7 Within the Fort Wainwright installation boundary, check with the latest SWPPP submittal requirements at the address given in Part 2.1.2.8.

2.1.5 **Projects Using Cationic Treatment Chemicals or an Active Treatment System.** Submit engineering plans and projects details listed in Part 4.6.7 to DEC (Appendix A, Part 1.1.1) at least 14 calendar days prior to use at the construction site.

2.1.6 **Projects that Discharge to an Outstanding Natural Resource Water.** Contact DEC at least 30 calendar days prior to commencement of construction activities that may discharge to a high quality water that constitutes an outstanding national resource, such as a water of a national or state park or wildlife refuge or a water of "exceptional recreational or ecological significance" (as described in Appendix C), to discuss the need to conduct a site-specific antidegradation analysis. If an antidegradation analysis is required, it must be submitted at least 14 calendar days prior to filing the NOI. Before beginning construction activities, operators must receive a written approval of the analysis from the DEC.

Note: No Outstanding Natural Resource Waters are designated in Alaska as of the date of this permit issuance.

2.2 How to Obtain Authorization

- 2.2.1 To obtain authorization under this permit, an operator must:
- 2.2.1.1 Be responsible for a project located in the area where DEC is the permitting authority;
 - 2.2.1.2 Meet the eligibility requirements of Part 1.4;
 - 2.2.1.3 Develop a SWPPP according to the requirements in Part 5.0 prior to filing for an NOI and submit a copy of the SWPPP as specified in Part 2.1;
 - 2.2.1.4 Select, design, install, and implement control measures in accordance with Part 4.0 to meet non-numeric effluent limits;
 - 2.2.1.5 Submit a complete and accurate NOI using DEC's Environmental Data Management System EDMS: <https://dec.alaska.gov/water/edms>. in accordance with Part 2.3 prior to commencing construction activities;
 - 2.2.1.6 Pay the general permit authorization fees in accordance with 18 AAC 72.956;
 - 2.2.1.7 Submit any additional information requested by the DEC or MS4 Operator (if applicable); and
 - 2.2.1.8 Be granted authorization to discharge by the DEC.
- 2.2.2 Submission of the NOI demonstrates the operator's intent to be covered by this permit; it is not a determination by DEC that the operator meets the eligibility requirements for the permit. A discharge is **not authorized** if:
- 2.2.2.1 The operator's NOI is incomplete or inaccurate;
 - 2.2.2.2 DEC requires the operator to obtain authorization under an individual permit or an alternative general permit; or
 - 2.2.2.3 The discharge does not meet the eligibility requirements under Part 1.4.
- 2.2.3 If the information on the NOI is incorrect or is missing, the NOI will be deemed incomplete and permit authorization will not be granted. A complete NOI shall include the following information:
- 2.2.3.1 **Operator:** organization name, contact person and title, complete mailing address, telephone number, and email address;
 - 2.2.3.2 **Billing Contact:** organization name, contact person and title, complete mailing address, telephone number and email address. If the billing contact information is the same as the operator information, check the box on the NOI indicating that it is the same;
 - 2.2.3.3 **Project/site:** project/site name, a physical location, the nearest city and zip code, the borough, latitude and longitude, how the latitude and longitude were determined, and estimated project start date and completion date, and an estimate of the area to be disturbed;
 - 2.2.3.4 **SWPPP:** acknowledgement of whether a SWPPP has been prepared in advance of filing the NOI, the location of the SWPPP – either with the operator, the project/site, or other location, SWPPP contact if different than the operator contact;
 - 2.2.3.5 **Discharge:** the name(s) of the waterbody to which the project discharges, identification if the project/site discharges to a waterbody that is impaired or has a TMDL, if so, confirmation that the discharge is consistent with the assumptions and requirements of the TMDL;
 - 2.2.3.6 Signatory information in compliance with Appendix A, Part 1.12.

2.3 How to Submit a Notice of Intent (NOI)

- 2.3.1 **Submittal Options.** Each operator must submit an NOI to be authorized to discharge under this permit at least five business days prior to commencement of construction activities. The complete and accurate NOI can be submitted either:
- 2.3.1.1 Submit a complete and accurate Notice of Intent (NOI) using DEC's Environmental Data Management System EDMS: <https://dec.alaska.gov/water/edms>.
 - 2.3.1.2 Applicants must pay the general permit authorization fee (in accordance with 18 AAC 72.956) before their NOI is considered complete.

2.4 Submission Deadlines

- 2.4.1 **New Projects.** The operator must submit a complete and accurate NOI and SWPPP (if project disturbs five or more acres in accordance with Part 2.1) prior to commencement of construction activities consistent with Parts 2.2.1 and 2.3 to obtain authorization under this permit.
- 2.4.2 **Permitted Ongoing Projects.**
- 2.4.2.1 An ongoing permitted project is one that commenced construction activities prior to the effective date of this permit and where the discharges from that project were authorized under the 2021 CGP (AKR100000). To continue coverage, a permittee must:
 - 2.4.2.1.1 Continue to comply with the terms and conditions of the 2021 CGP until the permittee has been granted authorization under this permit or an alternative APDES permit, or submits a NOT;
 - 2.4.2.1.2 Update the existing SWPPP as necessary to comply with the requirements of Part 3.0, Part 4.0 and Part 5.0 before submitting a new NOI, as described in Part 2.4.2.1.3; and
 - 2.4.2.1.3 Submit a complete and accurate new NOI within 90 calendar days of the effective date of this permit according to Part 2.3. A copy of the updated SWPPP and permit fee is not required to be submitted with the NOI to DEC for permitted ongoing projects.
 - 2.4.2.2 If the permittee is eligible to submit a NOT (e.g., construction is finished and final stabilization has been achieved) before the 90th day, a new NOI is not required to be submitted provided a NOT is submitted within 90 calendar days after the effective date of this permit.
- 2.4.3 **Change of Permittee for an Authorized Ongoing Project.**
- 2.4.3.1 A permittee of an ongoing project who transfers ownership of the project, or a portion thereof, to a different operator, the new operator will be required to submit a complete and accurate new NOI for a new project in accordance with Part 2.3.1 and the original permittee must submit a NOT in accordance with Part 2.7.5.
- 2.4.4 **Unpermitted Ongoing Project/Late Notification.**
- An operator who commences construction activities without authorization to discharge for a project that requires submission of a NOI consistent with Part 2.2 must develop and/or update a project-specific SWPPP and submit a complete and accurate NOI consistent with Part 2.3 as soon as practicable. The applicant is authorized to discharge in accordance with Part 2.5. The DEC reserves the right to take enforcement action for any unpermitted discharges or permit non-compliance that occurs between the commencement of construction and discharge authorization.

2.5 Date of Authorization to Begin Discharge

Authorization to discharge under this general permit requires the operator seeking authorization to submit to DEC a complete and accurate NOI and payment of fee. If the project disturbs five or more acres, a copy of the SWPPP must be submitted in accordance with Part 2.1 prior to commencement of construction activities consistent with Parts 2.2.1 and 2.3.. The operator must receive written notification of authorization from DEC that coverage has been granted, and that a specific authorization number has been assigned prior to construction activities.

A permittee is authorized to discharge storm water from construction activities under the terms and conditions of this general permit upon the date specified in the issuance of the DEC authorization letter, which is posted at:

<https://dec.alaska.gov/Applications/Water/EDMS/nsite/map/help>.

2.6 Continuation of Expired General Permit

If this permit is not reissued prior to the expiration date, it will be administratively continued in accordance with 18 AAC 83.155(c) and remain in force and effect for discharges that were covered prior to expiration.

- 2.6.1 The permittee is required to abide by all limitations, monitoring, and reporting included herein if the permit enters administrative extension until such time a permit is reissued authorizing the discharge or an NOT is submitted by the permittee.
- 2.6.2 A permittee who is authorized to discharge under this permit prior to the expiration date, any discharges authorized will automatically remain covered by this permit until the earliest of:
 - 2.6.2.1 Authorization for coverage under a reissued permit or replacement of this permit following a permittee's timely and appropriate submittal of a complete NOI requesting authorization to discharge under the new permit and compliance with the requirements of the new permit;
 - 2.6.2.1.1 If a permittee fails to submit a timely NOI for coverage under the reissued or replacement permit, the permittee's coverage will expire at midnight on the date that the NOI is due.
 - 2.6.2.2 Submittal of a NOT;
 - 2.6.2.3 Issuance of an individual permit for the project's discharges; or
 - 2.6.2.4 A formal permit decision by DEC to not reissue this general permit or not cover a particular discharger previously covered by the general permit, at which time DEC will identify a reasonable time period for covered dischargers to seek coverage under an alternative general permit or an individual permit. Coverage under this permit will cease at the end of this time period.

2.7 Submittal of a Modification to Original NOI

- 2.7.1 **Modification.** A permittee must submit an NOI modification form to DEC (see Part 2.3) to update or correct the following information on the original NOI within 30 calendar days of the change:
 - 2.7.1.1 Owner/Operator address and contact information;
 - 2.7.1.2 Site information;
 - 2.7.1.3 Estimated start or end dates;
 - 2.7.1.4 Number of acres to be disturbed; or

- 2.7.1.5 SWPPP location and contact information.
- 2.7.2 Continuation of expired permit in accordance with Part 2.6.
- 2.7.3 If the original project disturbance was between one and less than five acres, and will now disturb five acres or more, a SWPPP must be submitted with the NOI modification.
- 2.7.4 No general permit authorization fee is required when submitting an NOI modification.
- 2.7.5 **NOT Instead of Modification.** The permittee must submit a NOT instead of an NOI modification form to DEC within 30 calendar days when the operator has changed. A change of operator in this case means when an organization changes control of the project. It does not mean when a corporate officer of the organization changes while the organization continues with the project. The new owner/operator must submit a new NOI to obtain coverage under the CGP. Coverage is not transferrable.

2.8 Alternative Permits

2.8.1 DEC Requiring Authorization under an Alternative Permit

DEC may terminate or revoke a permittee's authorization under this permit and may require a permittee to apply for and/or obtain authorization to discharge under an alternative permit (i.e., an APDES individual permit or an alternative APDES general permit in accordance with 40 CFR §122.64 and §124.5). If DEC requires a permittee to apply for an alternative permit, DEC will notify the permittee in writing that a permit application is required. This notification will include a brief statement of the reasons for this decision, alternative permit application requirements, and an application form. In addition, the notice will set a deadline to submit the application, and will include a statement that on the effective date of issuance or denial of the APDES individual permit, or the effective date of authorization or denial of authorization under the alternative general permit as it applies to the permittee, authorization under this general permit will automatically terminate. An application must be submitted using EDMS. DEC may grant additional time to submit the application upon a written request by the permittee provided the request is received prior to expiration of the deadline. If the permittee is covered under this permit and fails to submit an alternative permit application in a timely manner as required by DEC, then the authorization under this permit will automatically terminate at the end of the day specified by DEC as the deadline for application submittal. The DEC may take appropriate enforcement action for any unpermitted discharge.

2.8.2 Operator Requesting Authorization under an Alternative Permit

An operator may request to be excluded from coverage under this general permit by applying for an individual permit. The operator must submit an individual permit application in accordance with 18 AAC 83.305 – 83.385 to DEC no later than ninety (90) days after publication of the general permit to the address in Appendix A, Part 1.1.1. DEC may grant the request by issuing an individual permit or authorization under an alternative general permit if DEC deems that the reasons cited are adequate to support the request.

- 2.8.3 When a permittee is issued an APDES individual permit or is authorized to discharge under an alternative APDES general permit, the authorization under this permit is automatically terminated on the effective date of the individual permit or the date of authorization under the alternative general permit, whichever the case may be. If the permittee is denied an APDES individual permit or an alternative APDES general permit, the authorization under this permit is automatically terminated on the date of such denial, unless otherwise specified by DEC.

3.0 COMPLIANCE WITH STANDARDS AND LIMITS

3.1 Requirements for all Projects

- 3.1.1 A permittee must select, install, implement, and maintain control measures (described in Part 4.0) at the construction site to minimize the discharge of pollutants as necessary to meet WQS's (18 AAC 70). A permittee must comply with all permit conditions with respect to installation and maintenance of control measures, inspections, monitoring (if necessary), corrective actions, reporting and recordkeeping.
- 3.1.2 In general, except in situations explained in Part 3.1.3, the storm water controls planned, developed, implemented, maintained, and updated by the permittee that are consistent with the provisions of Parts 3.0 through 9.0 are considered to meet the stringent requirements of this permit to ensure that the discharges do not cause or contribute to an excursion above any WQS (18 AAC 70).
- 3.1.3 At any time after authorization, DEC may determine that the permittee's storm water discharges will cause, have reasonable potential to cause, or contribute to an excursion above any applicable WQS. If such a determination is made, DEC may require the permittee to:
 - 3.1.3.1 Take corrective actions and modify storm water controls in accordance with Part 8.0 to adequately address the identified water quality concerns;
 - 3.1.3.2 Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining WQSs; or
 - 3.1.3.3 Minimize discharges of storm water from the construction project and submit an individual permit application in accordance with Part 2.8.
- 3.1.4 All written responses required under this part must include a signed certification consistent with Appendix A, Part 1.12.

3.2 Discharge to Impaired Water Body

If the permittee is discharging into a water body with an EPA-established or approved TMDL, the permittee must implement measures to ensure that the discharge of pollutants from the site is consistent with the assumptions and requirements of the EPA-established or approved TMDL, including ensuring that the discharge does not exceed specific wasteload or load allocation that has been established that would apply to the discharge. The permittee must also evaluate the recommendation in the Implementation Section of the TMDL and incorporate applicable measures into the operation.

3.2.1 Discharging to an Impaired Water Body for Turbidity or Sediment (Category 5)

- 3.2.1.1 Permittees who (1) discharge into a water body that is listed on Alaska's 303(d) List of Impaired Waters (Category 5) for turbidity or sediment (<https://dec.alaska.gov/water/water-quality/integrated-report/>) and (2) disturbs 20 or more acres of land at one time (including non-contiguous land disturbances that take place at the same time and are part of a larger common plan of development or sale) that drains to an impaired water must:
 - 3.2.1.1.1 Develop, implement, and modify as necessary a written site-specific monitoring plan consistent with Part 7.0 that specifies the sampling frequency and location.
 - 3.2.1.1.2 Conduct turbidity sampling at the following locations to evaluate compliance with the WQS for turbidity;

- 3.2.1.1.2.1 Upstream turbidity in the impaired water at a representative location (upgradient) from the point of storm water discharge into the impaired water or outside the area of influence of the storm water discharge; and
- 3.2.1.1.2.2 Downstream turbidity at a representative location downstream from the point of discharge into the impaired water, inside the area of influence of the storm water discharge. Alternatively, the discharge turbidity may be measured at the point where the storm water discharge leaves the construction site, rather than when it is in the receiving water body.
- 3.2.1.1.3 Based on the sampling (as described in Part 3.2.1.1.2), the resulting water quality must meet the state WQS for turbidity, as follows:
 - 3.2.1.1.3.1 The downstream sample may not exceed 5 nephelometric turbidity units (NTU) above the upstream sample when the upstream turbidity is 50 NTU or less; and
 - 3.2.1.1.3.2 The downstream sample may not have more than 10% increase in turbidity when the upstream turbidity is more than 50 NTU, not to exceed a maximum increase of 25 NTU.
- 3.2.1.1.4 If the difference between the upstream and downstream sample exceeds the WQS for turbidity, the permittee must:
 - 3.2.1.1.4.1 Review the SWPPP and the control measures selected for the project and make appropriate improvements and corrections to the control measures within seven calendar days of the date the discharge exceeds the WQS;
 - 3.2.1.1.4.2 Update the SWPPP with the improvements and changes to the control measures;
 - 3.2.1.1.4.3 Submit a corrective action report consistent with Part 9.2; and
 - 3.2.1.1.4.4 Continue to sample daily until the discharged storm water is less than the WQS for turbidity for the receiving water.
- 3.2.2 **Discharging to an Impaired Water Body with an Approved or Established TMDL for Turbidity or Sediment (Category 4a or 4b)**
 - 3.2.2.1 Operators are not eligible for authorization under this permit if:
 - 3.2.2.1.1 An EPA-approved or established TMDL specifically precludes such discharges; or
 - 3.2.2.1.2 The project involves a discharge of pollutants of concern (e.g. turbidity, sediment, debris, etc.) to waters with an EPA-approved or established TMDL for turbidity or sediment, unless control measures are implemented as necessary for consistency with the assumptions and requirements of the TMDL.
 - 3.2.2.2 If a specific wasteload or load allocation has been established for turbidity or sediment that would apply to the discharge of storm water from the construction site, the permittee must implement necessary steps to meet that allocation. The permittee must also evaluate the implementation measures recommended in the TMDL and incorporate them as appropriate.
 - 3.2.2.3 In a situation where an EPA-approved or established TMDL for turbidity or sediment has specified a general wasteload or load allocation for a pollutant of concern (e.g. turbidity, sediment, debris, etc.) that is applicable to construction storm water discharges, but no specific requirements for construction sites have been identified in the TMDL, the permittee should consult with DEC to confirm that meeting the standards in Parts 3.0 and 4.0 will be consistent with the approved TMDL.

- 3.2.2.4 Where an EPA-approved or established TMDL has not specified a wasteload or load allocation applicable to construction storm water discharges, but has not specifically excluded these discharges, compliance with the requirements in Parts 3.0 and 4.0 of this permit will generally be assumed to be consistent with the approved TMDL.

3.3 Protection of Endangered Species

A permittee must protect federally-listed endangered or threatened species, or federally-designated critical habitat.

- 3.3.1 An applicant is not eligible to discharge if the storm water discharges, allowable non-storm water discharges, and storm water discharge-related activities (as defined in Appendix C) are likely to jeopardize the continued existence of any species that are federally-listed as endangered or threatened (listed) under the ESA or result in the adverse modification or destruction of federally-designated critical habitat under the ESA.
- 3.3.2 An applicant is not eligible to discharge if the storm water discharges, allowable non-storm water discharges, and storm water discharge-related activities (as defined in Appendix C) would cause a prohibited take of federally-listed endangered or threatened species (as defined under Section 3 of the ESA and 50 CFR §17.3), unless such takes are authorized under Sections 7 or 10 of the ESA.

4.0 CONTROL MEASURES

4.1 Control Measure Selection and Design Considerations

- 4.1.1 Permittees must select, design, install, and implement the control measures in this Part to the extent practicable. The specific control measures are based on the requirements of the national effluent limitation guidelines (ELG) that apply to the construction and development industry (40 CFR §450).
- 4.1.2 The selection, design, installation, maintenance, and removal of control measures must be in accordance with good engineering practices manufacturer specifications and address site-specific conditions such as precipitation, site topography, soil characteristics, and growing season. Permittees may deviate from such manufacturer's specifications where the permittee provides justification for such deviation and includes documentation of their rationale in the SWPPP. If a permittee finds that their control measures are not achieving their intended effect of minimizing pollutant discharges, the permittee must modify these control measures in accordance with the corrective action requirements set forth in Part 8.0.
- 4.1.3 Erosion and Sediment Controls. A permittee must design, install, and maintain effective erosion and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed, and maintained to:
- 4.1.3.1 Control storm water volume and velocity to minimize soil erosion and pollutant discharges;
 - 4.1.3.2 Control storm water discharges, including both peak flowrates and total storm water volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
 - 4.1.3.3 Minimize the amount of soil exposed during construction activity;
 - 4.1.3.4 Minimize the disturbance of steep slopes;

- 4.1.3.5 Minimize sediment discharges from the site. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity, duration of precipitation; the nature of resulting storm water runoff; and soil characteristics, including the range of soil particle sizes expected to be present on the site;
 - 4.1.3.6 Provide and maintain natural buffers around waters of the U.S. **Error! Reference source not found.**, direct storm water to vegetated areas and maximize storm water infiltration to reduce pollutant discharges, unless infeasible;
 - 4.1.3.7 Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates it be compacted.
 - 4.1.3.8 Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.
- 4.1.4 Additional Erosion and Sediment Controls Selection and Design Considerations:
- 4.1.4.1 Preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than removing pollutants from storm water;
 - 4.1.4.2 Using a combination of control measures is more effective than using control measures in isolation for minimizing pollutants in the storm water discharge;
 - 4.1.4.3 Using technologically available, economically practicable, and achievable methods in light of best industry practices;
 - 4.1.4.4 Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit;
 - 4.1.4.5 Minimizing impervious areas at the permittees facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce runoff and improve groundwater recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination;
 - 4.1.4.6 Dissipate storm water runoff into open vegetated swales and natural depressions to reduce in stream impacts of erosive flows;
 - 4.1.4.7 Conserving and/or restoring of riparian buffers will help protect streams from storm water runoff and improve water quality; and
 - 4.1.4.8 Using treatment interceptors (e.g., sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

4.2 Erosion Control Measures

A permittee must comply with the erosion control measures in this Part to minimize soil exposure on the site during construction.

4.2.1 Delineation of Site

A permittee must generally delineate (e.g., with flags, stakes, signs, silt fence, etc.) the location of any of the following that apply to the site:

- 4.2.1.1 All areas where soil disturbing construction activities will occur; and
- 4.2.1.2 Specific areas that will be left undisturbed such as trees, boundaries of sensitive areas, or buffers established under Part 4.2.3.

4.2.2 Minimize the Amount of Soil Exposed during Construction Activity

A permittee must include the following in the selection of control measures and the sequence of project construction as they apply to the project site:

- 4.2.2.1 Preserve native topsoil for later use with on-site stockpiles, unless deemed infeasible by space constraints or site design creates impervious surfaces; and
- 4.2.2.2 Sequence or phase construction activities to minimize the extent and duration of exposed soils.

4.2.3 Maintain Natural Buffer Areas

A permittee must maintain natural buffer areas at stream crossings and around the edge of any waters of the U.S. that are located within or immediately adjacent to the construction activity in accordance with the following:

- 4.2.3.1 The buffer must be a minimum of 25 feet wide, or the width as required by local ordinance, except where required project features are to be sited within the buffer. Disturbance within the buffer must be minimized around such features;
- 4.2.3.2 Exceptions are allowed for water dependent activities, specific water access activities, or necessary water crossings;
- 4.2.3.3 A permittee should, to the extent practicable, use perimeter controls adjacent to buffers and direct storm water sheet flow to buffer areas to increase sediment removal and maximize storm water infiltration.

4.2.4 Clearing Vegetation

- 4.2.4.1 Clearing of vegetation that disturbs the vegetative mat and exposes soil is **prohibited** prior to obtaining authorization under this permit.
- 4.2.4.2 Cutting of trees and brush while the ground is frozen without disturbing the vegetative mat early in the springtime to avoid adversely affecting migratory birds or their nests in accordance with the U.S. Fish & Wildlife Service's "Nesting Birds: Timing Recommendations to Avoid Land Disturbance & Vegetation Clearing"² is allowed prior to the submittal of a project NOI. If vegetation clearing that disturbs the vegetative mat and occurs after the onset of spring thaw (as defined in Appendix C) or conditions that consist of above freezing temperatures that cause melting of snow, the permittee must develop a SWPPP and submit an NOI. Operators must receive authorization under this permit and otherwise comply with the terms of this permit prior to such clearing.

4.2.5 Control Storm Water Discharges and Flow Rates

A permittee must include the following control measures to handle storm water and total storm water volume discharges as they apply to the site:

- 4.2.5.1 Divert storm water around the site so that it does not flow onto the project site and cause erosion of exposed soils (diverting storm water around the site can be effective measure as long as it does not cause flooding and/or erosion offsite);
- 4.2.5.2 Slow down or contain storm water that may collect and concentrate within a site and cause erosion of exposed soils;
- 4.2.5.3 Avoid placement of structural control measures in active floodplains to the degree technologically and economically practicable and achievable;

² <https://www.fws.gov/media/timing-recommendations-land-disturbance-vegetation-clearingpdf>

- 4.2.5.4 Place velocity dissipation devices (e.g., check dams, sediment traps, or riprap) along the length of any conveyance channel (of erodible materials) to provide a non-erosive flow velocity. Also place velocity dissipation devices where discharges from the conveyance channel or structure join a water course to prevent erosion and to protect the channel embankment, outlet, adjacent stream bank slopes, and downstream waters; and
- 4.2.5.5 Install permanent storm water management controls, where practical, so that they are functional prior to construction of site improvements (e.g., impervious surfaces).

4.2.6 **Protect Steep Slopes**

A permittee must consider the following in the selection of control measures as they apply to the project site:

- 4.2.6.1 Design and construct cut-and-fill slopes in a manner that will minimize erosion. Applicable practices include, but are not limited to, reducing continuous length of slope with terracing and diversions, reducing slope steepness, and roughening slope surfaces (e.g., track walking);
- 4.2.6.2 Divert concentrated flows of storm water away from and around the disturbed portion of the slope. Applicable practices include, but are not limited to interceptor dikes and swales, grass-lined channels, pipe slope drains, subsurface drains, check dams; and
- 4.2.6.3 Stabilize exposed areas of the slope in accordance with Part 4.5.

4.2.7 **Protect Permafrost Where Applicable**

Where applicable, BMPs shall address thermokarsting and thermal erosion of ice features, tundra, and permafrost. All sediment and erosion BMPs shall reduce or eliminate sediment accumulation which could adversely impact sensitive vegetation areas (e.g., tundra). Refer to the following manuals for guidance: *Alaska Storm Water Guide*.

<https://dec.alaska.gov/water/wastewater/stormwater/resources/guidance/>.

4.3 **Sediment Control Measures**

Sediment control measures (e.g. sediment ponds, traps, filters, etc.) must be constructed as one of the first steps in grading. These control measures must be functional before other land disturbing activities take place. A permittee must install, establish, and use any of the following control measures that apply to the project site.

4.3.1 **Storm Water Inlet Protection**

A permittee must install appropriate protection measures (e.g. filter berms, perimeter controls, temporary diversion dikes, etc.) to minimize the discharge of sediment prior to entry into storm water inlets located on site or immediately downstream of the site.

4.3.2 **Water Body Protection**

A permittee must install appropriate protection measures (e.g. velocity dissipation devices in accordance with Part 4.2.5.4) to minimize the discharge of sediment prior to entry into the water body for water bodies located on site or immediately downstream of the site.

4.3.3 **Down-Slope Sediment Controls**

A permittee must establish and use down-slope sediment controls (e.g., silt fence or temporary diversion dike) for any portion of the down-slope and side-slope perimeter where storm water will be discharged from disturbed areas of the site.

4.3.4 **Stabilized Construction Vehicle Access and Exit Points**

A permittee must establish construction vehicle access and exit points. Access and exit points should be limited to one route, if possible. If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize off-site impacts.

4.3.5 **Vehicle Track-Out**

A permittee must provide an effective way of minimizing off-site vehicle tracking of sediment from wheels to prevent track-out onto paved surfaces. Where sediment has been tracked-out from a site onto paved roads, sidewalks, or other paved areas outside of the site, remove the deposited sediment by the end of the same business day in which the track-out occurs or by the end of the next business day if track-out occurs on a non-business day. Remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. Permittees are prohibited from sweeping or using water to spray tracked-out sediment into any constructed or natural site drainage feature, storm drain inlet, or receiving water.

4.3.6 **Dust Generation**

A permittee must minimize the generation of dust through the application of water or other dust suppression techniques and prior to vehicle exit.

4.3.7 **Stockpile Management**

In accordance with Part 4.5.1, a permittee must stabilize or cover stockpiles, protect with sediment control measures. Locate soil stockpiles away from storm water inlets, water bodies, and conveyance channels, if possible. Install a sediment control measure along all downgradient perimeter areas.

- 4.3.7.1 The requirements in this Part do not apply to the storage of clean rock, such as rip rap, landscape rock, pipe bedding gravel, and boulders, that does not have the potential to release pollutants.

4.3.8 **Authorized Non-Storm Water Discharges**

A permittee must minimize any non-storm water authorized by this permit.

4.3.9 **Sediment Basins**, where applicable:

- 4.3.9.1 For common drainage locations that serve an area with 10 or more acres disturbed at one time, a temporary (or permanent) sediment basin that provides storage for a calculated volume of runoff from the drainage area from a 2-year, 24-hour storm, or equivalent sediment control measures, must be installed, maintained, and used where practicable until final stabilization of the site.

- 4.3.9.1.1 Where no such calculation has been performed, a temporary (or permanent) sediment basin providing 3,600 cubic feet of storage per acre drained, or equivalent sediment control measures, must be installed and used where practicable until final stabilization of the site. When computing the number of acres draining into a common location, it is not necessary to include flows from offsite areas and flows from on-site areas that are either undisturbed or have undergone final stabilization where such flows are diverted around both the disturbed area and the sediment basin.

- 4.3.9.1.2 In determining whether installing a sediment basin is practicable, the permittee may consider factors such as site soils, slope, available area on-site, etc. In any event, the permittee must consider public safety, especially as it relates to children, as a design factor for the sediment basin, and alternative sediment control measures must be used where site limitations would preclude a safe design.
- 4.3.9.2 For drainage locations which serve 10 or more disturbed acres at one time and where a temporary sediment basin or equivalent controls is not practicable, smaller sediment basins and/or sediment traps should be used. Silt fences, vegetative buffer strips, or equivalent sediment control measures are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions).
- 4.3.9.3 For drainage locations serving less than 10 acres, sediment traps should be used. Silt fences, vegetative buffer strips, or equivalent sediment control measures are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction area unless a sediment trap providing storage for a calculated volume of runoff from a 2-year, 24-hour storm event or 3,600 cubic feet of storage per acre drained is provided.
- 4.3.9.4 Surface outlets. When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible.

Note: No installation of sediment basins should be installed in permafrost areas. Installing sediment basins in the presence of permafrost is challenging and might not be practicable in some instances because permafrost creates poor surface drainage that hinders the infiltration of runoff. Also, the excavation of permafrost in summer can trigger thawing and instability.

4.4 Dewatering

- 4.4.1 If a construction activity includes excavation dewatering that may adversely impact a local drinking water well or is within 1,500 ft of a DEC-identified contaminated site or groundwater plume, the permittee may be required to obtain authorization under the DEC General Permit for Excavation Dewatering (AKG002000 or most current version) in addition to this permit.
- 4.4.2 A discharge from eligible dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless treated by appropriate control measures. Appropriate control measures include, but are not limited to, sediment basins or traps, dewatering tanks, weir tanks, or filtration systems designed to remove sediment. To the extent feasible, use vegetated, upland areas of the site to infiltrate dewatering water before discharge.

4.5 Soil Stabilization

A permittee must stabilize all disturbed areas of the site to minimize erosion and sedimentation and the resulting discharge of pollutants according to the requirements of this Part. A permittee must ensure that existing vegetation is preserved and a natural buffer is maintained wherever possible, and disturbed portions of the site are stabilized (Part 4.2.3). See Appendix C for definitions of Temporary Stabilization and Final Stabilization. A permittee should avoid using impervious surfaces for stabilization. Applicable stabilization control measures include, but are not limited to:

- Temporary and permanent seeding;
- Sodding;

- Mulching;
- Rolled erosion control product;
- Compost blanket;
- Soil application of Polyacrylamide (PAM);
- Early application of gravel base on areas to be paved; and
- Dust control.

4.5.1 **Minimum Requirements for Soil Stabilization.** A permittee must consider the selection and implementation of control measures and the sequence of project construction as they apply to the project site.

4.5.1.1 **Deadline to Initiate Stabilization.** Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other soil disturbing activities have permanently ceased on any portion of the site or temporarily ceased on any portion of the site and will not resume for a period exceeding:

4.5.1.1.1 Seven (7) calendar days for those areas of the state with a mean annual precipitation of forty (40) inches or greater; or

4.5.1.1.2 Fourteen (14) calendar days for those areas of the state with a mean annual precipitation less than forty (40) inches.

Note: In the context of this provision, “immediately” means no later than the end of the next work day, following the day when the soil disturbing activities have temporarily or permanently ceased.

Note: Soil disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume (i.e., the land will be idle) for a period of seven or 14 or more calendar days (dependent on mean annual precipitation from above), but such activities will resume in the future.

The timeframe above begins counting as soon as you know that construction work on a portion of your site will be temporarily ceased. In circumstances where you experience unplanned or unanticipated delays in construction due to circumstances beyond your control (e.g., sudden work stoppage due to unanticipated problems associated with construction labor, transportation difficulties delays due to weather and site or soil conditions, funding, or other issues related to the ability to work on the site; weather conditions rendering the site unsuitable for the continuation of construction work) and you do not know at first how long the work stoppage will continue, your requirement to immediately initiate stabilization is triggered as soon as you know with reasonable certainty that work will be stopped for the time period above. At that point, you must comply with Parts 4.5.1.1 and 4.5.1.2.

4.5.1.1.3 Types of activities considered to constitute initiation of stabilization, but is not limited to:

4.5.1.1.3.1 Prepping the soil for vegetative stabilization by performing all activities necessary to initially seed or plant the area to be stabilized or for non-vegetative stabilization by installing or application of physical, structural, or mechanical measures;

4.5.1.1.3.2 Applying mulch or other non-vegetative product to the exposed area;

4.5.1.1.3.3 Seeding or planting the exposed area;

- 4.5.1.1.3.4 Starting any of the activities in Part 4.5.1.1.3.1 - 4.5.1.1.3.3 on a portion of the area to be stabilized, but not on the entire area; or
- 4.5.1.1.3.5 Finalizing arrangements (e.g., delivery of stabilization products, scheduling the installation of the products) to have stabilization product fully installed in compliance with the applicable deadline for completing stabilization in Parts 4.5.1.1 and 4.5.1.2.
- 4.5.1.2 Deadline to Complete Temporary Stabilization Activities.** As soon as practicable, but no later than 14 calendar days after the initiation of soil stabilization measures consistent with Part 4.5.1.1, the following are required to be completed:
- 4.5.1.2.1 For vegetative stabilization, all activities necessary to initially seed or plant the area to be stabilized; and/or
- 4.5.1.2.2 For non-vegetative stabilization, the installation or application of all such non-vegetative measures to meet the definition of temporary stabilization (see Appendix C).
- Note: DEC may determine, based on an inspection carried out under Part 6.6 and corrective actions required under Part 8.1.1.4 Corrective Action Required by DEC, that the level of sediment discharge on the site makes it necessary to require a faster schedule for completing stabilization. For instance, if sediment discharges from an area of exposed soil that is required to be stabilized are compromising the performance of existing storm water controls, DEC may require stabilization to correct this problem and may take appropriate enforcement action.*
- 4.5.1.3 Exceptions to the Deadlines for Initiating and Completing Stabilization.**
- 4.5.1.3.1 *Projects in Arid or Semi-Arid, or Drought-Stricken Areas.* For those areas of the state with a mean annual precipitation is less than or equal to 20 inches and where initiating perennial vegetative stabilization measures is infeasible within 14 calendar days after construction activity has temporarily ceased, vegetative or non-vegetative stabilization measures must be initiated immediately.
- Note: In the context of this provision, “immediately” means no later than the end of the next work day, following the day when the soil disturbing activities have temporarily or permanently ceased.*
- 4.5.1.3.1.1 Immediately initiate, and within 14 calendar days complete, the installation of non-vegetative stabilization measures to prevent erosion.
- 4.5.1.3.1.2 If construction is occurring during a drought-stricken period, indicate in the SWPPP the beginning and ending dates of the drought-stricken period and your site conditions. Include the schedule for initiating and completing vegetative stabilization.
- 4.5.1.3.2 *Deadlines for projects that are affected by circumstances beyond the control of the permittee that delay the initiation and/or completion of vegetative stabilization as required in Parts 4.5.1.1 and/or 4.5.1.2.* If the permittee is unable to meet the deadlines in Parts 4.5.1.1 and/or 4.5.1.2 due to circumstances beyond the permittee’s control³, and is using vegetative cover for temporary stabilization, the permittee may comply with the following stabilization deadlines instead:

³ Examples include problems with the supply of seed stock or with the availability of specialized equipment, unsuitability of soil conditions due to excessive precipitation and/or flooding.

- 4.5.1.3.2.1 Immediately initiate, and within 14 calendar days complete, the installation of temporary non-vegetative stabilization measures to prevent erosion;
- 4.5.1.3.2.2 Complete all soil conditioning, seeding, watering or irrigation installation, mulching, and other required activities related to the planting and initial establishment of vegetation as soon as conditions or circumstances allow it on the site; and
- 4.5.1.3.2.3 Document the circumstances in the SWPPP that prevent meeting the deadlines required in Parts 4.5.1.1 and/or 4.5.1.2 and the proposed schedule for initiating and completing stabilization.
- 4.5.1.3.3 Winter Considerations, see Part 4.12.
- 4.5.1.3.4 In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed. Such areas must be constructed with appropriate control measures to minimize sedimentation, erosion, or the discharge of pollutants.
- 4.5.1.4 **Deadline to Complete Final Stabilization Activities.** A permittee must consider the selection and implementation of control measures and the sequence of project construction as they apply to the project site.
- 4.5.1.5 The permittee must within seven (7) calendar days of initiating final stabilization complete or continue maintenance for the following on any portion of the site that has reached final grading and for areas where clearing, grading, excavating, or other earth-disturbing activities have permanently ceased:
 - 4.5.1.5.1 All soil conditioning, seeding, watering, mulching, and any other required activities for the establishment of vegetative cover;
 - 4.5.1.5.2 The installation or application of all such measures for vegetative cover; and/or
 - 4.5.1.5.3 The placement of non-vegetative final stabilization measures.
- 4.5.2 **Stabilization Requirements for Terminating Permit Authorization**

To terminate authorization under this permit, final stabilization (as defined in Appendix C), must be achieved on all portions of the site for which a permittee is responsible and all ground disturbing construction activity or use of related support activities must be completed, in accordance with Part 10.2.1.1.

4.6 Treatment Chemicals

- 4.6.1 The use of treatment chemicals to reduce sediment in a storm water discharge is allowed provided that all the requirements of this Part are met. Use conventional sediment controls before and after the application of treatment chemicals. Chemicals may only be applied where storm water is treated upstream and is directed to a sediment control (e.g., sediment trap, sediment basin) before discharge.
- 4.6.2 Select appropriate treatment chemicals. Chemicals must be appropriately suited to the types of soils likely to be exposed during construction and present in the discharges being treated (i.e., the expected turbidity, pH, and flow rate of storm water flowing into the chemical treatment system or area, etc.)
- 4.6.3 Minimize discharge risk from stored chemicals. Store all treatment chemicals in leak-proof containers that are kept under storm-resistant cover and surrounded by secondary containment structures (e.g., spill berms, decks, spill containment pallets), with adequate spill kits available on-site to respond in the event of a discharge of treatment chemicals.

- 4.6.4 Use chemicals in accordance with good engineering practices and specifications of the chemical provider/supplier, and with dosing specifications and sediment removal design specifications provided by the provider/supplier of the applicable chemicals, or document in your SWPPP specific departures from these specifications and how they reflect good engineering practice.
- 4.6.5 Application of treatment chemicals through the use of manufactured products (e.g., gel bars, gel logs, floc blocks, etc.) must be used in combination with adequate ditch check dams, sediment traps, sediment basins, or physical control measure designed to settle out chemically treated storm water and minimize the presence of treatment chemicals before discharges reach waters of the U.S. . **Error! Reference source not found.** At a minimum there must be adequate ditch length downstream of the last manufactured product prior to reaching the discharge point into a waters of the U.S. ; to provide a place for sedimentation to occur.
- 4.6.6 Ensure proper training. Ensure that all persons who handle and use treatment chemicals at the construction site are provided with appropriate product-specific training, including but not limited to proper dosing requirements, handling, storage, and disposal.
- 4.6.6.1 Document the following in the SWPPP:
- 4.6.6.1.1 Specific chemicals and chemical treatment systems used;
- 4.6.6.1.2 Names and titles of person(s) who handle and apply treatment chemicals;
- 4.6.6.1.3 Title of training conducted, date, instructor name, and attendees.
- 4.6.7 If the permittee plans to use cationic treatment chemicals or an active treatment system (as defined in Appendix C) they must submit a request to the Department (Permitting Program, Appendix A part 1.1.1) fourteen (14) calendar days in advance of proposed usage. The request must include the following:
- 4.6.7.1 Operator Name, mailing address, phone number, and email address;
- 4.6.7.2 Project/Site name, physical address, contact name, phone number, email address and permit authorization number;
- 4.6.7.3 Site Map with all receiving waterbodies, proposed location of chemical treatment system, and proposed point of discharge into receiving waterbodies;
- 4.6.7.4 Schematic drawing of the proposed treatment system; and
- 4.6.7.5 Description of the proposed treatment system including; type of system being used, chemicals being used, estimated start and finish date, sampling and recordkeeping schedule and reporting, and name of treatment system operator or company.
- 4.6.8 The permittee must perform all additional measures as conditioned by the Department authorization to ensure that the use of such chemicals will not cause an exceedance of water quality standards.

4.7 Prohibited Discharge

- 4.7.1 **A permittee is prohibited from discharging the following from the site:**
- 4.7.1.1 Wastewater from concrete washout or rinsing of unset concrete, unless managed by an appropriate control measure;
- 4.7.1.2 Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other hazardous construction materials;
- 4.7.1.3 Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and

4.7.1.4 Soaps or solvents used in vehicle and equipment washing.

4.8 Good Housekeeping Measures

A permittee must design, install, implement, and maintain effective good housekeeping measures to prevent and/or minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to:

- Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to storm water. Minimization of exposure is not required in cases where the exposure to precipitation and to storm water will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of storm water contamination (such as final products and materials intended for outdoor use); and
- Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.

A permittee must include appropriate measures for any of the following activities that are used at the site.

- 4.8.1 **Washing of Equipment and Vehicles and Wheel Wash-Down.** If a permittee conducts washing of equipment or vehicles and/or wheel wash-down at the site the permittee must comply with the following requirements:
- 4.8.1.1 Designate areas to be used for washing of equipment and vehicles and/or wheel wash-down and conduct such activities only in these areas;
 - 4.8.1.2 Locate such activities, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S. **Error! Reference source not found.**;
 - 4.8.1.3 Treat all wash water in a sediment basin or use alternative control measures that provide equivalent or better treatment prior to discharge; and
 - 4.8.1.4 To comply with the prohibition in Part 4.7.1.4, the discharge of soaps and solvents used in equipment and vehicle washing and/or wheel wash-down is strictly prohibited.
- 4.8.2 **Fueling and Maintenance Areas.** If a permittee conducts fueling and/or maintenance activities for equipment and vehicles at the site the permittee must comply with the following requirements:
- 4.8.2.1 Designate areas to be used for fueling and/or maintenance of equipment and vehicles and conduct such activities only in these areas (the designated area may move from one location to another on linear projects);
 - 4.8.2.2 Locate such activities, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S.; and
 - 4.8.2.3 Minimize the exposure to precipitation and storm water or use secondary containment structures designed to eliminate the potential for spills or leaked chemicals; and
 - 4.8.2.4 To comply with the prohibition in Part 4.7.1.3, a permittee must:
 - 4.8.2.4.1 Clean up spills or contaminated surfaces immediately;

- 4.8.2.4.2 Ensure adequate clean up supplies are available at all times to handle spills, leaks, and disposal of used liquids;
 - 4.8.2.4.3 Use drip pans or absorbents under or around leaky equipment and vehicles; and
 - 4.8.2.4.4 Dispose of liquid wastes or materials used for fueling and maintenance in accordance with Part 4.8.6.
- 4.8.3 **Staging and Material Storage Areas.** If a permittee maintains staging and material storage areas at the site the permittee must comply with the following requirements:
- 4.8.3.1 Designate areas to be used for staging and material storage areas;
 - 4.8.3.2 Locate such activities, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S.; and
 - 4.8.3.3 Minimize the exposure to precipitation and storm water and vandalism for all chemicals, treatment chemicals, liquid products, petroleum products, and other materials that have the potential to pose a threat to human health or the environment.
- 4.8.4 **Washout of Applicators/Containers used for Paint, Concrete, and Other Materials.** If a permittee conducts washing of applicators and/or containers used for paint, concrete, and other materials at the site, the permittee must comply with the following requirements:
- 4.8.4.1 Designate areas to be used for washout;
 - 4.8.4.2 Locate such activities, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S.;
 - 4.8.4.3 Direct all concrete, paint, and other material washout activities into a lined, water-tight container or pit to ensure there is no discharge into the underlying soil and onto the surrounding areas;
 - 4.8.4.4 Dispose of liquid wastes in accordance with Part 4.8.6; and
 - 4.8.4.5 For concrete washout areas, remove hardened concrete waste when it has reached one-half ($\frac{1}{2}$) the height of the container or pit and dispose of in accordance with Part 4.8.6.
- 4.8.5 **Fertilizer or Pesticide Use.** If a permittee uses fertilizers or pesticides the permittee must comply with the following requirements:
- 4.8.5.1 Application of fertilizers and pesticides in a manner and at application rates that will minimize the loss of chemical to storm water runoff. Manufacturers' label requirements for application rates and disposal requirements must be followed; and
 - 4.8.5.2 Use pesticides in compliance with federal, state, and local requirements.
- 4.8.6 **Storage, Handling, and Disposal of Construction Waste.** If a permittee stores, handles and/or disposes of construction waste at the site, the permittee must comply with the following requirements:
- 4.8.6.1 Locate areas dedicated for management of construction waste, to the extent practicable, away from storm water conveyance channels, storm water inlets, and waters of the U.S.;
 - 4.8.6.2 Dispose of all collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other domestic wastes according to federal, state and local requirements;
 - 4.8.6.3 Store hazardous or toxic waste in appropriate sealed containers and dispose of these wastes in accordance with manufacture's recommended method of disposal or federal, state or local requirements; and

- 4.8.6.4 Provide containment of sanitation facilities (e.g., use of portable toilets) to prevent discharges of pollutants to the storm water drainage system or receiving water. Clean or replace sanitation facilities and inspect them regularly for leaks and spills.

4.9 Spill Notification

- 4.9.1 A permittee is prohibited from discharging hazardous substance or oil from a spill or other release. Upon discovery of a spill of a reportable quantity, a permittee must report the spill in accordance with Part 9.3.

4.10 Projects near a Public Water System (PWS)

- 4.10.1 Where the project intersects a PWS drinking water protection area (DWPA) (see Part 5.3.5.16), notify the PWS contact. PWS contact information can be obtained using the online application, Drinking Water Watch, <https://dec.alaska.gov/DWW/> by entering the appropriate 6-digit PWS ID (e.g., 225025).
- 4.10.2 Within the identified DWPA, restrict project activities that could significantly change the natural surface water drainage or groundwater gradient.
- 4.10.3 Immediately notify the nearby PWS of any identified potential contamination, such as spills or excess erosion.

4.11 Permanent Storm Water Management Control

A permittee must comply with applicable APDES MS4 permit requirements, local requirements, and the applicable requirements under 18 AAC 72.600 (i.e., Nondomestic Wastewater System Plan Review) regarding the design and installation of permanent storm water management controls. Structural measures should be placed on upland soils to the degree practicable and achievable.

- 4.11.1 A permittee who constructs, alters, installs, modifies, or operates any part of a permanent storm water management control at a site and is located outside a municipality operating under an APDES MS4 permit must submit a copy of the engineering plans in accordance with 18 AAC 72.600 to DEC for review to the Permitting Program via EDMS. at least 30 calendar days before the commencement of construction.
- 4.11.2 A permittee who constructs, alters, installs, modifies, or operates any part of a permanent storm water management control measure at a site and is located inside a municipality operating under an APDES MS4 permit must submit a copy of the required submittal information to the respective MS4 operator for review. Permittees must contact the MS4 Operator for submittal deadlines. See <https://dec.alaska.gov/water/wastewater/stormwater/permits-approvals/construction/swppp-submittal-rqmts/> for a list of MS4 Operators and their contact information

4.12 Winter Considerations

- 4.12.1 **Winter Shutdown.** A permittee who plans to cease construction during the winter and resume construction the next summer must plan for winter shutdown and prepare their site to manage storm water flows until construction activities resume. The permittee must identify the anticipated dates of fall freeze-up and spring thaw (see Appendix C) for their site and use these dates to plan for winter shutdown. **Frozen ground by itself is not considered an acceptable control measure for stabilization.**
- 4.12.1.1 A permittee must ensure the following measures are complete prior to fall freeze-up until construction activities resume:

- 4.12.1.1.1 Temporary or final stabilization for conveyance channels;
 - 4.12.1.1.2 Temporary or final stabilization for disturbed slopes, disturbed soils, and soil stockpiles; and
 - 4.12.1.1.3 Proper installation of erosion and sediment control measures in anticipation of spring thaw.
- 4.12.1.2 Where temporary stabilization is precluded by snow cover or frozen ground conditions prior to the anticipated date of Fall Freeze-up, stabilization measures must be initiated as soon as practicable following the actual spring thaw.
- 4.12.2 **Winter Construction.** A permittee conducting winter construction activities that may extend beyond spring thaw must install appropriate control measures to minimize erosion and sediment runoff during spring thaw and summer rainfall⁴.
- Permit authorization is not required for the construction of ice roads or the placement of sand or gravel on frozen tundra with no excavation or potential to pollute waters of the U.S..

4.13 Maintenance of Control Measures

- 4.13.1 A permittee must maintain all control measures, good housekeeping measures, and other protective measures in effective operating condition. If site inspections required by Part 6.0 identify control measures, good housekeeping measures, or other protective measures that are not operating effectively, the permittee must implement corrective actions in accordance with Part 8.0.
- 4.13.2 If existing control measures need to be modified or if additional control measures are necessary for any reason, the permittee must complete any corrective action in accordance with the deadlines stated in Part 8.2.
- 4.13.3 A permittee must remove sediment from silt fences, check dams, berms or other controls before the accumulated sediment reaches:
- 4.13.3.1 One-third ($\frac{1}{3}$) the distance up the above-ground height (or it reaches a lower height based on manufacturer's specifications) for silt fences;
 - 4.13.3.2 One-half ($\frac{1}{2}$) the distance up the above-ground height (or it reaches a lower height based on manufacturer's specifications or BMP guidance manuals) for storm water inlets, check dams, berms, or other control measure; or
 - 4.13.3.3 For sediment traps or sediment ponds, the permittee must remove accumulated sediment when the design capacity has been reduced by fifty (50%) percent.

4.14 Storm Water Lead and Training of Employees

A permittee must identify one "qualified person" (as defined in Appendix C) as the storm water lead/SWPPP Manager to ensure the control measures described in the SWPPP are implemented as written, or modified as necessary, during construction. The qualifications and training for the storm water lead/SWPPP Manager, SWPPP preparer, storm water inspector, and monitoring person for a site varies with the size of the project. A permittee must ensure that employees and subcontractors receive adequate training to ensure proper installation, maintenance, and removal of the control measures described in the SWPPP for the project.

⁴ The Alaska Storm Water Guide, Chapters 3 and 4, provide guidance on the selection, design, and installation of winter construction practices and controls.

4.15 Applicable Federal, State, Tribal, or Local Requirements

A permittee must ensure that the storm water control measures implemented at the site are consistent with all applicable federal, state, tribal, or local requirements for soil and erosion control and storm water management.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 Storm Water Pollution Prevention Plan (SWPPP)

- 5.1.1 A permittee must prepare a SWPPP for each site before submitting their NOI for permit coverage and document the control measures implemented at the site. The SWPPP is intended to document the selection, design, installation, and implementation of control measures that are being used to comply with the requirements set forth in Parts 3.0 and 4.0.
- 5.1.2 The SWPPP must, at a minimum:
 - 5.1.2.1 Include the information described in Part 5.3.
 - 5.1.2.2 Be implemented as written, including any modifications for changes in design or field conditions, until the submittal of the NOT.
 - 5.1.2.3 Be developed by a “qualified person” (as defined in Appendix C).
 - 5.1.2.4 Be signed, dated, and certified in accordance with Appendix A, Part 1.12.

5.2 Deadlines for SWPPP Preparation

- 5.2.1 An operator must prepare a SWPPP before submitting the NOI for authorization under this permit.
- 5.2.2 A permittee with an ongoing project with authorization under a previous construction general permit and a SWPPP that was developed based on that permit must review and update the SWPPP prior to submitting the NOI for authorization under this permit (see Part 2.4.2.1.2).
- 5.2.3 A permittee must provide a copy of the applicable portions of the SWPPP, or site-specific training to each subcontractor who engages in soil disturbing activities prior to the subcontractor conducting any soil disturbing activity. Revisions to the SWPPP that affect the subcontractor’s soil disturbing activities must be provided to the subcontractor in a timely manner.

5.3 SWPPP Contents

At a minimum, the SWPPP must include the following:

- 5.3.1 **Permittee(s)**

Identify the permittee(s) for the site and any subcontractors that may work on the site, including the areas where the subcontractors may be or are expected to conduct activities covered by this permit.
- 5.3.2 **Storm Water Contact(s)**

Identify the following qualified person(s) responsible for the following (Note: A small project may have all these responsibilities carried out by one person):

 - 5.3.2.1 Storm Water Lead;
 - 5.3.2.2 Updating the SWPPP according to Part 5.9;
 - 5.3.2.3 Conducting inspections according to Part 6.0;
 - 5.3.2.4 Conducting monitoring (if applicable) according to Part 7.0; and

- 5.3.2.5 Operating an Active Treatment System (if applicable) according to 4.6.7.
- 5.3.3 **Project Site-Specific Conditions.** Briefly describe the existing site-specific conditions, including:
- 5.3.3.1 The mean annual precipitation based on the nearest weather station;
 - 5.3.3.2 Site conditions such as soils, topography, drainage patterns, approximate growing season, and vegetation; and
 - 5.3.3.3 Receiving waters such as impaired waters or waters listed in the Alaska Department of Fish & Game (ADF&G) Anadromous Waters Catalog.
- 5.3.4 **Nature of Construction Activity.** Briefly describe the nature of the construction activity, including:
- 5.3.4.1 The function of the project (e.g., low density residential, shopping mall, subdivision, airport, highway, etc.);
 - 5.3.4.2 The intended sequence and timing of activities that disturb soils at the site;
 - 5.3.4.3 Size of the property including support activities described in Part 1.4.2.3 (in acres) and the total area expected to be disturbed by excavation, grading, or other construction activities (in acres);
 - 5.3.4.4 A general location map (e.g., USGS quadrangle map, a portion of a city or county map, or other map) with enough detail to identify the location of the construction site and waters of the U.S. within one mile of the site; and
 - 5.3.4.5 Identification of all potential sources of pollutants that may reasonably be expected to affect the quality of the storm water discharges from the site.
- 5.3.5 **Site Map(s).** The SWPPP must contain a legible site map (or set of maps for large projects) showing the entire site and identifying the following site-specific information:
- 5.3.5.1 North Arrow and bar scale;
 - 5.3.5.2 Legend explaining symbols used;
 - 5.3.5.3 Boundaries of the property where construction activities will occur;
 - 5.3.5.4 Locations where soil disturbing activities will occur, noting any phasing of construction activities;
 - 5.3.5.5 Location of areas that will not be disturbed and natural features to be preserved;
 - 5.3.5.6 Location of all storm water conveyances including ditches, pipes, and swales;
 - 5.3.5.7 Locations of storm water inlets and outfalls, with a unique identification code for each outfall;
 - 5.3.5.8 Municipal separate storm sewer systems, if present;
 - 5.3.5.9 Direction(s) of storm water flow and approximate slopes anticipated after grading activities;
 - 5.3.5.10 Locations where control measures will be or have been installed;
 - 5.3.5.11 Locations where exposed soils will be stabilized or have been stabilized;
 - 5.3.5.12 Locations where post-construction storm water controls will be or have been installed;
 - 5.3.5.13 Locations of support activities described in Part 1.4.2.3;
 - 5.3.5.14 Locations where authorized non-storm water will be used, including the types that will be used on-site;

- 5.3.5.15 Locations of all waters of the U.S. (including significant wetland areas 10,000 square feet or greater) on the site and those located within 2,500 feet of the site boundary that may be affected by storm water discharges from the site;
 - 5.3.5.16 Location of existing public water system (PWS) drinking water protection areas (DWPA) for PWS sources (e.g. springs, wells, or surface water intakes) that intersect the boundary of the proposed project/permit area. The DWPAs can be found using the interactive web map application, “*Drinking Water Source Protection Areas Map*”, located at <https://dec.alaska.gov/eh/dw/dwp/protection-areas-map/>.
 - 5.3.5.17 Locations where storm water and/or authorized non-storm water discharges to a surface waterbody (including wetlands) or an MS4;
 - 5.3.5.18 **Sampling Point(s)** (if applicable): A permittee subject to the requirements of Parts 3.2 must include the location(s) of the storm water discharge sampling point(s). For a linear project, indicate which sampling points are considered substantially identical, in accordance with Part 7.3.5; and
 - 5.3.5.19 Areas where final stabilization has been accomplished and no further construction-phase permit requirements apply.
- 5.3.6 **Control Measures.** The SWPPP must describe and document the location of all control measures that will be installed and maintained to meet the requirements in Parts 3.0 and 4.0. For each major activity identified in the project description, the SWPPP must clearly document the following.
- 5.3.6.1 The type of control measure to be installed and maintained and the location on the site for installation.
 - 5.3.6.2 The general sequence during the construction process in which the control measures will be installed and made operational, as well as the manufacturer’s or BMP manual specifications for installation.
 - 5.3.6.3 The general sequence of the stabilization practices that will be used to achieve temporary or final stabilization on exposed portions of the site as required in Part 4.5.
 - 5.3.6.4 The type of treatment chemicals used on the site and a description of the general location of their use at the site, in accordance with in Part 4.6.
 - 5.3.6.5 The information submitted to DEC for an active treatment system, in accordance with Part 4.6.7.
 - 5.3.6.6 The good housekeeping measures that will be used at the site, if any, in accordance with Part 4.8.
 - 5.3.6.7 A description of spill prevention and response measures that will be used at the site, in accordance with Part 4.9. The permittee may reference the existence of other plans for Spill Prevention and Control and Countermeasure (SPCC) for the project, provided that a copy of the other plan(s) is kept with the SWPPP.
 - 5.3.6.8 A description of all permanent storm water management controls that will be installed at the site, including their location, in accordance with Part 4.11.
 - 5.3.6.9 For projects that expect a winter shutdown, the SWPPP must provide a description of the following:
 - 5.3.6.9.1 Anticipated dates of fall freeze-up and spring thaw (as defined in Appendix C); and
 - 5.3.6.9.2 The methods the permittee will use to address winter considerations in accordance with Part 4.12.

- 5.3.6.10 A description of maintenance procedures for the control measures in accordance with Part 4.13.
- 5.3.6.11 A description of the training relevant to the construction activity and control measures used at the site in accordance with Part 4.14.
- 5.3.7 **Construction and Waste Materials.** The SWPPP must describe in general terms the type of construction and waste materials expected to be stored at the site with updates as appropriate and describe the measures for the handling and disposal of all wastes generated at the site, including clearing and demolition debris or other waste soils removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste.
- 5.3.8 **Locations of Other Industrial Storm Water Discharges.** The SWPPP must describe and identify the location of any storm water discharge associated with support activities described in Part 1.4.2.3. This includes storm water discharges from dedicated asphalt plants and dedicated concrete plants that are covered by this permit.
- 5.3.9 **Non-Storm Water Discharges.** The SWPPP must identify all authorized sources of non-storm water discharges listed in Part 1.4.3 of this permit, except for flows from fire-fighting activities that are combined with storm water discharges associated with construction activity at the site. The SWPPP must also describe the good housekeeping measures used to control or reduce non-storm water discharges.

5.4 Inspections

- 5.4.1 The SWPPP must document the procedures for performing site inspections specified by Part 6.0 of this permit, and where necessary, procedures for taking corrective actions in accordance with Part 8.0. At a minimum, the SWPPP must document the following:
 - 5.4.1.1 Person(s) or positions of person(s) responsible for conducting site inspections;
 - 5.4.1.2 Schedules to be followed for conducting inspections;
 - 5.4.1.3 Any inspection checklist or form that will be used to collect and summarize data and observations; and
 - 5.4.1.4 How conditions found that require corrective action will be addressed.
- 5.4.2 A record of each inspection and of any corrective actions taken in accordance with Part 8.0 must be retained with the SWPPP for at least three years from the date that permit authorization expires or is terminated.

5.5 Monitoring Plan (if applicable)

- 5.5.1 A permittee subject to the monitoring requirements in Part 3.2 must include a copy of the monitoring plan that complies with Part 7.0. At a minimum the SWPPP must document the following:
 - 5.5.1.1 Person(s) or positions of person(s) responsible for conducting monitoring;
 - 5.5.1.2 Schedules to be followed for conducting the monitoring;
 - 5.5.1.3 Any monitoring checklist or form that will be used to record monitoring results; and
 - 5.5.1.4 How conditions found that require corrective action will be addressed.
 - 5.5.1.5 A record of each monitoring event,
 - 5.5.1.6 The annual report submitted to DEC in accordance with Part 9.1, and
 - 5.5.1.7 Any corrective actions taken in accordance with Part 8.0.

- 5.5.2 A record of each monitoring event and of any corrective actions taken in accordance with Part 7.0 and 8.0 must be retained with the SWPPP for at least three years from the date permit authorization expires or is terminated.

5.6 Documentation of Permit Eligibility Related to a Total Maximum Daily Load

The SWPPP must include documentation supporting a determination of permit eligibility with regards to waters that have an EPA-established or approved TMDL. See Part 3.2 for additional information to determine eligibility related to a TMDL. The SWPPP must include the following:

- 5.6.1 Identification of whether the discharge is identified, either specifically or generally, in an EPA-established or approved TMDL and any associated allocations, requirements, and assumptions identified for the discharge;
- 5.6.2 Summaries of consultation with state or federal TMDL authorities on consistency of SWPPP conditions with the approved TMDL; and
- 5.6.3 Measures taken by the permittee to ensure that the discharge of pollutants from the site is consistent with the assumptions and requirements of the EPA-established or approved TMDL, including any specific wasteload or load allocation that has been established that would apply to the discharge.

5.7 Documentation of Permit Eligibility Related to Endangered Species

The SWPPP must include documentation supporting a determination of permit compliance with regard to the Endangered Species Act (ESA), including:

- 5.7.1 Information on whether federally-listed endangered or threatened species or designated critical habitat may be in the project area;
- 5.7.2 Whether such species or critical habitat may be adversely affected by storm water discharges or storm water discharge-related activities from the project;
- 5.7.3 Results of the listed species and critical habitat screening determinations;
- 5.7.4 Any correspondence between the U.S. Fish and Wildlife Service (USFWS), EPA, National Marine Fisheries Service (NMFS), or others and the permittee regarding listed species and critical habitat, including any notification that delays the permittee's authorization to discharge under this permit; and
- 5.7.5 A summary description of measures necessary to protect federally-listed endangered or threatened species or federally-designated critical habitat.

5.8 Post-Authorization Records

- 5.8.1 **Copy of Permit Requirements.** The SWPPP must contain the following documents:

- 5.8.1.1 A copy of this permit;
- 5.8.1.2 A copy of the signed and certified NOI form submitted to DEC; and
- 5.8.1.3 Upon receipt, a copy of the letter from DEC authorizing permit coverage and providing the permit tracking number.

- 5.8.2 **Additional Documentation Requirements.** Summaries of the following information, or copies of the reports, must be maintained with the SWPPP by the permittee following authorization under this permit:

- 5.8.2.1 Grading and Stabilization Activities Log
- 5.8.2.1.1 Date(s) when grading activities occur;

- 5.8.2.1.2 Description of Grading Activity and Location
- 5.8.2.1.3 Date(s) when construction activities temporarily or permanently cease on a portion of the site;
- 5.8.2.1.4 Date(s) when stabilization measures are initiated;
- 5.8.2.1.5 Description of Stabilization Measure.
- 5.8.2.2 Date of beginning and ending period for winter shutdown;
- 5.8.2.3 Copies of inspection reports as required in Part 5.4.2;
- 5.8.2.4 Copies of rainfall monitoring as required in Part 7.3.9.2 and/or 6.7.1.3;
- 5.8.2.5 Copies of monitoring reports or annual reports (if applicable) as required in Part 5.5.2 and 9.1.
- 5.8.2.6 Log of SWPPP modifications;
- 5.8.2.7 Documentation required in Part 4.6 (i.e. Material Safety Data Sheet, manufacturer and/or supplier test results, or employee training information)
- 5.8.2.8 Records of employee training, including the date(s) training was received;
- 5.8.2.9 Documentation of maintenance and repairs of control measures, including date(s) of regular maintenance, date(s) of discovery of areas in need of repair/maintenance, and date(s) that the control measure(s) returned to full function; and
- 5.8.2.10 Description of any corrective action taken at the site, including the Corrective Action Log (Required in Permit Part 8.3) that records event(s) that caused the need for corrective action and dates when problems were discovered and modifications occurred, in accordance with Part 8.0.

5.9 Maintaining an Updated SWPPP

- 5.9.1 **SWPPP Modifications.** A permittee must modify the SWPPP, including site map(s) in response to any of the following:
 - 5.9.1.1 Whenever changes are made to construction plans, control measures, good housekeeping measures, monitoring plan (if applicable), or other activities at the site that are no longer accurately reflected in the SWPPP. This includes changes made in response to corrective actions triggered under Part 8.0 and notifications by the permittee(s);
 - 5.9.1.2 If inspections or investigations by site staff or by local, state, tribal or federal officials determine that SWPPP modifications are necessary for compliance with this permit; or
 - 5.9.1.3 To reflect any revisions to applicable federal, state, tribal, or local law that affect the control measure implemented at the construction site.
- 5.9.2 **SWPPP Amendment Log.** A permittee must keep a log showing dates, name of person authorizing the change, and a brief summary of changes for all SWPPP modifications (e.g., adding new control measures, changes in project design, or storm events that cause for the replacement of control measures).
- 5.9.3 **Deadlines for SWPPP Modifications.** Revisions to the SWPPP must be completed within seven days of the inspection that identified the need for a SWPPP modification or within seven days of substantial modifications to the construction plans or changes in site conditions.

5.10 Additional SWPPP Requirements

5.10.1 Main Entrance Signage

A sign or other notice must be posted conspicuously near the main entrance of the site. If there is insufficient space near the main entrance to post a sign or notice, the notice can be posted in a local public building such as the town hall or public library. For linear projects (e.g. highways or utilities) the sign or other notice must be posted at a location near the main entrance of the construction project (such as where a pipeline project crosses a public road) where the public may read it during non-business hours. At a minimum, the sign or other notice must contain the following information:

- 5.10.1.1 Permit authorization number assigned to the NOI,
- 5.10.1.2 Operator contact name and phone number for obtaining additional construction site information, and
- 5.10.1.3 The location of the SWPPP or the name and telephone number of the contact person for scheduling SWPPP viewing times. If the location of the SWPPP or the name and telephone number of the contact person for scheduling SWPPP viewing times has changed (i.e., is different than that submitted to DEC in the NOI), the current location of the SWPPP or name and telephone number of a contact person for scheduling viewing times.

5.10.2 Retention and Availability of SWPPP

- 5.10.2.1 A current copy of the SWPPP (including a copy of the permit), NOI, and acknowledgement letter from DEC must be retained at the site or other location easily accessible during normal business hours.
- 5.10.2.2 If the permittee has day-to-day operational control over SWPPP implementation, the permittee must have a copy of the SWPPP available at a central location at the site for the use of all those identified as having responsibilities under the SWPPP whenever they are on the construction site. If an on-site location is unavailable to store the SWPPP when no personnel are present, notice of the plan's location must be posted near the main entrance at the site.
- 5.10.2.3 Digital copies of documents will satisfy the requirements of this part as long as they meet or exceed the functionality of a physical copy.
- 5.10.2.4 A permittee may move the location where the SWPPP is available during the winter shut down for a site that is expected to have a winter shutdown provided that the winter SWPPP location conforms to the requirements of Part 5.10.1.
- 5.10.2.5 A permittee must ensure that each subcontractor who engages in soil disturbing activities is provided access to a copy of the SWPPP and is familiar with relevant portion(s) thereof that relate to the subcontractor's activities at the project.
- 5.10.2.6 The SWPPP must be made available upon request by: DEC; EPA; a state, tribal or local agency approving sediment and erosion plans, grading plans, or storm water management plans; local government officials; the operator of a MS4 receiving discharges from the site; and representatives of the ADF&G, USFWS or the NMFS. An electronic or hard copy of the SWPPP must be made available in its entirety to DEC staff for review and copying upon request.
- 5.10.2.7 DEC may provide access to portions of the SWPPP to a member of the public upon request. Confidential Business Information (CBI) may be withheld from the public per Appendix A, Part 1.13, but may not be withheld from those staff cleared for CBI review within DEC, EPA, USFWS, or NMFS.

5.10.3 Signature and Certification

The SWPPP must be dated, signed, and certified in accordance with the requirements of Appendix A, Part 1.12.

5.11 Requirements for Different Types of Operators

The permittee may meet one or both of the operational control components in the definition of operator found in Appendix C. Part 5.11.3 applies to all permittees having control over only a portion of a construction site.

- 5.11.1 If the permittee has operational control over construction plans and specifications, the permittee must ensure that:
 - 5.11.1.1 The project specifications meet the minimum requirements of this Part and all other applicable permit conditions;
 - 5.11.1.2 The SWPPP indicates the areas of the project where the permittee has operational control over project specifications, including the ability to make modifications in specifications;
 - 5.11.1.3 All other permittees implementing portions of the SWPPP (or their own SWPPP) who may be impacted by a change to the construction plan are notified of such changes in a timely manner; and
 - 5.11.1.4 The SWPPP indicates the name of the party(ies) with day-to-day operational control of those activities necessary to ensure compliance with the SWPPP or other permit conditions.
- 5.11.2 If the permittee has operational control over day-to-day activities, the permittee must ensure that:
 - 5.11.2.1 The SWPPP meets the minimum requirements of this Part and identifies the parties responsible for implementation of control measures identified in the plan;
 - 5.11.2.2 The SWPPP indicates areas of the project where the permittee has operational control over day-to-day activities; and
 - 5.11.2.3 The SWPPP indicates the name of the parties with operational control over project specifications (including the ability to make modifications in specifications).
- 5.11.3 If the permittee has operational control over only a portion of a larger common plan of development (e.g., one of four homebuilders in a subdivision), the permittee must ensure that:
 - 5.11.3.1 They comply with all applicable control measures, terms, and conditions of this permit as it relates to the activities on the permittee's portion of the construction site, including, but not limited to: monitoring (if applicable), inspections, and protection of endangered species, and critical habitat.
 - 5.11.3.2 They implement a portion of a comprehensive SWPPP or develop and implement a separate SWPPP that covers only their portion of the project in compliance with Part 5.1.
 - 5.11.3.3 Activities on their portion of the site do not render another party's control measures ineffective.

6.0 INSPECTIONS

6.1 Inspection Frequency

- 6.1.1 A permittee must conduct inspections at one of the following schedules, beginning immediately after initial soil disturbance:
 - 6.1.1.1 Once every seven calendar days; or
 - 6.1.1.2 Once every 14 calendar days and within 24 hours of the end of a storm event that resulted in a discharge from the site; or
 - 6.1.1.3 For areas of the state where the mean annual precipitation is forty (40) inches or greater, or relatively continuous precipitation or sequential storm events, inspect at least once every seven (7) calendar days.
- 6.1.2 A permittee must specify in the SWPPP which schedule will be followed.

6.2 Case-by-Case Reductions in Inspection Frequency

A permittee may reduce inspection frequency, and note doing so in the SWPPP Amendment Log per part 5.9.2, in the following situations:

- 6.2.1 If the entire site is stabilized in accordance with Part 4.5, a permittee may reduce the frequency of inspections to at least once every calendar month (minimum of 7 days separation between inspections). At such sites that are actively staffed an inspection must be performed within two business days of the end of a storm event that resulted in a discharge from the site;
- 6.2.2 If portions of the site have achieved final stabilization in accordance with Part 4.5 but construction activity remains on other portions of the site, a permittee may suspend inspections for those portions that have achieved final stabilization; however, the permittee must conduct subsequent inspections within two business days of the end of a storm event that results in a discharge from that portion of the site previously considered finally stabilized;
- 6.2.3 If the project is undergoing winter shutdown (as defined in Appendix C), implemented control measures with Part 4.12 Winter Considerations, and is documented in accordance with Part 5.3.6.9, a permittee may stop inspections 14 calendar days after the anticipated fall freeze-up and must resume inspections in accordance with the SWPPP at least 21 calendar days prior to the anticipated spring thaw;
 - 6.2.3.1 A project may have an area of the site in winter shutdown and an area in regular status, but the SWPPP Amendment Log must clearly describe the boundaries and each area must meet all requirements for its status.
- 6.2.4 If the project is undergoing winter construction the inspection frequency can be reduced to once per month if runoff is unlikely due to continuous frozen conditions that are likely to continue at the site for at least three (3) months based on historic seasonal averages. If unexpected weather conditions (such as above freezing temperatures or rain events) make discharges likely, the permittee must immediately resume a regular inspection frequency; or
- 6.2.5 If the entire site has achieved final stabilization (as defined in Appendix C) and a NOT has been submitted, no further inspection requirements apply to the site.

6.3 Qualified Person

An inspection must be conducted by a qualified person (as defined in the Appendix C) provided by a permittee.

6.4 Site Inspection

6.4.1 **Location of Inspections.** During a site inspection, a permittee must at a minimum inspect the following areas of the site:

- 6.4.1.1 Areas of the site disturbed by construction activity (e.g., areas cleared, graded, or excavated);
- 6.4.1.2 Areas used for storage of materials that are exposed to precipitation;
- 6.4.1.3 Areas where control measures are installed and maintained at the site;
- 6.4.1.4 Areas where sediment and other pollutants have accumulated or been deposited and may have the potential for or are entering the storm water conveyance system;
- 6.4.1.5 Locations where vehicles enter or exit the site;
- 6.4.1.6 Areas where storm water typically flows, including the storm water conveyance system;
- 6.4.1.7 Points of discharge from the site. Where such discharge locations are inaccessible, the nearest downstream location must be inspected to the extent that such inspections are practicable; and
- 6.4.1.8 Portions of the site where temporary or final stabilization measures have been initiated.

6.4.2 **Scope of Inspection.** At a minimum, the scope of the site inspection must include the following:

- 6.4.2.1 Check whether all control measures are installed and operating as intended and determine if any control measures need to be replaced, repaired, or maintained;
- 6.4.2.2 Check for the presence of accumulated sediment near the project area boundary that has a potential for being washed outside of the project boundary on locations such as roadways or parking lots, storm water conveyance systems, storm water inlets, and discharge points;
- 6.4.2.3 Check for the evidence of, or the potential for spills, leaks, or other accumulations of pollutants on the site entering the storm water conveyance system or waters of the U.S.;
- 6.4.2.4 Describe visible areas where erosion has occurred near the project area boundary that has a potential for being washed outside of the project boundary;
- 6.4.2.5 Identify any locations where new or modified control measures are necessary to meet the requirements in Part 4.0;
- 6.4.2.6 Identify all points where there is a discharge from the site and describe the conditions that are contributing to that discharge (e.g., recent storm event with failure of a control measure); and
- 6.4.2.7 Any incidents of noncompliance observed and corrective actions taken pursuant to Part 8.0.

6.5 Linear Project Inspections

- 6.5.1 Representative inspections may be performed at linear projects if the areas described in Part 6.4 are inaccessible, unsafe for personnel, would compromise stabilized areas, or would cause additional disturbance of soils.
- 6.5.2 Representative inspections must be performed by a qualified person (as defined in Appendix C).
- 6.5.3 To conduct representative inspections, a qualified person must inspect control measures along the site 0.25 mile above and below each access point where a roadway, undisturbed right-of-way, or other similar feature intersects the site and allows access to the areas described in Part 6.4. The conditions of the control measures along each inspected 0.25 mile segment may be considered as representative of the condition of control measures along that reach extending from the end of the 0.25 mile segment to either the end of the next 0.25 mile inspected segment, or to the end of the project, whichever occurs first.
- 6.5.4 If treatment chemicals are used then inspections must be conducted of all areas using the treatment chemicals.

6.6 Inspections by DEC or Applicable Government Authority

- 6.6.1 A permittee must allow an authorized representative of DEC, EPA, or the MS4 operator at any reasonable time to:
 - 6.6.1.1 Enter onto the site where a regulated construction activity is conducted or where records are kept under the conditions of this permit;
 - 6.6.1.2 Access and copy any records that must be kept under the conditions of this permit;
 - 6.6.1.3 Inspect any portion of the site, including any off-site staging areas or material storage areas and the erosion and/or sediment control measures; and
 - 6.6.1.4 Sample or monitor for the purpose of ensuring compliance.

6.7 Inspection Report

For each inspection required by this Part, the permittee must complete an inspection report.

- 6.7.1 At a minimum, the inspection report must include:
 - 6.7.1.1 The inspection date;
 - 6.7.1.2 Names, titles, and qualifications of personnel conducting the inspection;
 - 6.7.1.3 Weather information for the period since the last inspection (or since commencement of construction activity if the first inspection) including a general estimate of the beginning day of each storm event, duration of each storm event, and whether any discharges occurred (information from the nearest National Weather Service Station within 20 miles may be adequate provided it is representative of the actual site location if the permittee does not maintain a rain gauge on site);
 - 6.7.1.4 Weather information and a description of any discharges occurring at the time of the inspection;
 - 6.7.1.5 Location(s) of discharges of sediment or other pollutants from the site;
 - 6.7.1.6 Location(s) of control measures that need to be maintained;
 - 6.7.1.7 Location(s) of control measures that failed to operate as designed or proved inadequate for a particular location;

- 6.7.1.8 Location(s) where additional control measures are needed that did not exist at the time of inspection; and
- 6.7.1.9 Corrective action required, if any, including complete-by dates.
- 6.7.2 The inspection report must be signed in accordance with Appendix A, Part 1.12.

7.0 MONITORING

7.1 General Requirements

- 7.1.1 A permittee whose project is subject to Part 3.2 Discharge to Impaired Water Body is required to develop, implement, and modify a written site-specific plan for analytical monitoring that includes all the requirements of this Part and follows the applicable DEC Quality Assurance Guidance for a Water Quality Monitoring Plan⁵.
- 7.1.2 The DEC may notify the permittee of additional discharge monitoring requirements. Any such notice will briefly state the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

7.2 Qualified Person

Monitoring must be conducted by a qualified person (as defined in Appendix C) provided by a permittee.

7.3 Discharge Monitoring Requirements

7.3.1 Sampling Parameter

A permittee must sample for turbidity if the construction activity meets the requirements of Part 7.1.

7.3.2 Sampling Frequency

- 7.3.2.1 Sampling must be conducted during or immediately following any storm event (as defined in Appendix C) or snowmelt event that results in a discharge from the site. For areas of the state described in Part 6.1.1.3, sample once per week following any storm event that results in a discharge from the site.
- 7.3.2.2 A permittee must collect at least two representative samples of the discharge. In the monitoring plan the permittee must characterize the number and frequency of samples to be measured/collected per discharge so as to represent the water quality conditions in the discharge (at minimum two samples per day per storm event).
- 7.3.2.3 A permittee is only required to collect samples during normal business hours and when conditions are safe for sampling personnel. When unsafe conditions (i.e., those that are dangerous or create inaccessibility for personnel) prevent the collection of samples, the permittee must conduct sampling of the discharge from the site as soon as the conditions are safe for sampling.
- 7.3.2.4 If a permittee is unable to collect a sample of the discharge due to unsafe conditions, the reason must be documented and attached to all required reports and records of the sampling activity.

⁵ Detailed requirements can be accessed at the following web page: <https://dec.alaska.gov/water/water-quality/quality-assurance/>

7.3.3 Sampling Locations

- 7.3.3.1 The permittee is required to conduct sampling at all discharge points where storm water or authorized non-storm water is discharged to an impaired water body or as per Part 7.1.2.
- 7.3.3.2 Linear Projects are also subject to the visual monitoring requirements in Part 7.4.
- 7.3.3.3 All sampling locations must be identified on the SWPPP site map and be clearly marked in the field with a flag, tape, stake, or other visible marker.

7.3.4 Discharging to an Impaired Water body. If the project is subject to Part 3.2, the permittee is required to conduct sampling at the following locations:

- 7.3.4.1 At a representative location upstream from the point of discharge into receiving water body or outside the area of influence of the discharge; and
- 7.3.4.2 At a representative location downstream from the point of discharge into the receiving water body, inside the area of influence of the discharge. Alternatively, the sample may be taken at the point it leaves the construction site, rather than when it is in the receiving water body.

7.3.5 Representative Discharge Point for a Linear Project. If a linear project has two or more outfalls that discharge substantially identical effluents, based on similarities of the soil disturbance and construction activity occurring within the drainage areas of the discharge point, the permittee may collect a representative sample of the storm water discharge at one of the discharge points and report that the quantitative data also apply to the substantially identical discharge point(s). For this to be permissible, the permittee must describe the following in the monitoring plan:

- 7.3.5.1 Locations of the discharge points;
- 7.3.5.2 Why the discharge points are expected to discharge substantially identical pollutants; and
- 7.3.5.3 Estimates of the size of the drainage area (in square feet) for each of the discharge points.

7.3.6 Commingled Discharges. If, prior to discharging, storm water flow commingles with sources of storm water that originate outside of the construction site or on property that is not owned or operated by the permittee, the following applies:

- 7.3.6.1 A permittee is required to collect samples of discharges from the construction site that consist in part of storm water that originates outside of the construction site and discharges from the site; or
- 7.3.6.2 If storm water originates outside of the construction site then discharges from the permittee's property but does not come into contact with the site construction activities, the permittee is not required to sample this discharge.

7.3.7 Sample Type. All sampling performed by the permittee must be representative of the flow and characteristics of the discharge.

7.3.8 Sampling and Analysis Methods

- 7.3.8.1 Turbidity analysis must be performed with an EPA-approved field-calibrated nephelometer or turbidity meter (turbidimeter) for water quality measurements.
- 7.3.8.2 Samples required by this permit should be analyzed immediately.
- 7.3.8.3 Automatic sampling may be used; however, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is used and analyzed consistent with Part 7.3.8.2.

- 7.3.8.4 If the permittee cannot conduct field turbidity measurements, then all laboratory analysis must be conducted according to test procedures specified in 40 CFR §136, unless other test procedures have been specified in this permit. Samples must be preserved as required by the appropriate EPA-approved method of analysis and analyzed within specified holding times.

7.3.9 Rainfall Monitoring

- 7.3.9.1 A permittee must use a rain gauge on site or utilize the nearest National Weather Service (NWS) precipitation gauge station to determine the amount of rainfall during a storm event if the NWS gauge used is located within 20 miles of the site.
- 7.3.9.2 A permittee must maintain daily records of the rainfall amounts and dates of rainfall events as part of the SWPPP, in accordance with Part 9.4.

7.3.10 Recording Monitoring Data. A permittee must retain records of all sampling information and reports as part of the SWPPP, in accordance with Part 9.4. For each sample collected, the permittee must record the following:

- 7.3.10.1 The date, monitoring location, method, and time of sampling;
- 7.3.10.2 The name and title of the individual(s) who performed the sampling and analyses;
- 7.3.10.3 The date(s) and time(s) analyses were performed;
- 7.3.10.4 The analytical techniques or methods used; and
- 7.3.10.5 The results of such analyses in nephelometric turbidity units (NTU) and all calibration and quality control information used to validate the measurement(s).

7.3.11 Reporting Monitoring Results

- 7.3.11.1 All monitoring data collected pursuant to Part 7.0 must be submitted to DEC, in accordance with Part 9.1, Annual Reports. (Note: The monitoring data collected under this Part does not need to conform to Appendix A Part 3.2.)
- 7.3.11.2 For each discharge point, a permittee must submit the following information:
- 7.3.11.2.1 Name of discharge point. If the discharge point is on a linear project and is representative of one or more substantially similar discharge points, include the names of the other discharge points;
- 7.3.11.2.2 Date sample(s) collected;
- 7.3.11.2.3 Result of each individual sample collected in NTUs, or, if no discharge occurred during the sampling period for that discharge point indicate no discharge;
- 7.3.11.2.4 The arithmetic mean of all samples collected for each day; and
- 7.3.11.2.5 If the sample result(s) are from a representative discharge point, indicate representative sample.
- 7.3.11.3 A permittee is required to report all sampling results, including those that reflect samples collected beyond the minimum frequency required in Part 7.3.2.

7.4 Visual Monitoring for a Linear Project

A permittee for a linear project subject to the monitoring requirements in Part 3.2 or Part 7.1 are also required to visually monitor drainage areas and discharge locations in portions of the site where temporary or final stabilization has been initiated and document monitoring activities with the procedures described in this Part.

- 7.4.1 **Visual Monitoring Frequency.** Visual monitoring must be conducted at least once every seven calendar days, and the permittee may choose to do it more frequently.

- 7.4.2 **Visual Monitoring Locations.** The inspector must visually observe discharge points in portions of the site where temporary or final stabilization has been initiated and each drainage area associated with the linear project for the presence of current (and indications of prior) discharges and their sources.
- 7.4.3 **Visual Monitoring Requirements.** During conditions at the project in which a discharge is occurring, the permittee must:
- 7.4.3.1 Observe and document the visual quality and characteristics of the discharge, including color, odor, floating, settled, or suspended solids, foam, oil sheen, and other obvious indicators of storm water pollutants; and
 - 7.4.3.2 Document whether control measures are operating effectively or are in need of maintenance.
- 7.4.4 **Recording Visual Monitoring Data.** A permittee must document the results of the visual monitoring and maintain this documentation with the SWPPP as required in Part 9.4. A permittee is not required to submit the visual monitoring findings to DEC, unless specifically requested to do so. At a minimum, the documentation of the visual monitoring must include:
- 7.4.4.1 The visual monitoring date and time;
 - 7.4.4.2 Name and title of personnel conducting the visual monitoring;
 - 7.4.4.3 Observations and documentation of the visual monitoring; and
 - 7.4.4.4 Any conditions requiring corrective action and a description of the corrective action.

8.0 CORRECTIVE ACTIONS

A permittee must take corrective actions as identified through the inspections conducted under Part 6.0 or as indicated by monitoring conducted under Part 7.0. This includes addressing the performance of control measures, including modifications to the selection, design, installation, and/or implementation of those control measures or to address permit violations.

8.1 Corrective Action Conditions

- 8.1.1 A permittee must review and revise the selection, design, installation, and implementation of their control measures whenever any of the following conditions are identified, discovered, or made aware of at the site:
- 8.1.1.1 An unauthorized release or prohibited discharge (e.g., spill, leak, or discharge of non-storm water not authorized by this or another APDES permit);
 - 8.1.1.2 Control measures are not designed, installed, and/or maintained as required in Part 4.0;
 - 8.1.1.3 The permittee becomes aware, or DEC determines that the control measures are not operating as intended or are not effective enough to meet the requirements of Part 3.1.2;
 - 8.1.1.4 An inspection by DEC or EPA official determines that modification to the control measures are necessary to meet the requirements of this permit;
 - 8.1.1.5 The accumulation or tracking of sediment in or near any storm water conveyance channels, storm water inlet, on roadways or parking lots outside the project area and adjacent to the site, in the immediate vicinity of control measures, at discharge points or entry points into the storm sewer system, or in other areas of the site; or

- 8.1.1.6 Pollutants (other than sediment such as trash or litter) have accumulated in or near any storm water conveyance channels, on roadways or parking lots within and adjacent to the site, in the immediate vicinity of control measures, at discharge points or entry points into the storm sewer system, or in other areas of the site.

8.2 Deadlines for Corrective Actions

- 8.2.1 A permittee must review the design, installation, and maintenance of control measures upon detecting any condition in Part 8.1.1 and document any corrective action(s) to be taken to eliminate or further investigate the deficiency and comply with the following:
 - 8.2.1.1 For conditions that are easily remedied (i.e., removal of tracked sediment, maintenance of control measures, or spill clean-up), the permittee must initiate appropriate steps to correct the problem within 24 hours from the time of discovery and correct the problem as soon as practicable; or
 - 8.2.1.2 If installation of a new control measure is needed or an existing control measure requires redesign and reconstruction or replacement, the permittee must install the new or modified measure and make it operational within seven calendar days from the time of discovery of the need for the corrective action, unless infeasible;
 - 8.2.1.3 If a discharge occurs during a local 2-year, 24-hour storm event, a corrective action as described in Part 8.1.1 must be initiated within 24 hours from the time of discovery of a discharge from the storm event;
 - 8.2.1.4 Monitoring, if required, must continue while corrective actions are being carried out.
- 8.2.2 Where a permittee takes corrective actions that could affect a subcontractor, the permittee must provide notification to the subcontractor within three calendar days of taking the corrective action.
- 8.2.3 Subcontractors must notify the permittee within 24 hours of becoming aware of any of conditions listed in Part 8.1.1.

8.3 Corrective Action Log

- 8.3.1 A permittee must document the following information in the corrective action log, within 24 hours of discovery of any condition listed in Part 8.1 or upon notification from a subcontractor:
 - 8.3.1.1 Date the problem was identified;
 - 8.3.1.2 Summary of corrective action taken or to be taken (or, for conditions triggering corrective actions identified in Part 8.1, where the determination is made that action is not necessary, the basis for this determination);
 - 8.3.1.3 Notice of whether SWPPP modifications were required as a result of this discovery or corrective action; and
 - 8.3.1.4 Date corrective action completed.
- 8.3.2 A permittee must retain a copy of the corrective action log on-site with the SWPPP as required in Part 9.4.

8.4 Corrective Action Report

If monitoring pursuant to Part 3.2 Discharge to Impaired Water Body exceeds a WQS, the permittee must submit a corrective action report consistent with Part 9.2; except when there is a discharge that results from a storm event in that same day that is larger than the local 2-year, 24-hour storm.

8.5 Substantially Identical Outfalls

- 8.5.1 If the event triggering correction action is linked to an outfall that represents other substantially identical outfalls, the permittees review must assess the need for corrective action for each outfall represented by the outfall that triggered the review. Any necessary changes to control measures that affect these other outfalls must also be made before the next storm event if possible, or as soon as practicable following that storm event.

9.0 REPORTING AND RECORDKEEPING

9.1 Annual Report

- 9.1.1 All water quality monitoring data collected by the permittee pursuant to Part 3.2 Discharge to Impaired Water Body or Part 7.0 Monitoring must be submitted to DEC in an annual report. The annual report form must be submitted using EDMS by December 31 of each year during construction and upon submittal of the NOT (see Part 10.0). (Note: The monitoring data reported under this part does not need to conform to Appendix A Part 3.2.)
- 9.1.2 Monitoring results must be presented in a clearly legible format in tabular form. Upon written notification, DEC may require the permittee to submit the monitoring results on a more frequent basis. Monitoring and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this permit must be reported in a similar manner to DEC.
- 9.1.3 A permittee must sign and certify all annual reports in accordance with the requirements of Appendix A, Part 1.1.12, Signature Requirement and Penalties. All signed and certified legible original annual reports and all other reports and documents must be submitted to DEC Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

9.2 Corrective Action Report

If a corrective action report is required by Part 8.4 or Appendix A, Part 3.5, a permittee must submit a corrective action report to DEC via EDMS no later than 14 calendar days after receiving the monitoring results. The report must include the following:

- 9.2.1 APDES Permit Tracking Number;
- 9.2.2 Project name, physical address and location;
- 9.2.3 Name of receiving water;
- 9.2.4 Monitoring data from the event that exceeded a WQS;
- 9.2.5 An explanation of the conditions that caused the excursion;
- 9.2.6 Steps taken or planned (should corrective actions not yet be complete) to correct the violation; and
- 9.2.7 An appropriate contact name, telephone number and e-mail address.

9.3 Spill of Hazardous Substances Report

- 9.3.1 A permittee is prohibited from discharging hazardous substances or oil from a spill or other release. Alaska state law (18 AAC 75.300) and Part 4.9 requires all oil and hazardous substance release be reported to DEC Spill Prevention and Response program. Spill reporting placards can be found at the following webpage:
<https://dec.alaska.gov/spar/ppr/spill-information/reporting>.

9.3.2 To report a spill, call the nearest DEC Area Response Team Office and follow their reporting requirements:

- Southeast (Juneau) – 907-465-5340
- Central (Anchorage) – 907-269-3063
- Northern (Fairbanks) – 907-451-2121

Spills may also be reported online at <https://dec.alaska.gov/applications/spar/spill-reporter/>.

9.3.3 Outside of normal business hours, the permittee must call (800) 478-9300 to report the spill as soon as the permittee has knowledge of the discharge.

9.4 Retention of Records

A permittee must retain the following records at the site or the records must be readily available at a designated alternate location during the life of the construction activity and for a minimum of three years from the date that authorization under this permit expires or is terminated. This period may be extended by request of DEC at any time. Digital copies of documents will satisfy the requirements of this part as long as they meet or exceed the functionality of a physical copy

- 9.4.1 Records of all data used to complete the NOI to be covered by this permit;
- 9.4.2 A copy of the SWPPP (including any modifications made during the term of this permit);
- 9.4.3 A copy of all monitoring information (if applicable) and reports required by this permit;
- 9.4.4 A copy of all inspection reports generated in accordance with Part 6.0;
- 9.4.5 Documentation related to noncompliance and corrective actions taken pursuant to Part 8.0; and
- 9.4.6 Any other reports and certifications required by this permit.

9.5 Request for Submittal of Records

The DEC may request copies of all or a portion of the information collected and maintained in the SWPPP. A permittee must provide a response to written requests for records to the Department within 30 calendar days of receipt of a written request.

9.6 Miscellaneous Noncompliance Reporting

If noncompliance occurs which requires reporting but no other reporting schedule or deadline applies, then the noncompliance shall be reported by December 31 of the year in which it occurred.

10.0 TERMINATION OF PERMIT AUTHORIZATION

10.1 Submitting a Notice of Termination (NOT)

- 10.1.1 To terminate permit coverage, a permittee must submit a complete and accurate NOT using EDMS. The NOT certifies that one or more of the conditions in Part 10.2 have been met to terminate permit coverage. A permittee must comply with this permit until an NOT is submitted.

10.2 When to Submit a Notice of Termination

- 10.2.1 A permittee must submit an NOT within 30 calendar days after one or more of the following conditions have been met:

- 10.2.1.1 Final stabilization (as defined in Appendix C) has been achieved on all portions of the site, in accordance with Part 4.5.2, for which a permittee is responsible, all ground disturbing construction activity or use of support activities has been completed, and all temporary BMP's have been removed;
 - 10.2.1.2 A new permittee has assumed control according to Appendix A, Part 2.3, over all areas of the site that have not been finally stabilized;
 - 10.2.1.3 Authorization under an individual permit or alternative APDES general permit has been obtained, unless DEC has required that a permittee obtain such coverage under authority of Part 2.8, in which case authorization under this permit will automatically terminate;
 - 10.2.1.4 For residential construction only, temporary stabilization (as defined in Appendix C) has been completed and the residence has been transferred to the homeowner; or
 - 10.2.1.5 The planned construction activity identified on the original NOI was never initiated (e.g., no grading or earthwork was ever started) and plans for the construction have been permanently abandoned or indefinitely postponed.
- 10.2.2 A permittee subject to pending state or federal enforcement actions, including citizen suits brought under state or federal law, may not submit a NOT. The permittee must certify that it is not subject to any pending state or federal enforcement actions, including citizen suites brought under state or federal law⁶.

10.3 Submitting a Notice of Termination

- 10.3.1 A permittee must submit a NOT to terminate authorization under this permit.
- 10.3.1.1 To terminate permit coverage, a permittee must submit a complete and accurate NOT using DEC's Environmental Data Management System EDMS:
<https://dec.alaska.gov/water/edms>.
- 10.3.2 A permittee's authorization to discharge terminates at 11:59 pm of the day the NOT is signed.
- 10.3.3 If a permittee submits a NOT without meeting one or more of the conditions identified in Part 10.2, then the NOT is invalid and a permittee remains responsible for meeting the requirements of this permit until authorization is terminated pursuant to Part 10.3.2.

11.0 PERMIT REOPENER CLAUSE

11.1 Procedures for Modification or Revocation

Permit modification or revocation will be conducted according 18 AAC 83.130, 18 AAC 83.135, 18 AAC 83.140, or 18 AAC 83.145.

11.2 Water Quality Protection

If there is evidence indicating that the storm water discharges authorized by this permit cause, have the reasonable potential to cause or contribute to an excursion above any applicable WQS, the permittee may be required to obtain an individual permit in accordance with Part 2.8 of this permit, or the permit may be modified to include different limitations and/or requirements.

⁶ [18 AAC 83.130\(k\)](#).

11.3 Timing of Permit Modification

DEC may elect to modify the permit prior to its expiration (rather than waiting for the new permit cycle) to comply with any new statutory or regulatory requirements.

12.0 Electronic Reporting (E-Reporting) Rule (Phase II)

Phase II of the E-Reporting rule will integrate electronic reporting for all reports required by the Permit (e.g., Annual Reports and Certifications) and phased implementation is ongoing as of the issue date of this permit. Permittees should monitor DEC's E-Reporting Information website (<https://dec.alaska.gov/water/compliance/electronic-reporting-rule/>) for updates on Phase II of the E-Reporting Rule and will be notified when they must begin submitting all other reports electronically. Until such time, other reports by the Permit may be submitted in accordance with Appendix A – Standard Conditions.

13.0 Standard Conditions Applicable to Recording and Reporting

The permittee must comply with the following recording and reporting requirements, as described in Appendix A, Standard Conditions unless specified in the body of the permit:

- Retention of Records, Part 1.11.2;
- Records Contents, Part 1.11.3
- Special Reporting Obligations, Part 2.0; and
- Monitoring, Recording, and Reporting Requirements, Part 3.0.

Appendix A Standard Permit Conditions
APDES PERMIT
NONDOMESTIC DISCHARGES

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Appendix A of the permit contains standard regulatory language that must be included in all APDES permits. These requirements are based on the regulations and cannot be challenged in the context of an individual APDES permit action. The standard regulatory language covers requirements such as monitoring, recording, reporting requirements, compliance responsibilities, and other general requirements. Appendix A, Standard Conditions is an integral and enforceable part of the permit. Failure to comply with a Standard Condition in this Appendix constitutes a violation of the permit and is subject to enforcement.

1.0 Standard Conditions Applicable to All Permits

1.1 Contact Information and Addresses

1.1.1 Permitting Program

Documents, reports, and plans required under the permit and Appendix A are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone (907) 269-6285
Fax (907) 269-3487
Email: DEC.Water.WQPermit@alaska.gov

1.1.2 Compliance and Enforcement Program

Documents and reports required under the permit and Appendix A relating to compliance are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone Nationwide (877) 569-4114
Anchorage Area / International (907) 269-4114
Fax (907) 269-4604
Email: dec-wqreporting@alaska.gov

1.2 Duty to Comply

A permittee shall comply with all conditions of the permittee's APDES permit. Any permit noncompliance constitutes a violation of 33 U.S.C 1251-1387 (Clean Water Act) and state law and is grounds for enforcement action including termination, revocation and reissuance, or modification of a permit, or denial of a permit renewal application. A permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. 1317(a) for toxic pollutants within the time provided in the regulations that establish those effluent standards or prohibitions even if the permit has not yet been modified to incorporate the requirement.

1.3 Duty to Reapply

If a permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must apply for and obtain a new permit. In accordance with 18 AAC 83.105(b), a permittee with a currently effective permit shall reapply by submitting a new application at least 180 days before the existing permit expires, unless the Department has granted the permittee permission to submit an application on a later date. However, the Department will not grant permission for an application to be submitted after the expiration date of the existing permit.

1.4 Need to Halt or Reduce Activity Not a Defense

In an enforcement action, a permittee may not assert as a defense that compliance with the conditions of the permit would have made it necessary for the permittee to halt or reduce the permitted activity.

1.5 Duty to Mitigate

A permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

1.6 Proper Operation and Maintenance

1.6.1 A permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances that the permittee installs or uses to achieve compliance with the conditions of the permit. The permittee's duty to operate and maintain properly includes using adequate laboratory controls and appropriate quality assurance procedures. However, a permittee is not required to operate back-up or auxiliary facilities or similar systems that a permittee installs unless operation of those facilities is necessary to achieve compliance with the conditions of the permit.

1.6.2 Operation and maintenance records shall be retained and made available at the site.

1.7 Permit Actions

A permit may be modified, revoked and reissued, or terminated for cause as provided in 18 AAC 83.130. If a permittee files a request to modify, revoke and reissue, or terminate a permit, or gives notice of planned changes or anticipated noncompliance, the filing or notice does not stay any permit condition.

1.8 Property Rights

A permit does not convey any property rights or exclusive privilege.

1.9 Duty to Provide Information

A permittee shall, within a reasonable time, provide to the Department any information that the Department requests to determine whether a permittee is in compliance with the permit, or whether cause exists to modify, revoke and reissue, or terminate the permit. A permittee shall also provide to the Department, upon request, copies of any records the permittee is required to keep under the permit.

1.10 Inspection and Entry

A permittee shall allow the Department, or an authorized representative, including a contractor acting as a representative of the Department, at reasonable times and on presentation of credentials establishing authority and any other documents required by law, to:

- 1.10.1 Enter the premises where a permittee's regulated facility or activity is located or conducted, or where permit conditions require records to be kept;
- 1.10.2 Have access to and copy any records that permit conditions require the permittee to keep;
- 1.10.3 Inspect any facilities, equipment, including monitoring and control equipment, practices, or operations regulated or required under a permit; and
- 1.10.4 Sample or monitor any substances or parameters at any location for the purpose of assuring permit compliance or as otherwise authorized by 33 U.S.C. 1251-1387 (Clean Water Act).

1.11 Monitoring and Records

A permittee must comply with the following monitoring and recordkeeping conditions:

- 1.11.1 Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.
- 1.11.2 The permittee shall retain records in Alaska of all monitoring information for at least three years, or longer at the Department's request at any time, from the date of the sample, measurement, report, or application. Monitoring records required to be kept include:
 - 1.11.2.1 All calibration and maintenance records,
 - 1.11.2.2 All original strip chart recordings or other forms of data approved by the Department for continuous monitoring instrumentation,
 - 1.11.2.3 All reports required by a permit,
 - 1.11.2.4 Records of all data used to complete the application for a permit,
 - 1.11.2.5 Field logbooks or visual monitoring logbooks,
 - 1.11.2.6 Quality assurance chain of custody forms,
 - 1.11.2.7 Copies of discharge monitoring reports, and
 - 1.11.2.8 A copy of this APDES permit.
- 1.11.3 Records of monitoring information must include:
 - 1.11.3.1 The date, exact place, and time of any sampling or measurement;
 - 1.11.3.2 The name(s) of any individual(s) who performed the sampling or measurement(s);
 - 1.11.3.3 The date(s) and time any analysis was performed;
 - 1.11.3.4 The name(s) of any individual(s) who performed any analysis;
 - 1.11.3.5 Any analytical technique or method used; and
 - 1.11.3.6 The results of the analysis.
- 1.11.4 Monitoring Procedures

Analyses of pollutants must be conducted using test procedures approved under 40 CFR Part 136, adopted by reference at 18 AAC 83.010, for pollutants with approved test procedures, and using test procedures specified in the permit for pollutants without approved methods.

1.12 Signature Requirement and Penalties

- 1.12.1 Any application, report, or information submitted to the Department in compliance with a permit requirement must be signed and certified in accordance with 18 AAC 83.385. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under a permit, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be subject to penalties under 33 U.S.C. 1319(c)(4), AS 12.55.035(c)(1)(B), (c)(2) and (c)(3), and AS 46.03.790(g).
- 1.12.2 In accordance with 18 AAC 83.385, an APDES permit application must be signed as follows:
 - 1.12.2.1 For a corporation, a responsible corporate officer shall sign the application; in this subsection, a responsible corporate officer means:
 - 1.12.2.1.1 A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - 1.12.2.1.2 The manager of one of more manufacturing, production, or operating facilities, if
 - 1.12.2.1.2.1 The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - 1.12.2.1.2.2 The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - 1.12.2.1.2.3 Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - 1.12.2.2 For a partnership or sole proprietorship, by the general partner or the proprietor, respectively, shall sign the application.
 - 1.12.2.3 For a municipality, state, federal, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means:
 - 1.12.2.3.1 The chief executive officer of the agency; or
 - 1.12.2.3.2 A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.
- 1.12.3 Any report required by an APDES permit, and a submittal with any other information requested by the Department, must be signed by a person described in Appendix A, Part 1.12.2, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1.12.3.1 The authorization is made in writing by a person described in Appendix A, Part 1.12.2;

- 1.12.3.2 The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, including the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility; or an individual or position having overall responsibility for environmental matters for the company; and
- 1.12.3.3 The written authorization is submitted to the Department to the Permitting Program address in Appendix A, Part 1.1.1.
- 1.12.4 If an authorization under Appendix A, Part 1.12.3 is no longer effective because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Appendix A, Part 1.12.3 must be submitted to the Department before or together with any report, information, or application to be signed by an authorized representative.
- 1.12.5 Any person signing a document under Appendix A, Part 1.12.2 or Part 1.12.3 shall certify as follows:

"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."

1.13 Proprietary or Confidential Information

- 1.13.1 A permit applicant or permittee may assert a claim of confidentiality for proprietary or confidential business information by stamping the words "confidential business information" on each page of a submission containing proprietary or confidential business information. The Department will treat the stamped submissions as confidential if the information satisfies the test in 40 CFR §2.208, adopted by reference at 18 AAC 83.010, and is not otherwise required to be made public by state law.
- 1.13.2 A claim of confidentiality under Appendix A, Part 1.13.1 may not be asserted for the name and address of any permit applicant or permittee, a permit application, a permit, effluent data, sewage sludge data, and information required by APDES or NPDES application forms provided by the Department, whether submitted on the forms themselves or in any attachments used to supply information required by the forms.
- 1.13.3 A permittee's claim of confidentiality authorized under Appendix A, Part 1.13.1 is not waived if the Department provides the proprietary or confidential business information to the EPA or to other agencies participating in the permitting process. The Department will supply any information obtained or used in the administration of the state APDES program to the EPA upon request under 40 CFR §123.41, as revised as of July 1, 2005. When providing information submitted to the Department with a claim of confidentiality to the EPA, the Department will notify the EPA of the confidentiality claim. If the Department provides the EPA information that is not claimed to be confidential, the EPA may make the information available to the public without further notice.

1.14 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any action or relieve a permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under state laws addressing oil and hazardous substances.

1.15 Cultural and Paleontological Resources

If cultural or paleontological resources are discovered because of this disposal activity, work that would disturb such resources is to be stopped, and the Office of History and Archaeology, a Division of Parks and Outdoor Recreation of the Alaska Department of Natural Resources (<https://dnr.alaska.gov/parks/oha>), is to be notified immediately at (907) 269-8721.

1.16 Fee

A permittee must pay the appropriate permit fee described in 18 AAC 72.

1.17 Other Legal Obligations

This permit does not relieve the permittee from the duty to obtain any other necessary permits from the Department or from other local, state, or federal agencies and to comply with the requirements contained in any such permits. All activities conducted and all plan approvals implemented by the permittee pursuant to the terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

2.0 Special Reporting Obligations

2.1 Planned Changes

2.1.1 The permittee shall give notice to the Department as soon as possible of any planned physical alteration or addition to the permitted facility if:

2.1.1.1 The alteration or addition may make the facility a “new source” under one or more of the criteria in 18 AAC 83.990(44); or

2.1.1.2 The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged if those pollutants are not subject to effluent limitations in the permit or to notification requirements under 18 AAC 83.610.

2.1.2 If the proposed changes are subject to plan review, then the plans must be submitted at least 30 days before implementation of changes (see 18 AAC 15.020 and 18 AAC 72 for plan review requirements). Written approval is not required for an emergency repair or routine maintenance.

2.1.3 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.2 Anticipated Noncompliance

2.2.1 A permittee shall give seven days’ notice to the Department before commencing any planned change in the permitted facility or activity that may result in noncompliance with permit requirements.

2.2.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.3 Transfers

- 2.3.1 A permittee may not transfer a permit for a facility or activity to any person except after notice to the Department in accordance with 18 AAC 83.150. The Department may modify or revoke and reissue the permit to change the name of the permittee and incorporate such other requirements under 33 U.S.C. 1251-1387 (Clean Water Act) or state law.
- 2.3.2 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.4 Compliance Schedules

- 2.4.1 A permittee must submit progress or compliance reports on interim and final requirements in any compliance schedule of a permit no later than 14 days following the scheduled date of each requirement.
- 2.4.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.5 Corrective Information

- 2.5.1 If a permittee becomes aware that it failed to submit a relevant fact in a permit application or submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit the relevant fact or the correct information.
- 2.5.2 Information must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.6 Bypass of Treatment Facilities

2.6.1 Prohibition of Bypass

Bypass is prohibited. The Department may take enforcement action against a permittee for any bypass, unless:

- 2.6.1.1 The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- 2.6.1.2 There were no feasible alternatives to the bypass, including use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. However, this condition is not satisfied if the permittee, in the exercise of reasonable engineering judgment, should have installed adequate back-up equipment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
- 2.6.1.3 The permittee provides notice to the Department of a bypass event in the manner, as appropriate, under Appendix A, Part 2.6.2.

2.6.2 Notice of bypass

- 2.6.2.1 For an anticipated bypass, the permittee submits notice at least 10 days before the date of the bypass. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the conditions of Appendix A, Parts 2.6.1.1 and 2.6.1.2.
 - 2.6.2.2 For an unanticipated bypass, the permittee submits 24-hour notice, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting.
 - 2.6.2.3 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.
- 2.6.3 Notwithstanding Appendix A, Part 2.6.1, a permittee may allow a bypass that:

- 2.6.3.1 Does not cause an effluent limitation to be exceeded, and
- 2.6.3.2 Is for essential maintenance to assure efficient operation.

2.7 Upset Conditions

- 2.7.1 In any enforcement action for noncompliance with technology-based permit effluent limitations, a permittee may claim upset as an affirmative defense. A permittee seeking to establish the occurrence of an upset has the burden of proof to show that the requirements of Appendix A, Part 2.7.2 are met.
- 2.7.2 To establish the affirmative defense of upset, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
 - 2.7.2.1 An upset occurred and the permittee can identify the cause or causes of the upset;
 - 2.7.2.2 The permitted facility was at the time being properly operated;
 - 2.7.2.3 The permittee submitted 24-hour notice of the upset, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting; and
 - 2.7.2.4 The permittee complied with any mitigation measures required under 18 AAC 83.405(e) and Appendix A, Part 1.5, Duty to Mitigate.
- 2.7.3 Any determination made in administrative review of a claim that noncompliance was caused by upset, before an action for noncompliance is commenced, is not final administrative action subject to judicial review.

2.8 Existing Manufacturing, Commercial, Mining, and Silvicultural Discharges

- 2.8.1 In addition to the reporting requirements under 18 AAC 83.410, an existing manufacturing, commercial, mining, and silvicultural discharger shall notify the Department as soon as that discharger knows or has reason to believe that any activity has occurred or will occur that would result in:
 - 2.8.1.1 The discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - 2.8.1.1.1 One hundred micrograms per liter (100 µg/L);
 - 2.8.1.1.2 Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile, 500 micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol, and one milligram per liter (1 mg/L) for antimony;
 - 2.8.1.1.3 Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
 - 2.8.1.1.4 The level established by the Department in accordance with 18 AAC 83.445.
 - 2.8.1.2 Any discharge, on a non-routine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - 2.8.1.2.1 Five hundred micrograms per liter (500 µg/L);
 - 2.8.1.2.2 One milligram per liter (1 mg/L) for antimony;
 - 2.8.1.2.3 Ten times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
 - 2.8.1.2.4 The level established by the Department in accordance with 18 AAC 83.445.

3.0 Monitoring, Recording, and Reporting Requirements

3.1 Representative Sampling

A permittee must collect effluent samples from the effluent stream after the last treatment unit before discharge into the receiving waters. Samples and measurements must be representative of the volume and nature of the monitored activity or discharge.

3.2 Reporting of Monitoring Results

The permittee shall summarize monitoring results on the annual report form or approved equivalent. The permittee shall submit its annual report at the interval specified in the permit. The permittee shall sign and certify all annual reports and other reports in accordance with the requirements of Appendix A, Part 1.12, Signature Requirement and Penalties. The permittee shall submit the legible originals of these documents to the ADEC Compliance and Enforcement Program at the address in Appendix A, Part 1.1.2.

3.3 Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than the permit requires using test procedures approved in 40 CFR Part 136, adopted by reference at 18 AAC 83.010, or as specified in this permit, the results of that additional monitoring must be included in the calculation and reporting of the data submitted in the DMR or annual report required by Appendix A, Part 3.2. All limitations that require averaging of measurements must be calculated using an arithmetic means unless the Department specifies another method in the permit. Upon request by the Department, the permittee must submit the results of any other sampling and monitoring regardless of the test method used.

3.4 Twenty-four Hour Reporting

A permittee shall report any noncompliance event that may endanger health or the environment as follows:

3.4.1 A report must be made:

- 3.4.1.1 Orally within 24 hours after the permittee becomes aware of the circumstances, and
- 3.4.1.2 In writing within five days after the permittee becomes aware of the circumstances.

3.4.2 A report must include the following information:

- 3.4.2.1 A description of the noncompliance and its causes, including the estimated volume or weight and specific details of the noncompliance;
- 3.4.2.2 The period of noncompliance, including exact dates and times;
- 3.4.2.3 If the noncompliance has not been corrected, a statement regarding the anticipated time the noncompliance is expected to continue; and
- 3.4.2.4 Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

3.4.3 An event that must be reported within 24 hours includes:

- 3.4.3.1 An unanticipated bypass that exceeds any effluent limitation in the permit (see Appendix A, Part 2.6, Bypass of Treatment Facilities).
- 3.4.3.2 An upset that exceeds any effluent limitation in the permit (see Appendix A, Part 2.7, Upset Conditions).

- 3.4.3.3 A violation of a maximum daily discharge limitation for any of the pollutants listed in the permit as requiring 24-hour reporting.
- 3.4.4 The Department may waive the written report on a case-by-case basis for reports under Appendix A, Part 3.4 if the oral report has been received within 24 hours of the permittee becoming aware of the noncompliance event.
- 3.4.5 The permittee may satisfy the written reporting submission requirements of Appendix A, Part 3.4 by submitting the written report via e-mail, if the following conditions are met:
 - 3.4.5.1 The Noncompliance Notification Form or equivalent form is used to report the noncompliance;
 - 3.4.5.2 The written report includes all the information required under Appendix A, Part 3.4.2;
 - 3.4.5.3 The written report is properly certified and signed in accordance with Appendix A, Parts 1.12.3 and 1.12.5.;
 - 3.4.5.4 The written report is scanned as a PDF (portable document format) document and transmitted to the Department as an attachment to the e-mail; and
 - 3.4.5.5 The permittee retains in the facility file the original signed and certified written report and a printed copy of the conveying email.
- 3.4.6 The e-mail and PDF written report will satisfy the written report submission requirements of this permit provided the e-mail is received by the Department within five days after the time the permittee becomes aware of the noncompliance event and the e-mail and written report satisfy the criteria of Part 3.4.5. The e-mail address to report noncompliance is: dec-wqreporting@alaska.gov

3.5 Other Noncompliance Reporting

A permittee shall report all instances of noncompliance not required to be reported under Appendix A, Parts 2.4 (Compliance Schedules), 3.3 (Additional Monitoring by Permittee), and 3.4 (Twenty-four Hour Reporting) at the time the permittee submits monitoring reports under Appendix A, Part 3.2. (Reporting of Monitoring Results). A report of noncompliance under this part must contain the information listed in Appendix A, Part 3.4.2 and be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

4.0 Penalties for Violations of Permit Conditions

Alaska laws allow the State to pursue both civil and criminal actions concurrently. The following is a summary of Alaska law. Permittees should read the applicable statutes for further substantive and procedural details.

4.1 Civil Action

Under AS 46.03.760(e), a person who violates or causes or permits to be violated a regulation, a lawful order of the Department, or a permit, approval, or acceptance, or term or condition of a permit, approval or acceptance issued under the program authorized by AS 46.03.020 (12) is liable, in a civil action, to the State for a sum to be assessed by the court of not less than \$500 nor more than \$100,000 for the initial violation, nor more than \$10,000 for each day after that on which the violation continues, and that shall reflect, when applicable:

- 4.1.1 Reasonable compensation in the nature of liquated damages for any adverse environmental effects caused by the violation, that shall be determined by the court according to the toxicity, degradability, and dispersal characteristics of the substance discharged, the sensitivity of the receiving environment, and the degree to which the discharge degrades existing environmental quality;
- 4.1.2 Reasonable costs incurred by the State in detection, investigation, and attempted correction of the violation;
- 4.1.3 The economic savings realized by the person in not complying with the requirements for which a violation is charged; and
- 4.1.4 The need for an enhanced civil penalty to deter future noncompliance.

4.2 Injunctive Relief

- 4.2.1 Under AS 46.03.820, the Department can order an activity presenting an imminent or present danger to public health or that would be likely to result in irreversible damage to the environment be discontinued. Upon receipt of such an order, the activity must be immediately discontinued.
- 4.2.2 Under AS 46.03.765, the Department can bring an action in Alaska Superior Court seeking to enjoin ongoing or threatened violations for Department-issued permits and Department statutes and regulations.

4.3 Criminal Action

Under AS 46.03.790(h), a person is guilty of a Class A misdemeanor if the person negligently:

- 4.3.1 Violates a regulation adopted by the Department under AS 46.03.020(12);
- 4.3.2 Violates a permit issued under the program authorized by AS 46.03.020(12);
- 4.3.3 Fails to provide information or provides false information required by a regulation adopted under AS 46.03.020(12);
- 4.3.4 Makes a false statement, representation, or certification in an application, notice, record, report, permit, or other document filed, maintained, or used for purposes of compliance with a permit issued under or a regulation adopted under AS 46.03.020(12); or
- 4.3.5 Renders inaccurate a monitoring device or method required to be maintained by a permit issued or under a regulation adopted under AS 46.03.020(12).

4.4 Other Fines

Upon conviction of a violation of a regulation adopted under AS 46.03.020(12), a defendant who is not an organization may be sentenced to pay a fine of not more than \$10,000 for each separate violation (AS 46.03.790(g)). A defendant that is an organization may be sentenced to pay a fine not exceeding the greater of: (1) \$200,00; (2) three times the pecuniary gain realized by the defendant as a result of the offense; or (3) three times the pecuniary damage or loss caused by the defendant to another, or the property of another, as a result of the offense (AS 12.55.035(c)(B), (c)(2), and (c)(3)).

Appendix B Acronyms (for the purposes of this permit)

ADEC	Alaska Department of Environmental Conservation
ADF&G	Alaska Department of Fish & Game
AK-CESCL	Alaska Certified Erosion and Sediment Control Lead
APDES	Alaska Pollutant Discharge Elimination System
BMP	Best Management Practice
CESSWI	Certified Erosion, Sediment and Storm Water Inspector
CFR	Code of Federal Regulations
CGP	Construction General Permit
CISEC	Certified Inspector of Sediment and Erosion Control
CPESC	Certified Professional in Erosion and Sediment Control
CPISM	Certified Professional in Industrial Stormwater Management
CPSWQ	Certified Professional in Storm Water Quality
CWA	Clean Water Act
DWPA	Drinking Water Protection Areas
ELG	Effluent Limit Guideline
EPA	United States Environmental Protection Agency
ESA	Endangered Species Act
FWS	United States Fish and Wildlife Service
MS4	Municipal Separate Storm Sewer System
MSGP	Multi-Sector General Permit
NHPA	National Historic Preservation Act
NMFS	United States National Marine Fisheries Service
NOI	Notice of Intent
NOT	Notice of Termination
PAM	Polyacrylamides
POTW	Publicly Owned Treatment Works
PWS	Public Water Systems
SHPO	State Historic Preservation Office
SWPPP	Storm Water Pollution Prevention Plan
THPO	Tribal Historic Preservation Officer
TMDL	Total Maximum Daily Load
WOTUS	Waters of the United States
WQS	Water Quality Standard

Appendix C Definitions (for the purposes of this permit)

2-year, 24-hour storm event – Means the maximum 24-hour precipitation event with a probable recurrence interval of once in two (2) years, respectively.

Active Treatment System (ATS) – For the purposes of this permit, means a treatment system comprised of automated chemical dispensing, mechanical aeration, pumps, and/or mechanical filtration that employs chemical coagulation, chemical flocculation, or electrocoagulation in order to reduce turbidity caused by fine suspended sediment. The system may also use gravity separation, inert media filtration and absorptive media. It does not include the passive application of treatment chemicals through the use of pre-manufactured products (e.g. floc logs, floc blocks, etc).

Actively Staffed – Projects that employ a sufficient number of essential personnel to maintain day-to-day operations at a construction site. Examples of essential personnel usually include a project engineer, foreman, or inspectors.

Activity – Any “point source” or any other facility or activity (including land or appurtenances thereto) that is subject to regulation under the APDES program.

Alaska Climatic Regions – For the purposes of this permit, means the climatic region (Coastal, South-central, Western, Interior, and Arctic) that the construction activity is located.

Anionic Polyacrylamide – Means a negatively charged chemical agent that binds soil particles together, which promotes coagulation and rapid settling.

Arid Areas – Areas with an average total precipitation of 0 to 10 inches. See xmacis.rcc-acis.org/ for precipitation data from the weather station closest to the construction project.

Best Management Practices (BMPs) – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States (U.S.). BMPs also include treatment requirements, operating procedures, and practice to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Buffer – For the purposes of this permit, means a setback that establishes a no-disturbance vegetated zone along and around waters of the U.S.. The buffer consists of a dense turf or vegetation judiciously placed across the path of surface runoff in a way that promotes sheet flow that can reduce the velocity of flow, increase the likelihood of infiltration, and promote the trapping and settling of suspended matter. It may be used in combination with other control measures in a treatment train approach to promote erosion and sediment control.

Business Day (or work day) – A day on which work is performed on site. For State offices, typically, Monday thru Friday with the exception of state holidays. For state holidays, see <https://doa.alaska.gov/calendar>.

Borrow Area – The areas where materials are dug for use as fill, either onsite or off-site.

Bypass – Defined in [40 CFR §122.41](#) and incorporated here by reference. Bypass means the intentional diversion of waste streams from any portion of a treatment facility. See Appendix A, Part 2.6.

Cationic Treatment Chemical – For the purposes of this permit, means polymers, flocculants, or other chemicals that contain an overall positive charge. Among other things, they are used to reduce turbidity in storm water discharges by chemically bonding to the overall negative charge of suspended silts and other soil materials and causing them to bind together and settle out. Common examples of cationic treatment chemicals are chitosan and cationic PAM.

Clean Water Act (CWA) – Means the Clean Water Act or the Federal Water Pollution Control Act, 33 U.S.C. section 1251 et seq.

Clearing – For the purposes of this permit, means the cutting down and removal of trees and brush without the disturbance of soils and the root mass.

Coagulants – Are substances that cause clumping of particles in a discharge to settle out impurities, often induced by chemicals such as lime, alum, and iron salts.

Commencement of Construction Activities or Construction Activity – For the purposes of this permit, means the initial disturbance of soils associated with clearing that disturbs the vegetative map/grubbing, grading, or excavating activities or other construction-related activities (e.g., stockpiling of fill material, establishment of staging areas, or development of project-specific material sources).

Common Plan of Development or Sale – For the purposes of this permit, means a site where multiple separate and distinct construction activities may be taking place at different times on different schedules, but still under a single plan. Examples include:

- 1) phased projects and projects with multiple filings or lots, even if the separate phases or filings/lots will be constructed under separate contract or by separate owners (e.g., a development where lots are sold to separate builders);
- 2) a development plan for a rural infrastructure project that may be phased over multiple years and is under a consistent plan for long-term development (e.g., a project that is designed to be built over several years, however funding is available for those phases on a year-to-year basis). Projects that have multiple year development plans but have year-to-year funding shall submit NOI and NOT at the beginning and end of each funded phase of the project; and
- 3) projects in a contiguous area that may be unrelated but still under the same contract, such as construction of a building extension and a new parking lot at the same facility.

If the project is part of a common plan of development or sale, the disturbed area of the entire plan shall be used in determining permit requirements. For land subdivided for residential lots, see the definition of ‘Residential Subdivision’ for further discussion of the requirements.

Where discrete construction projects within a larger common plan of development or sale are located one-quarter mile or more apart and the area between the projects is not being disturbed, each individual project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not being disturbed. If a utility company is constructing new trunk lines off an existing transmission line to serve separate residential subdivisions located more than one-quarter mile apart, the two trunk line projects could be considered to be separate projects.

Control Measure – For the purposes of this permit, refers to any BMP or other method used to prevent or reduce the discharge of pollutants to waters of the U.S..

Construction and Development Rule (C&D Rule) – As published in 40 CFR §450 is the regulation requiring effluent limitations guidelines (ELG’s) and new source performance standards (NSPS) for controlling the discharge of pollutants from construction sites.

Disaster – Has the meaning in AS 26.23.900. As defined in AS 26.23.900 the term includes, but is not limited to, the occurrence or imminent threat of widespread or severe damage, injury, loss of life or property, or shortage of food, water, or fuel resulting from an incident such as storm, high water, wind-driven water, tidal wave, tsunami, earthquake, volcanic eruption, landslide,

mudslide, avalanche, snowstorm, prolonged extreme cold, drought, fire, flood, epidemic, explosion, or riot; the release of oil or a hazardous substance if the release requires prompt action to avert environmental danger or mitigate environmental damage; and equipment failure if the failure is not a predictably frequent or recurring event or preventable by adequate equipment maintenance or operation.

Disaster Emergency – For the purposes of this permit, means the condition declared by proclamation of the governor or declared by the principal executive officer of a political subdivision to designate the imminence or occurrence of a disaster.

Department or DEC – Refers to the Alaska Department of Environmental Conservation

Discharge – When used without qualification means the “discharge of a pollutant.” See 40 CFR 122.2.

Discharge of Storm Water Associated with Construction Activity – For the purposes of this permit, refers to a discharge of pollutants in storm water from areas where soil disturbing activities (e.g., clearing, grading, or excavation), construction materials or equipment storage or maintenance (e.g., fill piles, borrow area, concrete truck chute washdown, fueling), or other industrial storm water directly related to the construction process (e.g., concrete or asphalt batch plants) are located.

Discharge Point – Means the location where collected and concentrated storm water flows are discharged from the construction site.

Disturbed Area – Is a portion of any site that has been altered from pre-existing conditions, including but not limited to the following: providing access to a site, grubbing and clearing of vegetation (including the roots), grading, earth moving, altering land forms, and other construction-related activities (such as placement of project related stockpiles atop a soil surface).

Effluent – For the purposes of this permit, means any discharge of storm water and allowable non-storm water by a permittee either to the receiving water or beyond the property boundary controlled by the permittee.

Effluent Limit Guideline – Defined in 40 CFR §122.a as a regulation published by the Administrator under section 304(b) of the Clean Water Act to adopt or review effluent limitations.

Eligible – Qualified for authorization to discharge storm water under this general permit.

Equivalent Analysis Waiver – Means a waiver, available only to small construction activities which discharge to non-impaired waters only, based on the permittee performance of an equivalent analysis using existing instream concentrations, expected growth in pollutant concentrations from all sources, and a margin of safety.

Erosion – Is the process of wearing away of the land surface by water, wind, ice, gravity, or other geologic agents.

Erosion Control Measures – Are control measures intended to minimize dislodging and mobilizing of sediment particles.

Excavation Dewatering – The practice of dewatering excavation areas through the use of pumps placed within the excavation or well pumps in adjacent dewatering wells which lower the water table to provide a relative dry working condition.

Exceptional Recreational or Ecological Significance – For the purposes of this permit, means a waterbody that is important, unique, or sensitive ecologically and has been designated as an Outstanding Natural Resource Water or Tier 3 water.

Fall Freeze-up – For the purposes of this permit, means for planning purposes in the development of the SWPPP and initial planning of control measure maintenance the date in the fall that air temperatures will be predominately below freezing. The Fall Freeze-up can be estimated by using the 5-year moving average from the First/Last dates where the minimum temperature below a threshold of 32.5 degrees Fahrenheit will occur on or after the given date for the weather station closest to the site on the website xmacis.rcc-acis.org. NOTE: this estimation of “Fall Freeze-up” is for planning purposes only. During construction the permittee will need to maintain control measures based on actual conditions.

Facility – See “activity.”

Federal Facility – Any buildings, installations, structures, land, public works, equipment, aircraft, vessels, and other vehicles and property, owned by, or constructed or manufactured for the purpose of leasing to, the Federal government.

Field Measurements – Are testing procedures performed in the field with portable field-testing kits or meters.

Fill-only projects – For the purposes of this permit, means projects where the road prism or gravel pad is constructed using low-erodible fill material placed over an undisturbed vegetative mat. Typically, there is not soil disturbance that may be subject to erosion.

Flocculants – Are substances that interact with suspended particles and bind them together to form flocs. These flocs more readily settle out compared to individual particles.

Frozen Ground – For the purposes of this permit, is characterized by soil temperature below freezing. Frozen ground by itself is not considered an acceptable stabilization control measure. It may be used in combination with control measures (e.g. track walking, downgradient control measures, etc.)

Good Housekeeping Measures – For the purposes of this permit, means storm water controls designed to reduce or eliminate the addition of pollutants to construction site discharges through analysis of pollutant sources, implementation of proper handling and/or disposal practices, employee education, and other actions.

Grubbing – For the purposes of this permit, means the stripping and removal of the root mass on or near the ground surface. This is considered soil disturbance activity and requires coverage under this permit.

Hazardous Materials or Hazardous Substances or Hazardous or Toxic Waste – For the purposes of this permit, any liquid, solid, or contained gas that contain properties that are dangerous or potentially harmful to human health or the environment. See also 40 CFR §261.2.

Immediately – No later than the end of the next work day, following the day when the soil disturbing activities have temporarily or permanently ceased.

Impaired Water – (or “**Water Quality Impaired Water**” or “**Water Quality Limited Segment**”) is defined as a water that is impaired for purposes of this permit if it has been identified by the State of Alaska or EPA pursuant to Section 303(d) of the Clean Water Act as not meeting applicable State **WQSs** (These waters are called “water quality limited segments” under 40 CFR §30.2(j)). Impaired waters include both waters with approved or established TMDLs, and those for which a TMDL has not yet been approved or established. For discharges that enter a separate storm sewer system prior to discharge, the first water of the U.S. to which you discharge is the waterbody that receives the stormwater discharge from the storm sewer system. For more information and current listing of impaired waters, see <https://dec.alaska.gov/water/water-quality/integrated-report/>.

Indian Country – Defined at 40 CFR §122.2 to mean:

1. All land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation;
2. All dependent Indian communities with the borders of the United States whether within the originally or subsequently acquired territory thereof and whether within or without the limits of a state; and
3. All Indian allotments, the Indian titles to which have not been extinguished, including rights-of-ways running through the same.

Infeasible – Defined in [40 CFR §450.11](#) and incorporated here by reference. Infeasible means not technologically possible, or not economically practicable and achievable in light of best industry practices.

Large Construction Activity – Defined at 40 CFR §122.26(b)(14)(x) and incorporated here by reference. A large construction activity includes clearing, grading, and excavating resulting in a land disturbance that will disturb equal to or greater than five acres of land or will disturb less than five acres of total land area but is part of a larger common plan of development or sale that will ultimately disturb equal to or greater than five acres. Large construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity of conveyance channels, or original purpose of the site.

Linear Project – Is a land disturbing activity as conducted by an underground/overhead utility or highway department, including but not limited to any cable line or wire for the transmission of electrical energy; any conveyance pipeline for transportation of gaseous or liquid substance; any cable line for communications; or any other energy resource transmission right-of-way or utility infrastructure (e.g., roads and highways) along a long narrow area.

Maintenance – Activities performed to maintain the original line and grade, hydraulic capacity of conveyance channels, or original purpose of the site. For the purposes of this permit, means projects that repair, rehabilitate, or replace existing structures or facilities, provided that the maintenance activity does not change the original purpose of the structure or facility. Maintenance may include minor deviations in the configuration of the structure or facility due to changes in materials, construction methods, or current construction codes or safety standards.

Master Plan – For the purposes of this permit, means if the permittee has a long-range master plan of development (e.g. a rural infrastructure improvement project or military base construction) where some portions of the master plan are a conceptual rather than a specific plan of future development and the future construction activities would, if they occur at all, happen over an extended time period, the permittee may consider the “conceptual” phases of a master plan to be separate “common plans” provided the periods of construction for the physically interconnected phases do not overlap.

Mean Annual Precipitation – This is the average total precipitation based on weather records. This data is available on the website for the NOAA Regional Climate Centers: <https://xmacis.rcc-acis.org/>.

Minimize – To reduce and/or eliminate to the extent achievable using control measures and good housekeeping measures that are technologically available and economically practicable and achievable in light of best industry practices.

Minimize Pollutant Discharge – See ‘Minimize’

Municipality – A home rule municipality is a municipal corporation and political subdivision. It is a city or a borough that has adopted a home rule charter, or it is a unified municipality. A home rule municipality has all legislative powers not prohibited by law or charter. (§ 3 ch 74 SLA 1985) A general law municipality is a municipal corporation and political subdivision and is an unchartered borough or city. It has legislative powers conferred by law. (§ 3 ch 74 SLA 1985)

Municipal Separate Storm Sewer System (MS4) – Defined at 40 CFR §122.26(b)(8) to mean a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

1. Owned and operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under Section 208 of the CWA that discharges to waters of the U.S.;
2. Designed or used for collecting or conveying storm water;
3. Which is not a combined sewer; and
4. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR §122.2.

Nephelometric Turbidity Unit (NTU) – Is an expression of the optical property that causes light to be scattered and absorbed rather than transmitted in a straight line through the water.

New Project – The “commencement of construction” occurs after the effective date of this permit.

New Source – For the purpose of this permit, is any source whose discharges are defined in 40 CFR §122.26(b)(14)(x) and (b)(15), that commences construction activity after the effective date of the new Construction & Development rule.

New Source Performance Standards (NSPS) – Are technology-based standards for a construction site that qualifies as new source under 40 CFR §450.24.

Non-Storm Water Discharges – Are discharges that do not originate from storm events. They can include, but are not limited to, discharges of process water, air conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

Notice of Intent (NOI) – Is the form required to be submitted by an applicant to the Department to obtain authorization of coverage under the Alaska Construction General Permit.

Notice of Termination (NOT) – Is the form required for terminating coverage under the Alaska Construction General Permit.

Ongoing Project – The “commencement of construction” occurs before the effective date of this permit.

Operator – For the purpose of this permit, and in the context of storm water associated with construction activity, means any person associated with a construction project that meets either of the following two criteria:

1. The person has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or
2. The person has day-to-day operational control of those activities at a site which are necessary to ensure compliance with a SWPPP for the site or other permit conditions (e.g., the person is

authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions). This definition is provided to inform permittees of the Department's interpretation of how the regulatory definitions of "owner or operator" and "facility or activity" are applied to discharges of storm water associated with construction activity.

Subcontractors generally are not considered operators for the purposes of this permit.

Owner – For the purposes of this permit, means the owner of any "facility or activity" subject to regulation under the APDES program.

Outfall – See 'Discharge Point'.

Permanent Storm Water Management Controls – For the purposes of this permit, refers to "Nondomestic wastewater treatment works" as described in 18 AAC 72.990. These controls include: dry extended detention ponds, constructed wetlands, wet ponds, sand filters, oil/grit separator, rotational flow separators, etc.

Permitted Ongoing Project – Is a construction project that commenced prior to the effective date of this permit, which has been covered by a prior general permit for storm water discharges.

Permittee – Is a person who is authorized to discharge pollutants in accordance with the conditions and requirements of this permit.

Person – For the purposes of this permit, means any public or private entity including but not limited to an individual, trust, firm, joint stock company, corporation (including government corporation), partnership, association, federal agency, state agency, city, borough, municipality, commission, political subdivision of the State, any interstate body or tribe.

Point Source – Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

Pollutant – Defined at 40 CFR §122.2. A partial listing from this definition includes: dredged spoil, solid waste, sewage, garbage, sewage sludge, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial or municipal waste.

Pollution Prevention Measures – See "Good Housekeeping Measures."

Polyacrylamide (PAM) – For the purposes of this permit, is a long-chain organic polymer developed to clarify drinking water that has many other beneficial uses including erosion control, enhanced infiltration, and nutrient removal. Some forms of PAM can be used to stabilize soils and remove fine suspended sediments from storm water runoff. In powder form PAM is easy to store, easy to transport, and is not a health concern when used as directed. PAM dissolved in nonaqueous emulsions are not recommended for use in this permit.

Polymers – For the purposes of this permit, means coagulants and flocculants used to enhance sediment removal capabilities of check dams, sediment traps, or basins. Common construction site polymers include polyacrylamide (PAM), chitosan, alum, polyaluminum chloride, and gypsum. A permittee using polymers should carefully consider the appropriateness of usage of these materials where there are sensitive or protected aquatic organisms in the receiving waters, including threatened or endangered species and their critical habitat.

Post-Construction Discharges – For the purposes of this permit, means the storm water discharges occurring after construction has been completed and final stabilization has been attained.

Practicable – For the purposes of this permit, means capable of being done after taking into consideration costs, existing technology, standards of construction practice, impacts to water quality, site conditions, and logistics in light of the overall project purpose.

Project Area – For the purposes of this permit, meant that

1. The areas on the construction site where storm water discharges originate and flow toward the point of discharge into the receiving waters (including areas where excavation, site development, or other ground disturbance activities occur) and the immediate vicinity. (Example: 1. Where bald eagles nest in a tree that is on or bordering a construction site and could be disturbed by the construction activity. 2. Where grading causes storm water to flow into a small wetland or other habitat that is on the site that contains listed species.)
2. The areas where storm water discharges flow from the construction site to the point of discharge into receiving waters. (Example: Where storm water flows into a ditch, swale, or gully that leads to receiving waters and where listed species (such as amphibians) are found in the ditch, swale, or gully.)
3. The areas where storm water from construction activities discharge into receiving waters and the areas in the immediate vicinity of the point of discharge. (Example: Where storm water from construction activities discharges into a stream segment that is known to harbor listed aquatic species.)
4. The areas where storm water BMPs will be constructed and operated, including any areas where storm water flows to and from BMPs. (Example: Where a storm water retention pond would be built.)
5. The areas upstream and /or downstream from construction activity that discharges into a stream segment that may be affected by the discharges. (Example: Where sediment discharged to a receiving stream settles downstream and impacts a breeding area of a listed aquatic species.)

Qualified Person – Given the range in size and types of projects in Alaska the following is a description of the experience and skills of a “qualified person” for the different roles typically required at a site to ensure compliance with this permit. The recommended experience or educational requirements for each of these “roles” is described below. The required training is described in Table 4. For projects that disturb 1 to less than 5 acres, all the roles described below will or may be carried out by one person. For the larger projects there will or maybe the need to have one person for each role (that is a project-specific choice by the permittee).

Storm Water Lead/SWPPP Manager

- A. A person knowledgeable in the principles and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharges from the construction activity.
- B. Such person shall have the authority to prepare the SWPPP, stop and/or modify construction activities as necessary to comply with the SWPPP and the terms and conditions of the permit, and modify the SWPPP.
- C. Such a person shall be responsible for inspections and recordkeeping.
- D. Such a person shall have the authority to supervise or initiate corrective actions identified by inspections, monitoring, or observation to fix control measures and minimize the discharge of pollutants.

SWPPP Preparer

A person knowledgeable in the principles and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality, the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharges from the construction activity, and is familiar with Part 5 as a means to implement this permit.

Storm Water Inspector

A person knowledgeable in the principles and practice of erosion and sediment controls who possesses the skills to assess conditions at the construction site that could impact storm water quality, the effectiveness of any erosion and sediment control measures selected to control the quality of storm water discharges from the construction activity, and is familiar with Part 6 as a means to ensure compliance with this permit. The person is familiar with the project specific inspection forms and how to fill them out, responsible for conducting inspections, and responsible for reporting the need for follow-up corrective action to the Storm Water Lead or site supervisor.

Monitoring Person

A person knowledgeable in the principles and practices of water quality monitoring who is familiar with Part 7 and the monitoring plan for the site and how to conduct water quality sampling, testing, and reporting.

Active Treatment System Operator

A person knowledgeable in the principles and practices of treatment systems that employs chemical coagulation, chemical flocculation, or electrocoagulation to aid in the treatment of storm water runoff who is familiar with Part 4.5 as a means to implement and comply with this permit.

(Table 4: Recommended Experience or Required Training for Specific Roles
is located on the following page.)

Table 4: Recommended Experience or Required Training for Specific Roles

Storm Water Role	Total Project Disturbed Acreage		
	1 to < 5 acres	5 acres to <20 Acres	> 20 Acres
<i>Storm Water Lead/SWPPP Manager</i>	Recommend AK-CESCL training, but not required	Be AK-CESCL certified	Be AK-CESCL certified
<i>SWPPP Preparer</i>	Be familiar with permit.	Recommend taking a course in SWPPP preparation.	Be AK-CESCL certified, visit the site prior to writing the SWPPP or soon after project start and revised the SWPPP based on site conditions. Recommend taking a course in SWPPP preparation.
<i>Storm Water Inspector</i>	Be familiar with permit and SWPPP.	Be AK-CESCL certified	Be AK-CESCL certified
<i>Monitoring Person</i>	Not Required	Not Required	Be AK-CESCL certified
<i>Active Treatment System Operator</i>	Be AK-CESCL certified and have general experience and knowledge of storm water control measures. Have operational experience with the specific equipment used on-site.	Be AK-CESCL certified and have general experience and knowledge of storm water control measures. Have operational experience with the specific equipment used on-site.	Be AK-CESCL certified and have general experience and knowledge of storm water control measures. Have operational experience with the specific equipment used on-site.

Note: The following training and certifications may substitute for AK-CESCL training and certification: CPESC, CESSWI, CPISM or CPSWQ by EnviroCert International, Inc (ECI, <https://envirocertintl.org>) or CISEC by CISEC, Inc. (<https://ecoplant.org/cisec/>).

Rain Gauge – For the purposes of this permit, means a type of instrument to gather and measure the amount of liquid precipitation occurring during a storm event for a set period of time.

Rainfall Erosivity Factor or R-Factor – Means a measure of the erosive force and intensity of rain in a normal year. Two components of the factor are total energy and the maximum 30-minute intensity of storms. The R-Factor is the sum of the product of these two components for all major storms in the area during an average year.

Rainfall Erosivity Waiver – Means a waiver, available only to small construction activities, that is based on the rainfall erosivity factor for the project.

- Reasonable** – For purposes of this permit, means the permittee has selected, designed, installed, implemented and maintained control measures in light of manufacture’s specifications and good engineering practices at the project to meet the control measures and good housekeeping measures established in Part 4.0 of the permit.
- Reasonable Time(s)** – For inspections it is time when inspections may occur, typically during normal business hours of 8:00 am to 5:00 pm Monday through Friday, except for those construction sites that are operational outside of these times. For information requests it is thirty (30) calendar days from the date of the receipt of a written request for information from the department, unless specified otherwise in this permit.
- Receiving Water** – The “Water of the United States” as defined in 40 CFR §122.2 into which the regulated storm water discharges
- Residential Subdivision** – For the purposes of this permit, means any parcel of land that is divided into smaller parcels with the intent of selling the smaller parcels for the development of residential homes for individual ownership.
- Rural Infrastructure Improvement Project** – For the purposes of this permit, means a project that is a rural water, wastewater, solid waste, or energy project that is funded, designed, or built by a third party such as the Alaska Native Tribal Health Consortium, DEC Village Safe Water Program, or the Alaska Energy Authority for a 2nd class city, Tribe, Community Association, or statutory improvement district.
- Rural Infrastructure Improvement Project Operators** – For the purposes of this permit, means the agency or entity with “design control over plans and specifications” that acts as the operator rather than the ultimate owner of the rural infrastructure improvement project.
- Sampling Point** – For the purposes of this permit, means that point at which storm water samples are collected where the storm water or authorized non-storm water is discharged from the site.
- Sediment** – Is solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.
- Sedimentation** – Is the process of deposition of suspended matter carried by water, wastewater, or other liquids by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.
- Sediment Control Measures** – Are control measures that serve to capture sediment particles that have mobilized and are entrained in storm water with the objective of removing sediment and other pollutants from the storm water discharge. Examples of sediment control measures include but not limited to berms, dikes, fiber rolls, silt fences, sandbags, or gravel bags.
- Semi-Arid Areas** – Areas with an average total precipitation of 10 to 20 inches. See xmacis.rcc-acis.org/ for precipitation data from the weather station closest to the project.
- Sensitive Area** – For the purposes of this permit, means any lakes, ponds, perennial and intermittent streams, vernal pools, wetlands, floodplains, floodways and areas with highly erodible soils, which need special protection.
- Sheet Flow** – Is slow-velocity runoff that flows or is directed to flow across an overland area where there are no defined channels and the water spreads out over a large area at a uniform depth. Sometimes referred to as “sheetwash.”

Site – The land or water area where any “facility or activity” is physically located or conducted, including adjacent and off-site land used in connection with the facility or activity, including related areas for support activities.

Small Construction Activity – Defined at 40 CFR §122.26(b)(15) and incorporated here by reference. A small construction activity includes clearing, grading, and excavating resulting in a land disturbance that will disturb equal to or greater than one (1) acre and less than five (5) acres of land or will disturb less than one (1) acre of total land area but is part of a larger common plan of development or sale that will ultimately disturb equal to or greater than one (1) acre and less than five (5) acres. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity of conveyance channels, or original purpose of the site.

Snowmelt – The conversion of snow into water runoff with the onset of warmer temperatures.

Soil Disturbing – Disturbing the soil surface and/or vegetative mat by grubbing, grading, excavating, or otherwise altering in a way that may increase erosion.

Spring Thaw – For planning purposes in the development of the SWPPP and initial planning of control measure maintenance the date in the spring that air temperatures will be predominately above freezing. Spring Thaw can be estimated by using the 5-year moving average from the First/Last dates where the minimum temperature below a threshold of 32.5 degrees Fahrenheit will occur on or after the given date for the weather station closest to the project site on the website xmacis.rcc-acis.org. NOTE: this estimation of “Spring Thaw” is for planning purposes only. During construction the permittee will need to maintain control measures based on actual conditions.

Stabilization – The use of vegetative and/or non-vegetative cover to prevent erosion and sediment loss in areas exposed by Construction Activities.

Temporary Stabilization – For the purposes of this permit, means protecting soils from erosion and sediment loss by rainfall, snowmelt, runoff, or wind, with a temporary vegetative and/or non-vegetative protection cover. Temporary stabilization may include a combination of surface roughening (track walking), temporary seeding, geotextiles, mulches, surface tackifiers, rolled erosion control products, gravel or paving, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re-disturb this area.

Final Stabilization – For the purposes of this permit, means that:

1. All soil disturbing activities at the site have been completed and either of the two following criteria shall be met:
 - a. a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
 - b. equivalent non vegetative permanent stabilization measures have been employed (such as the use of riprap, gabions, porous backfill (DOT&PF Specification 703-2.10), railroad ballast or subballast, ditch lining (DOT&PF Specification 610-2.01), geotextiles, or fill material with low erodibility as determined by an engineer familiar with the site and documented in the SWPPP).
2. When background native vegetation will cover less than 100 percent of the ground (e.g., arid areas, beaches), the 70 percent coverage criteria is adjusted as follows: if the native vegetation covers 50 percent of the ground, then 70 percent of 50 percent ($0.70 \times 0.50 = 0.35$) would require 35 percent total cover for final stabilization. On a beach with no natural vegetation, no stabilization is required.

3. In arid and semi-arid areas only, all soil disturbing activities at the site have been completed and both of the following criteria have been met:
 - a. Temporary erosion control measures (e.g., degradable rolled erosion control product) are selected, designed, and installed along with an appropriate seed base to provide erosion control for at least three years without active maintenance by the permittee;
 - b. The temporary erosion control measures are selected, designed, and installed to achieve 70 percent vegetative coverage within three years.
4. For individual lots in residential construction, final stabilization means that either:
 - a. The homebuilder has completed final stabilization as specified above, or
 - b. The homebuilder has established temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for, and benefits of, final stabilization.

For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land, staging areas for highway construction, etc.), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to “water of the United States,” and areas which are not being returned to their preconstruction agricultural use must meet the final stabilization criteria (1) or (2) or (3) above.

Steep Slope – For the purposes of this permit, mean any slope occurring on the construction site that is 20 percent or greater in grade for a length of the slope that exceeds 25 feet.

Storm Event – For the purposes of this permit, means a rainfall event that produces more than 0.5 inch of precipitation in 24 hours and that is separated from the previous storm event by at least 3 consecutive days of less than 0.1 inch of rain per day.

Storm Water – Storm water runoff, snowmelt runoff, and surface runoff and drainage.

Storm Water Controls – See ‘Control Measure’

Storm Water Discharge-Related Activities – Activities that cause, contribute to, or result in storm water point source pollutant discharges, including but not limited to: excavation, site development; grading and other surface disturbance activities; and measures to control storm water including the siting, construction and operation of BMPs to control, reduce or prevent storm water pollution.

Storm Water Inlet – A structure placed below grade to conduct water used to collect storm water runoff for conveyance purposes.

Storm Water Pollution Prevention Plan (SWPPP) – Means a site-specific, written document that: (1) identifies potential sources of storm water pollution at the construction site; (2) describes practices to reduce or eliminate pollutants in storm water discharges from the construction site; and (3) identifies procedures the permittee will implement to comply with the terms and conditions of this general permit.

Support Activities – For the purposes of this permit, means any concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, and borrow areas provided:

1. The support activity is directly related to the construction project that is covered under this general permit,

2. The support activity is not a commercial operation serving multiple unrelated construction projects by different permittees,
3. The support activity does not operate beyond the completion of the construction activity at the project it supports, and
4. Appropriate control measures are identified in the SWPPP covering the discharges from the support activity areas.

Material borrow areas that are developed specific for the projects and are non-contiguous to the project site (e.g. the material is barged in from another area not nearby the project area) are considered “support activities” however, they would not need to be routinely inspected as part of the project. These areas would need to comply with other conditions of the permit to control storm water discharge as described in the SWPPP. The permit provides an exception for concrete or asphalt plants used for highway paving projects that may also, incidental to the main project contract, pave residential driveways. This additional paving is allowed under this permit provided those activities are covered under the SWPPP.

For communities where equipment or materials are barged in, flown in, or shipped by Alaska Marine Highway, the support activities may serve more than one project if: (1) each project that qualifies for coverage under this permit files a project-specific NOI and includes an acknowledgement of the shared support activities; (2) identifies the operator responsible for maintaining those support activities in compliance with permit requirements; and (3) identifies the operator responsible for the support activities until an NOT is submitted at the conclusion of use of the support activity.

Tackifier and Soil Stabilizer (binder) – For the purposes of this permit, means hydraulically applied chemicals derived from natural and synthetic sources used for erosion control to promote adhesion among soil particles or mulch materials. In general soil stabilizers (also known as soil binders) are used to increase soil adhesion, which improves soil stabilization by reducing water and wind driven erosion. Tackifiers are used as “glue” to bind and immobilize straw, cellulose products, pine needles, or other mulch that has been applied to a seeded area. Common examples include polyacrylamide, guar, chloride compounds, psyllium, resins, enzymes, surfactants, and various polymers, starches, and other compounds.

Total Maximum Daily Load (TMDL) – The sum of the individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background. If receiving water has only one point source discharger, the TMDL is the sum of that point source WLA plus the LAs for any nonpoint sources of pollution and natural background sources, tributaries, or adjacent segments. TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measure.

TMDL Waiver – Means a waiver, available only to small construction activities, based on an EPA established or approved TMDL.

Treatment Chemicals – For the purposes of this permit, means polymers, flocculants, or other chemicals used to reduce turbidity in storm water. Tackifiers and soil stabilizers (binders) are not considered treatment chemicals.

Turbidimeter – For the purposes of this permit, means an instrument that measures the amount of light scattered at right angles to an incident light beam by particles present in a storm water sample.

Turbidity – Means a condition of water quality characterized by the presence of suspended solids and/or organic material.

Upset – Defined in 40 CFR §122.41 and incorporated here by reference. Upset means an exceptional incident in which there is unintentional and temporary non-compliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. See Appendix A, Part 2.7.

Water Quality Impaired – See ‘**Impaired Water.**’

Water Quality Standard (WQS) – For the purposes of this permit, means the Alaska Water Quality Standards (18 AAC 70) as approved by U.S. EPA. As defined in 40 CFR § 131.3 water quality standards are provisions of State or Federal law which consist of a designated use or uses for the waters of the U.S. and water quality criteria for such waters based upon such uses. Water quality standards are to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act.

waters of the U.S. (WOTUS) – Defined in 40 CFR §122.2 and incorporated here by reference.

Wetland – Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Winter Construction – For the purposes of this permit, means the commencement of construction specifically during frozen conditions to aid in construction. Typically, this period is from December to March and is approximately from after fall freeze-up to before spring thaw.

Winter Shutdown – For the purposes of this permit, means the cessation of soil disturbing or soil stabilizing construction activity for the winter. Typically this period is from October/November to April/May and is approximately from fall freeze-up to spring thaw.

Appendix D Small Construction Waivers and Instructions

These waivers are only available to storm water discharges associated with small construction activities (i.e., 1-5 acres). As the operator of a small construction activity, the operator may be able to qualify for a waiver in lieu of needing to obtain coverage under this general permit based on: (A) a low rainfall erosivity factor, (B) a TMDL analysis, or (C) an equivalent analysis that determines allocations for small construction sites are not needed. Each applicant, otherwise needing permit coverage, must notify DEC of its intention for a waiver. It is the responsibility of that person wishing to obtain a waiver from coverage under this general permit to submit a complete and accurate waiver certification as described below. Where the operator changes or another is added during the construction project, the new operator must also submit a waiver certification to be waived.

D.1 Rainfall Erosivity Waiver

Under this scenario the small construction project's rainfall erosivity factor calculation ("R" in the Revised Universal Soil Loss Equation) is less than 5 during the period of construction activity. The operator must certify to the Department that construction activity will occur only when the rainfall erosivity factor is less than 5. The period of construction activity begins at initial soil disturbance and ends with final stabilization. Where vegetation will be used for final stabilization, the date of installation of a stabilization practice that will provide temporary non-vegetative stabilization can be used for the end of the construction period, provided the operator commits (as a condition of waiver eligibility) to periodically inspect and properly maintain the area until the criteria for final stabilization as defined in the construction general permit have been met. If use of this temporary stabilization eligibility condition was relied on to qualify for the waiver, signature on the waiver with its certification statement constitutes acceptance of and commitment to complete the final stabilization process. The applicant must submit a waiver certification to the Department prior to commencing construction activities.

Note: The basis of the rainfall erosivity factor "R" was determined in accordance with Chapter 2 of Agriculture Handbook Number 703, Predicting Soil Erosion by Water: A Guide to Conservation Planning With the Revised Universal Soil Loss Equation (RUSLE), pages 21–64, dated January 1997; United States Department of Agriculture (USDA), Agricultural Research Service. R-factor information for Alaska can be found in the Fact Sheet and were obtained from RUSLE2 Version 2.66.8.4 https://fargo.nser1.purdue.edu/rusle2_dataweb/RUSLE2_Index.htm. (Database last modified on 03-27-2017).

If the operator is eligible for a waiver based on low erosivity potential, the operator may submit a rainfall erosivity waiver to the address listed in Appendix A, Part 1.1.1 and provide the following information on the waiver certification form in order to be waived from permitting requirements:

1. Name, address and telephone number of the operator;
2. Name (or other identifier), address, county or similar governmental subdivision, and latitude/longitude of the construction project or site;
3. Estimated construction start and completion (i.e., final stabilization) dates, and total acreage (to the nearest quarter acre) to be disturbed;
4. The rainfall erosivity factor calculation that applies to the active construction phase at your project site; and
5. A statement, signed and dated by an authorized representative as provided in Appendix A, Part 1.12, which certifies that the construction activity will take place during a period when the value of the rainfall erosivity factor is less than five.

The waiver certification form must be submitted using DEC's Environmental Data Management System EDMS: <https://dec.alaska.gov/water/edms>.

Note: If the R-factor is five or greater, you cannot apply for the rainfall erosivity waiver, and must apply for permit coverage as per Part 2.2 of the construction general permit, unless you qualify for the Water Quality Waiver as described below.

If the small construction project continues beyond the projected completion date given on the waiver certification, the applicant must recalculate the rainfall erosivity factor for the new project duration. If the R-factor is below five, the owner or operator must update all applicable information on the waiver certification and retain a copy of the revised waiver as part of the site SWPPP. The new waiver certification must be submitted prior to the projected completion date listed on the original waiver form to assure exemption from permitting requirements is uninterrupted. If the new R-factor is five or above, the applicant must submit an NOI, in accordance with Part 2.0 of the permit.

D.2 TMDL Waiver

This waiver is available if DEC or EPA has established or approved a TMDL that addresses the pollutant(s) of concern and has determined that controls on storm water discharges from small construction activity are not needed to protect water quality. The pollutant(s) of concern include sediment (such as total suspended solids, turbidity, or siltation) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the construction activity. Information on TMDLs that have been established or approved by EPA is available from EPA online at <https://www.epa.gov/tmdl/impaired-waters-and-tmdls-region-10> and from DEC online at <https://dec.alaska.gov/water/water-quality/integrated-report/>.

If an applicant of the construction activity is eligible for a waiver based on compliance with a DEC or EPA established or approved TMDL, the operator must provide the following information on the Waiver Certification form in order to be waived from permitting requirements:

1. Name, address and telephone number of the operator;
2. Name (or other identifier), address, county or similar governmental subdivision, and latitude/longitude of the construction project or site;
3. Estimated construction start and completion (i.e., final stabilization) dates, and total acreage (to the nearest quarter acre) to be disturbed;
4. The name of the water body(s) that would be receiving storm water discharges from your construction project;
5. The name and approval date of the TMDL;
6. A statement, signed and dated by an authorized representative as provided in Appendix A, Part 1.12 that certifies that the construction activity will take place and that the storm water discharges will occur, within the drainage area addressed by the TMDL.

D.3 Equivalent Analysis Waiver

This waiver is available for non-impaired waters only (see *2018 Approved Integrated Report*, or most current EPA-approved version: <https://integrated-report-adec.hub.arcgis.com/> and <https://dec.alaska.gov/water/water-quality/integrated-report/> for list of impaired waters). The operator can develop an equivalent analysis that determines allocations for the small construction site for the pollutant(s) of concern or determines that such allocations are not needed to protect water quality. This waiver requires a small construction site to develop an equivalent analysis based on existing in-stream concentrations, expected growth in pollutant concentrations from all sources, and a margin of safety.

If an operator wants to use this waiver, the operator must develop an equivalent analysis and provide the following information to be waived from permitting requirements:

1. Name, address and telephone number of the operator;
2. Name (or other identifier), address, county or similar governmental subdivision, and latitude/longitude of the construction project or site;
3. Estimated construction start and completion (i.e., final stabilization) dates, and total acreage (to the nearest quarter acre) to be disturbed;
4. The name of the water bodies that would be receiving storm water discharges from your construction project;
5. The equivalent analysis;
6. A statement, signed and dated by an authorized representative as provided in Appendix A, Part 1.12, that certifies that the construction activity will take place and that the storm water discharges will occur, within the drainage area addressed by the equivalent analysis.

D.4 Waiver Deadlines and Submissions

1. Waiver certifications must be submitted prior to commencement of construction activities.
2. If an operator submits a TMDL or equivalent analysis waiver request, the operators request is not waived until the Department approves the request. As such, the operator may not commence construction activities until receipt of approval from the Department.
3. Late Notifications: operators are not prohibited from submitting waiver certifications after initiating clearing, grading, excavation activities, or other construction activities. The Department reserves the right to take enforcement for any unpermitted discharges that occur between the time construction commenced and waiver authorization is granted.

Submittal of a waiver certification is an optional alternative to obtaining permit coverage for discharges of storm water associated with small construction activity, provided the operator qualifies for the waiver. Any discharge of storm water associated with small construction activity not covered by either a permit or a waiver may be considered an unpermitted discharge under the CWA. As mentioned above, the Department reserves the right to take enforcement for any unpermitted discharges that occur between the time construction commenced and either discharge authorization is granted or a complete and accurate waiver certification is submitted. The Department may notify any operator covered by a waiver that they must apply for a permit. The Department may notify any construction project that has been in non-compliance with a waiver that they may no longer use the waiver for future projects. Any member of the public may petition the Department to take action under this provision by submitting written notice along with supporting justification.

APPENDIX G
GRADING AND STABILIZATION
LOG

APPENDIX H
SPILL PLAN AND REPORTING
REQUIREMENTS

IT'S THE LAW!

AS 46.03.755, 18 AAC 75.300, 75.325 and 18 AAC 78.200

REPORT OIL AND HAZARDOUS SUBSTANCE SPILLS

During Normal Business Hours

call the nearest response team office:

**Central Alaska:
Anchorage**

(907) 269-3063
Fax: (907) 269-7648

**Northern Alaska:
Fairbanks**

(907) 451-2121
Fax: (907) 451-2362

**Southeast Alaska:
Juneau**

(907) 465-5340
Fax: (907) 465-5245

**Alaska Pipeline:
Fairbanks**

(907) 451-2121
Fax: (907) 451-2362

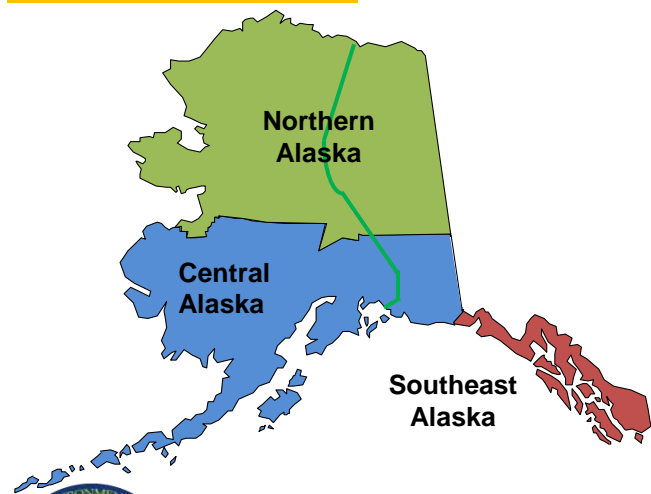
Outside Normal Business Hours

Toll Free

1-800-478-9300

International

1-907-269-0667



Alaska Department of
Environmental Conservation
Division of Spill Prevention and Response
[www.dec.alaska.gov/spar/ppr/spill-
information/reporting](http://www.dec.alaska.gov/spar/ppr/spill-information/reporting)

Hazardous Substance

Any hazardous substance spill, other than oil, must be reported immediately.

Oil – Petroleum Products

To Water

- ◆ Any amount spilled to water must be reported immediately.

To Land

- ◆ Spills in **excess of 55 gallons** must be reported immediately.
- ◆ Spills in **excess of 10 gallons, but 55 gallons or less**, must be reported within 48 hours after the person has knowledge of the spill.
- ◆ Spills of **1 to 10 gallons** must be recorded in a spill reporting log submitted to ADEC each month.

To Impermeable Secondary Containment Areas

- ◆ Any spills in **excess of 55 gallons** must be reported within 48 hours.

Additional Requirements for Underground Storage Tank Spill Reporting

Regulated Underground Storage Tank (UST) systems are defined at 18 AAC 78.005. Releases at heating oil tanks must be reported.

- You must report a *suspected* belowground release from a UST system, in any amount, within 24 hours (18 AAC 78.220(c)).
- You must report if your release detection system indicates two consecutive months of invalid or inconclusive results.
- If you observe unusual operating conditions, sudden loss, erratic dispensing (slow flow/no flow) or discharge to soil or water, **report it to the UST Unit:**

907-269-3055 or 269-7679



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION OIL & HAZARDOUS SUBSTANCES SPILL NOTIFICATION FORM

ADEC USE ONLY

ADEC SPILL #:	ADEC FILE #:	ADEC LC:
---------------	--------------	----------

PERSON REPORTING:		PHONE NUMBER:		REPORTED HOW? (ADEC USE ONLY) <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> PERS <input type="checkbox"/> E-mail	
DATE/TIME OF SPILL:		DATE/TIME DISCOVERED:		DATE/TIME REPORTED TO ADEC:	
INCIDENT LOCATION/ADDRESS:			DATUM: <input type="checkbox"/> NAD27 <input type="checkbox"/> NAD83		PRODUCT SPILLED:
			<input type="checkbox"/> WGS84 <input type="checkbox"/> Other _____		
			LAT.:		
			LONG.:		
QUANTITY SPILLED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds	QUANTITY CONTAINED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds		QUANTITY RECOVERED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds		QUANTITY DISPOSED: <input type="checkbox"/> gallons <input type="checkbox"/> pounds
POTENTIAL RESPONSIBLE PARTY:			OTHER PRP, IF ANY:		VESSEL NAME:
<i>Name/Business:</i>					VESSEL NUMBER:
<i>Mailing Address:</i>					
<i>Contact Name:</i>					> 400 GROSS TON VESSEL: <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Contact Number:</i>					
SOURCE OF SPILL:				CAUSE CLASSIFICATION:	
CAUSE OF SPILL:				<input type="checkbox"/> Under Investigation	
<input type="checkbox"/> Accident <input type="checkbox"/> Human Factors <input type="checkbox"/> Structural/Mechanical <input type="checkbox"/> Other					
CLEANUP ACTIONS:					
DISPOSAL METHODS AND LOCATION:					
AFFECTED AREA SIZE:	SURFACE TYPE: <i>(gravel, asphalt, name of river etc.)</i>		RESOURCES AFFECTED/THREATENED: <i>(Water sources, wildlife, wells, etc.)</i>		
COMMENTS:					

ADEC USE ONLY

SPILL NAME:		NAME OF DEC STAFF RESPONDING:		C-PLAN MGR NOTIFIED? <input type="checkbox"/> Yes <input type="checkbox"/> No	
DEC RESPONSE: <input type="checkbox"/> Phone follow-up <input type="checkbox"/> Field visit <input type="checkbox"/> Took Report		CASELOAD CODE: <input type="checkbox"/> First and Final <input type="checkbox"/> Open/No LC <input type="checkbox"/> LC Assigned		CLEANUP CLOSURE ACTION: <input type="checkbox"/> NFA <input type="checkbox"/> Monitoring <input type="checkbox"/> Transferred to CS or STP	
COMMENTS:		Status of Case: <input type="checkbox"/> Open <input type="checkbox"/> Closed		DATE CASE CLOSED:	
REPORT PREPARED BY:				DATE:	

APPENDIX I

TRAINING RECORDS



Certificate #
MSE-24-0001

Kelly Kennedy

Has successfully completed training for
Alaska Certified Erosion & Sediment Control Lead



Annie Collie

Approved AK-CESCL Instructor

Course Date: 3/14/2024
Expiration Date: 3/14/2027
Location: *Virtual* | Sponsor: MSE

SWPPP TRAINING LOG

Project Name: CEA Gambell Street OH to UG
Location: Gambell Street
Anchorage, Alaska 99501

Instructor's Name(s): _____

Instructor's Title(s): _____

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

Erosion Control BMPs

Good Housekeeping BMPs

Sediment Control BMPs

SWPPP Provisions or Conditions

Non-Storm Water BMPs

“Conducting Inspections” or “Inspection Reports”

Emergency Procedures

Specific Training Objective:

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

APPENDIX J
CORRECTIVE ACTION LOG

APPENDIX K
INSPECTION REPORT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SWPPP CONSTRUCTION SITE INSPECTION REPORT

*Detailed instructions for completing this form can be found on the Alaska Construction Forms website:
<http://dot.alaska.gov/stwddes/dcsconst/index.shtml>*

1.0 General Information

1.1 Project Name	Gambell Street OH to UG P1900043		
1.2 Project Number		1.3 Location	
1.4 NOI Tracking No.	Contractor's:	DOT&PF's:	
1.5a Date of Inspection		1.5b Start/End Times:	
1.6 Inspectors' Names	Contractor:	DOT&PF:	
1.7 Inspectors' Titles	Contractor:	DOT&PF:	
1.8 Inspectors' Contact Information	Contractor:	DOT&PF:	
1.9a AK-CESCL Cert. No.	Contractor:	DOT&PF:	
1.9b AK-CESCL Exp. Date	Contractor:	DOT&PF:	

1.10 Describe construction activities

1.11 Type of Inspection: Regular Post-storm Event Reduced Inspection Frequency Period

2.0 Weather Information

2.1 Describe the weather since the last inspection, or start of construction activities if first inspection.

Check all appropriate boxes.
 Clear Cloudy Rain Sleet Fog Snow High Winds Other:

2.2 Storm events. Complete storm event information if there were any storm events since the last inspection.

Storm event: a rainfall event that produces more than 0.5 inch of precipitation in 24 hours and that is separated from the previous storm event by at least 3 days of less than 0.1 inch of rain per day, CGP C16.

Estimated Start Date:					
Estimated Duration (#days):					
Approximate Amount of Precipitation (in):					

2.3 Weather at time of this inspection? Clear Cloudy Rain Sleet Fog Snow High Winds Other:
 Temperature:

3.0 Overall Site Issues

For complete instructions, please see instructions on Constructions Forms web page, by separate form

- **Overall Site Issue** -- These are general site issues that must be assessed during inspections.
- **Implemented?** – If a BMP should be installed at the time of the inspection and you marked “No” in the “BMP Installed” column, then you must check “Yes” in the “BMP Action Required?” column. If there is good reason to mark “no” in the “BMP Installed” column (such as the BMP is no longer needed and was removed) then you can mark “no” in the “BMP Action Required?” column and explain in the “Comments” column.
- **Corrective Action Required?** - When maintenance or some other corrective action is required, check “Yes” in this column.
- **Corrective Action Required, Complete by Date** - When a corrective action is required, before certifying the report, fill in the date when the corrective action can reasonably be expected to be completed. When a corrective action is NOT required, leave the “Complete by Date” blank.
- **If Corrective Action is required, describe Action and Location** – Anytime you check “Yes” in the “Corrective Action Required?” column, you must fill in the “Describe Corrective Action and Location” column as well.
- **Corrective Action Log** - When a Corrective Action is required as noted in this report, you must also enter all the information for this action in the Corrective Action Log and document on the Log the actual date of completed correction.

	Overall Site Issue	Response	Corrective Action Required?	If Corrective Action is required, describe Action and Location	Comments
3.1	Have stabilization measures been initiated on slopes and disturbed areas not actively being worked?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) required by the SWPPP to be delineated in the field, identified with barriers or markings?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.4	Are storm drain inlets properly protected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.5	Are the construction exits preventing sediment from being tracked into the street?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.6	Is trash/litter from work areas collected and disposed of properly?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		

	Overall Site Issue	Response	Corrective Action Required?	If Corrective Action is required, describe Action and Location	Comments
3.7	Are washout facilities (e.g., paint, concrete) available, clearly marked, and maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.8	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other potential pollutants?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.9	Are materials that are potential stormwater contaminants stored inside or under cover?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.10	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.11	Has Spill Response kit been used since the last inspection?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.12	Is the SWPPP Main Entrance Signage legible and does it contain the correct information?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.13	Are erodible stockpiles properly covered and have a perimeter control?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.14	Are any additional BMPs needed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		
3.15	(Other)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Complete by Date:		

List the project discharge point locations	Inspected? Circle

5.0 Site-specific BMPs

- **BMP Identifier** -- This column is a mandatory entry used to help correspond BMPs with the site map. Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary on the continuation sheets).
- **BMP and Location** - Describe and give the location of the structural and non-structural BMPs identified in your SWPPP in the BMP column below (Include areas that are required to be inspected by the CGP, such as material storage areas that are exposed to precipitation.)
- **BMP Installed?** – If a BMP should be installed at the time of the inspection and you marked “No” in the “BMP Installed” column, then you must check “Yes” in the “BMP Action Required?” column. If there is good reason to mark “no” in the “BMP Installed” column (such as the BMP is no longer needed and was removed) then you can mark “no” in the “BMP Action Required?” column and explain in the “Comments” column.
- **BMP Action Required?** - If a BMP needs repair, modification, replacement, maintenance or a new BMP is needed or a SWPPP amendment is needed, then a BMP Action is required.
- **BMP Action Required, Complete by Date** - Before certifying the report, fill in the date when the BMP Action can reasonably be expected to be completed. When a BMP Action is NOT required, leave the “Complete by Date” blank.
- **If BMP Action is required, describe Action and Location** – Anytime you check “Yes” for “BMP Action Required,” then you must also fill in the “Describe BMP Action and Location” column.
- **Corrective Action Log** - When a BMP Action is required as noted in this report, you must also enter all the information for this action in the Corrective Action Log, and document on the Log the actual date of completing correction.

BMP Identifier	BMP & Location	BMP Installed?	BMP Action Required?	If BMP Action is required, describe Action and Location	Comments
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		
		__Yes __No	__Yes __No Complete by Date:		

6.1 Areas of Inspection

Did you inspect all areas of the project that are required to be inspected by the CGP including areas disturbed by construction activity, areas used for storage of materials that are exposed to precipitation, areas where control measures are installed, areas where sediment or other pollutants have accumulated or been deposited and may have the potential for or are entering a stormwater conveyance system, locations where vehicles enter or exit the site, areas where storm water typically flows, points of discharge from the site, and portions of the site where temporary or permanent stabilization has been initiated?

- Yes
 No

If you did not inspect any required areas, list those locations here and explain why they weren't inspected.

6.2 Project Compliance

- *If there are incidences of non-compliance identified in this inspection report then you must summarize below the incidence(s) of non-compliance.*
- *If there is an Action Item described in the non-compliance box below that does not already have a "Complete by Date" assigned elsewhere in this report, then add a Complete by Date within the box.*

Non-Compliance

Incidence(s) of Non-compliance:

Action Item(s) and Complete by Date(s):

- *Check the box below if there are no incidences of non-compliance with the CGP:*

I certify that on the date of this inspection, this project was found to be in compliance with the terms of the applicable Construction General Permit.

CERTIFICATION STATEMENT

"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 gathered and evaluated 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."

Contractor's Duly Authorized Representative

DOT&PF's Duly Authorized Representative

Print name: _____

Print Name: _____

Title: Superintendent

Title: Project Engineer

Signature _____

Signature _____

Date _____

Date _____