

MS4 and Stormwater Management in the Mat-Su

Stakeholder Meeting #5 Summary

Date: October 3, 2022

Attendees: Attendance List Attached

Reported: Mandy Powers, Huddle AK

Location: Virtual via Microsoft Teams

Project: Mat-Su Borough MS4 Coordination

Subject: Stakeholder Meeting #5 Summary

Summary: MS4 & Stormwater Management in the Mat-Su Borough Stakeholder Meeting #5 – Management Details
The Stakeholder Meeting #5 for MS4 and Stormwater Management in the Matanuska-Susitna Borough (MSB) met virtually on Monday, October 3, 2022, from 11:30 am – 1pm using Microsoft Teams. The purpose of this meeting was to convene stakeholders from governmental agencies and other partners who will likely be required to obtain an MS4 permit from the Alaska Department of Environmental Conservation (ADEC) if the MSB is classified as an Urbanized Area by the US Census Bureau, sometime later in 2022.

Stakeholder members met to continue the technical discussion. Topics during this meeting included organizational options, program costs, and funding sources. Questions and comments were recorded and are summarized in a table at the end of this summary.

For the presentation materials, including the agenda and other handouts, please see the attachments.

Overview of the Meeting Presentation

1. **Welcome + Introductions**
2. **Quick Review of the Project Purpose**
 - a. Background
 - i. 2020 Census population count may trigger an Urbanized Area designation
 - ii. US Census Bureau determines the extent of the Urbanized Area
 - iii. Triggers MS4 permit from ADEC
 1. Approval to discharge stormwater into “waters of the US”
 - b. Responsible Parties
 - i. MSB, City of Wasilla, City of Palmer, DOT&PF
 - c. Purpose and need
 - i. Learn about MS4 process and requirements
 - d. Role of this stakeholder group
 - i. Provide input for how impacted agencies want to work together to structure the permit
 - e. Updated Stakeholder Meetings Plan
 - i. October 31: Wrap Up – last and final meeting of this phase
3. **Technical Discussion**
 - a. **Organizational Options**
 - i. Joint Approach or Individual Approach
 1. Organizational Options – Examples in Alaska
 - a. Municipality of Anchorage & DOT&PF – Co-permittees
 - b. Port of Alaska - single permittee
 - c. Joint Base Elmendorf-Richardson – single permittee
 - d. Fairbanks North Star Borough – single permittee
 - e. City of Fairbanks, City of North Pole, University of Alaska Fairbanks, DOT&PF – co-permittees
 - f. Fort Wainwright – single permittee

2. Advantages and Disadvantages of the Joint Approach
 - a. Advantages
 - Streamlines programs, not a lot of duplication of efforts
 - Shared costs and staffing
 - Consistency across jurisdictional boundaries (less confusing for the public)
 - Ease of operation and management where stormwater flows across jurisdictional boundaries
 - From a management standpoint, when the right of way changes, the management is more in sync
 - If there isn't an area where the ROW is an issue
 - b. Disadvantages
 - Requires one entity to take the lead
 - Requires a good working relationship among co-permittees
 3. Advantages and Disadvantages of the Single Permittee Approach
 - a. Advantages
 - Minimizes amount of coordination required
 - No legal cooperation needed
 - b. Disadvantages
 - Duplication of efforts
 - No cost sharing
 - Potentially confusing to have differing programs in a small geographic area
 - Unclear responsibilities where stormwater flows across separately owned MS4s.
 - Each entity has DOT roads, from their standpoint they would have three possible co-permittee requirements
- ii. Intergovernmental Agreements
1. Example 1: Fairbanks Intergovernmental Agreements
 - a. Agreement attached to meeting summary
 - b. Each co-permittee is individually responsible for what they own and operate
 - c. In the appendix, the agreement breaks down costs by lane miles of road. City of Fairbanks and DOT&PF each own about the same, with the City of North Pole and University of Alaska Fairbanks with smaller fractions
 - d. In general, the agreement breaks down the responsibilities of each entity, directly references the permit, and is not overly complicated
 2. Example 2: Municipality of Anchorage and DOT&PF
 - a. This is an example of co-permittees with a long and successful working relationship
 - b. This agreement is slightly more detailed than the previous example and includes more information about cost sharing between entities
 - c. The table in the agreement breaks down required permit actions and responsible entity
 - d. The document is a road map for the entities

b. Program Costs

i. Program Staffing

1. Program Management Staff

- a. Program set up and management, site inspection, MS4 mapping, plan reviews, water quality monitoring, QAPP, ADEC reporting, documentation, etc.

2. Operations and Maintenance Staff

- a. Street sweeping, snow removal/disposal, sanding, structure cleaning, etc.
- b. Staffing not quantified – more staffing may be needed to assist with tracking and increased activities

3. MOA has 4 Management staff, they also have support staff and contractors

4. DOT&PF Central Region has 1 management staff, support staff

5. Fairbanks is much harder to quantify

ii. MOA/DOT&PF Costs

1. Includes management and maintenance

2. Example from 2020 MS4 summary for ARDSA (see attachment)

3. Easy to find this data from their Annual Report

iii. City of Fairbanks Costs

1. Harder to quantify stormwater program costs in Fairbanks because M&O costs are not quantified in the annual report

2. The MS4 program in Fairbanks is unique in that the urbanized area is concentrated in Fairbanks/North Pole, very focused on the urban area

3. FNSB has a lot of unpaved roads, and is non-urbanized, which is why it didn't make sense for the City of Fairbanks and North Pole to be co-permittees with the Borough

c. Funding Sources

i. Existing Funding Sources

1. Local General Funds

- a. Tax dollars
- b. Fees – Permit fees are usually a part of a permit application

2. State General Funds

ii. Funding Opportunities

1. Grants (before the permit)

- a. Limited – Can't be used for compliance once you have the MS4
- b. Grant available right now – DEC Alaska Clean Water Actions Grant, potentially an opportunity for this group. Could be used for mapping work, develop quality assurance program ahead of time, etc (<https://dec.alaska.gov/water/water-quality/nonpoint-source-control/alaska-clean-water-actions/acwa-application/>)
- c. Fairbanks took this approach, used the grant for putting some key building blocks in place prior to getting their permit.

2. Stormwater Fees

a. Description

- Used throughout the US, very common
- Similar to fee for water, sewer, trash
- Usually charged monthly, applies within a jurisdictional boundary
- Not being used in AK, but are very common in other

- parts of the country
- Can be used for infrastructure management or permit compliance
- b. Advantages
 - Tends to be more equitable, because can include non-taxable entities that generate stormwater and use the resources (e.g. churches, schools)
 - Dedicated funding system
 - Can be used for infrastructure/capital projects
 - Fees are completely tailored to the revenue needs, similar to water and sewer utilities
- c. Common Stormwater Fee Structures
 - Equivalent Residential Unit – Look at samples of residential parcels within a geographic area, determine the average residential impervious area within the area, and use that average to set a residential unit. This system is less data intensive than tracking the impervious area of each residential parcel, and is less contested
 - Flat fee/dual fee – one fee, everyone pays the same (or for dual fee, residential and commercial each have a rate)
- iii. Additional coordination between permittees is needed to discuss details and preferences
- 4. **Group questions and discussion (15 mins)**
 - a. See table below
- 5. **Next meeting/Closing (5 mins)**
 - a. October 31, 2022 – Final Meeting
 - b. MSB will send invitation
 - c. Final meeting is a good opportunity for questions or discussion

Comment, Questions, and Responses

Agency Representative	Question/Comment	Answer
Organizational Options		
John Moosey, City of Palmer	Has anybody looked at what each entity is currently doing, and what additional work will be required? Is it significant change? What are the changes to how we currently operate, how much work is entailed?	<p>Janie Dusel (JD): I think this question is about what building blocks are in place and what needs to be created? Only about 20% of building blocks are in place, as an estimate.</p> <p>Rick Antonio (MSB): A lot of the work required will be on the permit side, there is a need for additional record keeping, we need to administer the permit, map it, and the work will occur spaced over five years.</p>

		<p>Additional meetings between Palmer, Wasilla and the Borough will be needed to discuss each entity's roles.</p> <p>Holly Spoth-Torres (Huddle AK): In previous meetings, the group discussed in detail the Six elements of Stormwater Management Program, including everything that is required from agencies, citizens, the private sector. Please review the meeting recordings and summaries.</p>
Renee Goentzel, DOT&PF	<p>DOT&PF has discussed a Stormwater Management Program in the Mat-Su internally and would prefer co-permittee situation, as a partnership with all entities, because DOT&PF is not set up to be a single permittee. For example, as a co-permittee with Anchorage, Anchorage does the bulk of permit administration and fulfillment each year, DOT&PF provides funds to Anchorage for our share of that work. DOT&PF has our own reporting each year that goes in the annual report.</p>	<p>JD: Thank you very much, that's helpful.</p>
Renee Goentzel, DOT&PF	<p>DOT&PF has had such a great relationship in Anchorage. Based on discussion with the four-way permit in Fairbanks, the one change I'd like to see if we have a four-way agreement in the Mat-Su Borough is to have a specific date in the agreement for when the annual report is due, months before it's due to DEC, to ensure all parties have time to review and provide feedback before the permit deadline. I would suggest including that as part of any agreements.</p>	<p>JD: Helpful input, thank you.</p>
John Moosey, City of Palmer	<p>My understanding is that the Mat-Su Borough does not have road powers? Will this be broken down between the City of Palmer, the City of Wasilla, and the RSAs?</p>	<p>Kim Sollien: I'm not sure how the RSAs will be involved as the maintenance arm for roads. I know a lot of the work for this permit will be administrative and technical in nature including plan reviews, mapping, public outreach, reporting, etc. In terms of stormwater management and maintenance on the roadways, we haven't fully had that discussion yet. We're still figuring out all the pieces.</p>
Alex Strawn, MSB Planning	<p>Permitting, mapping, and administrative tasks can be accomplished with MSB staff. RSA may have O&M responsibilities. We still need to figure out the logistics of how everything will work.</p>	

Rick Antonio, MSB Planning	In response to Mr. Moosey, MSB does have water pollution control powers. We also manage ROWs. It is true that the City of Palmer will have a big lift because although Palmer doesn't have a lot of lane miles of roadway, Palmer has a lot of stormwater infrastructure. MSB doesn't have as many stormwater structures, outfalls, and connections to creeks, so consequently there will have to be a significant effort from the cities, who have more built infrastructure.	JD: Great point.
Mike Campfield, MSB Public Works	<i>(In reference to comparing the MSB situation to the Fairbanks North Star Borough situation)</i> I want to point out that the Fairbanks North Star Borough is a second-class borough.	JD: That is true.
Staffing		
Kenneth Kleewein, MSB GIS	To successfully implement a stormwater program, we will also need to use staff that are not quantified in this table. For example, the MSB GIS department supports all departments. We should highlight the cost of all staff needs, and it will require many people across all departments to help and support. It will be a big effort to get both cities' information spatially oriented and update GIS.	Kristi Bischofberger, (MOA): In the beginning, we hired a GIS contractor to help get our mapping in place, but since then the Muni has GIS function within out IT group, and they keep the data up to date. Every department in the city who has implemented this permit into their workflows is going to be affected in some way, as guided by the manager of the permit. You can do it as a group or as individuals, but mapping is going to be one of the first big things you're taking on.
Anne Dollard, MSB GIS	We already keep track of sweeping and other O&M tasks. We're staged to integrate with that portion of the permit when needed. Our measurement criteria might change, but a tracking system is already built.	JD: That's great. Thank you for that comment.
Program Costs		
Holly Spoth-Torres, Huddle AK	Does the city of Fairbanks not track the detailed maintenance cost, because they're not required to?	JD: They do track the function, but they don't track the cost. In each of the annual reports, in the appendices, for example, the maintenance is tracked by loads, by tonnage, etc, but it's just not monetarily quantified. It's also worth noting that activities can be tailored to what's required for the permit. Entities negotiate those terms into their permit. It is up to you all to determine what's important for your permit.
Rene Goentzel, DOT&PF	We've looked at the FNSB permit and talked to the permittees, and there are lots of ways to meet the	JD: That makes a lot of sense.

	requirements of an MS4 permit. The Mat-Su should consider meeting permit requirements in a manner that is best for you, not just copying Fairbanks. We should consider meeting permit requirements in the most cost-effective manner using control measures that aren't labor intensive or time consuming. At some point we should sit down with DEC and with other potential co-permittees to talk about control measures. We would want to discuss together, as a group before writing the permit.	
Kim Sollien, MSB Planning	Operating a water quality testing program was labor intensive, so we won't want to do that. We would want to look at how other programs operate to see what might work for us and being efficient and cost effective in the projects we choose in each year of the permit.	
Rene Goentzel, DOT&PF	Adopt a stream and other programs have been problematic to meet the requirements of the permit. There are other ways to meet the requirements, so it would be great to set up a meeting down the road to look at what has worked for each entity and collaborate on what would work. We don't want DEC to just copy the Fairbanks.	
Funding		
John Moosey, City of Palmer	In the Mat-Su Borough, 80% of houses sit on 1 acre, with gravel drives, what are communities charging for houses on one acre? Is there differentiation with a city lot?	JD: If using the ERU approach, try to sample as many types of residential units as possible to get an average impervious lot coverage for your community. Sometimes incentives are offered to reduce the rate, but often times a community won't offer this option because although their property is less impactful, they likely use other commercial properties in their community like shopping centers.
Kenneth Kleewein, MSB GIS	It could be a lot of overhead to allow a process for individuals to reduce their stormwater fee. Having a differentiation between commercial and residential makes sense but allowing an incentive to get out of the fee seems problematic and would create a lot of overhead.	JD: That's one of the reasons why the ERU approach is used, meaning you don't have to delineate each residential property's impervious surface or keep tracking records.
Rene Goentzel, DOT&PF	What does the Municipality of Anchorage do regarding fees?	Kristi Bischofberger (MOA): Although we looked at doing a stormwater utility several times, we currently fund our stormwater program using general property taxes. Every taxpayer pays according to the value of their house, and we use

		this for operating funds to run the MS4 program.
John Moosey, City of Palmer	With potential utility charges for this and partnering together, are you aware of any instances where one partner charges one thing and another partner charges something different or not at all when it comes to utility fees?	JD: For those that's I'm aware of for multiple permittees, they establish a jurisdictional utility boundary and anyone inside that boundary pays the same. How entities split the funds generated from the fees can be managed.
Kim Sollien, MSB Planning	For the MSB, taxes are barely covering basic services, and we need more staff to provide the services we provide right now. Where would the extra money come from to implement a new program and comply with the permit if we do not generate additional funds somehow? I am curious about other funding mechanisms that might work here. I don't know how the MSB administration would feel about funding and I wanted this group to be thinking about how the funding would work, because the borough is already using all of its budget. I've been wondering what everyone would think about the fee or if we could implement it.	
Kristi Bischofberger, Municipality of Anchorage	Anchorage has looked creating a stormwater utility multiple times and it has not been popular with citizens. Commercial property owners like it, especially the development industry, because they want the cost spread to all citizens. In my experience, the community thinks of a stormwater utility as a tax, and the hurdle is trying to present it as something other than just another tax. In most entities, the stormwater program already exists, and a utility is brought in to fund it.	
Joshua James, DOT&PF	When you set up a SW utility what is the effect on federal funding to upgrade your stormwater systems? You become a revenue generating system and you may have limitations on federal funding when you do road project upgrades.	
Kim Sollien, MSB Planning	Over the past 5 meetings we've learned about the MS4 permit and its requirements. We should continue collaborating so that we can make the best decisions and recommendations to our respective leadership for how to structure the permit. I welcome everyone's thoughts and ideas so we're ready to have those conversations.	
Clint Adler, DOT&PF	It would be good to hear about integrating stormwater management and public water protection areas/zones. Lots of water wells in the area, and that's where people get their public water supply.	

Attachments:

Attendance list, meeting handouts, presentation

**MS4 and Stormwater Management in the Mat-Su Borough
Stakeholder Meeting #5 Attendance List**

Name, Organization/Agency	Role
Rick Antonio, MSB Planning	Project Management Team
Maija DiSalvo, MSB Planning	Project Management Team
Kim Sollien, MSB Planning	Project Management Team
Kristi Bischofberger, Municipality of Anchorage	Guest
Heidi Whipple, MSB GIS	Stakeholder Group Member
Kenneth Kleewein, MSB GIS	Stakeholder Group Member
Anne Dollard, MSB GIS	Stakeholder Group Member
John Moosey, City of Palmer, City Manager	Stakeholder Group Member
Mike Campfield, MSB Public Works	Stakeholder Group Member
Gerrit Verbeek, MSB Planning	Stakeholder Group Member
Adam Bradway, MSB Planning	Stakeholder Group Member
Taunnie Boothby, MSB Planning	Stakeholder Group Member
Kelsey Anderson, MSB Planning	Stakeholder Group Member
Peggy Horton, MSB Planning	Stakeholder Group Member
Alex Strawn, MSB Planning	Stakeholder Group Member
Shannon Bodolay, MSB Attorney	Stakeholder Group Member
Jamie Taylor, MSB Public Works	Stakeholder Group Member
John Linnell, DOT&PF	Stakeholder Group Member
Erik Norberg, DOT&PF	Stakeholder Group Member
Burrell Nickeson, DOT&PF	Stakeholder Group Member
Joshua James, DOT&PF	Stakeholder Group Member
Renee Goentzel, DOT&PF	Stakeholder Group Member
Ronald Searcy, DOT&PF	Stakeholder Group Member
Clint Adler, DOT&PF	Stakeholder Group Member
Bob Charles, Knik Tribe	Stakeholder Group Member
Sam Kito, ADEC	Stakeholder Group Member
Brad Sworts, MSB Public Works	Stakeholder Group Member
Brad Hanson, City of Palmer Community Development Director	Stakeholder Group Member
Cole Branham, MSB Public Works	Stakeholder Group Member
Michelle Olsen, MSB Planning	Stakeholder Group Member
James Rypkema, ADEC	Stakeholder Group Member
Janie Dusel, AWR Engineering	Consultant
Holly Spoth-Torres, Huddle AK	Consultant
Mandy Powers, Huddle AK	Consultant

**INTERGOVERNMENTAL AGREEMENT FOR ROLES & RESPONSIBILITIES UNDER
APDES MUNICIPAL STORM WATER PERMIT No. AKS-053406**

This Intergovernmental Agreement entered into the 28th day of December 2018 by and among the City of Fairbanks, City of North Pole, University of Alaska Fairbanks, and Alaska Department of Transportation & Public Facilities - Northern Region (collectively known as the “Co-permittees”), is hereby made for the for the purpose of complying with Alaska Pollutant Discharge Elimination System (APDES) Municipal Storm Water Permit No. AKS-053406.

WHEREAS, Congress amended Section 402 of the Clean Water Act in 1987 to require the U.S. Environmental Protection Agency (EPA) establish a program to address storm water discharges to waters of the U.S.;

WHEREAS, in response, the EPA promulgated the National Pollutant Discharge Elimination System (NPDES) Program requiring facilities, including municipal separate storm sewer systems (MS4s), apply for and obtain NPDES Permits to lawfully discharge storm water to waters of the U.S.;

WHEREAS, the Co-permittees were issued an NPDES Municipal Storm Water Permit on June 1, 2005, for discharges from the MS4 within the Fairbanks urbanized area;

WHEREAS, the Alaska Department of Environmental Conservation (ADEC) later acquired primacy from the EPA over regulation of storm water discharges in the state of Alaska, and subsequently promulgated the APDES Program;

WHEREAS, the ADEC assumed authority over the Co-permittees’ Municipal Storm Water Permit on October 31, 2009, pursuant to the APDES Program;

WHEREAS, the ADEC issued the Co-permittees a second and new Municipal Storm Water Permit with an effective date of July 1, 2018; and

WHEREAS, Section 1.5.3 of the Permit states the Co-permittees must maintain an Intergovernmental Agreement for the roles and responsibilities to meet the requirements of the Permit.

NOW, THEREFORE, let it be resolved that the Co-permittees agree as follows:

- A. Each Co-permittee is individually responsible for permit compliance related only to portions of the MS4 owned or operated solely by that Co-permittee, and where the Permit directs action or inaction by that Co-permittee, unless specifically stated otherwise.
- B. Each Co-permittee is jointly responsible for Permit compliance:

1. Related to portions of the MS4 where operations storm water management program implementation authority has been transferred from one Co-permittee to another in accordance with an enforceable agreement between Co-permittees;
 2. Related to portions of the MS4 where Co-permittees jointly own or operate a portion of the MS4; and
 3. Related to the submission of plans, reports, strategies, and assessments required by the Permit.
- C. For joint responsibilities, each Co-permittees' share of the cost and effort shall be related proportionally to the percentage of lane miles of roadway they own and operate within the Fairbanks Urbanized Area that discharge to waters of the U.S. Specific Permit responsibilities are outlined in Attachment A.
- D. Each Co-permittee shall assign at least one staff member to represent their agency for all activities related to Permit compliance.
- E. Each Co-permittee shall have the right to withdraw from and terminate its responsibilities under this Agreement at any time upon serving all other Co-permittees 30 days advance written notice.
- F. Any Co-permittee, as an individual or organization, shall not act, on behalf of the collective Co-permittees on permit related issues without advance written agreement.
- G. This Agreement shall be effective upon execution and shall terminate upon expiration of the Permit; or, if the Permit is administratively extended or renewed, the term of this Agreement shall extend automatically to conform to the new term of the Permit.
- H. This Agreement may also be modified as necessary by written amendments signed by each Co-permittee.

IN WITNESS WHEREOF, the Co-permittees have executed this Agreement, effective as of the date set forth in the opening paragraph.

APPROVED



Jim Matherly, Mayor
City of Fairbanks

10 Jan 19
Date

IN WITNESS WHEREOF, the Co-permittees have executed this Agreement, effective as of the date set forth in the opening paragraph.

APPROVED

A handwritten signature in cursive script that reads "Michael Welch".

Michael Welch, Mayor
City of North Pole

A handwritten date in cursive script that reads "December 19, 2018".

Date

IN WITNESS WHEREOF, the Co-permittees have executed this Agreement, effective as of the date set forth in the opening paragraph.

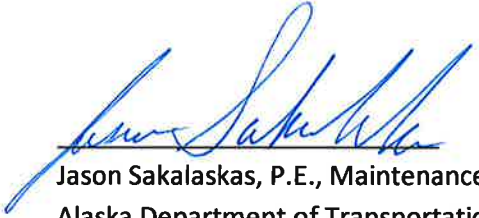
APPROVED

Kari Burrell
Kari Burrell, Vice Chancellor for Administrative Services
University of Alaska Fairbanks

Dec 20, 2018
Date

IN WITNESS WHEREOF, the Co-permittees have executed this Agreement, effective as of the date set forth in the opening paragraph.

APPROVED



Jason Sakalaskas, P.E., Maintenance and Operations Chief
Alaska Department of Transportation & Public Facilities - Northern Region

12/19/18
Date

**INTERGOVERNMENTAL AGREEMENT FOR ROLES & RESPONSIBILITIES UNDER
APDES MUNICIPAL STORM WATER PERMIT No. AKS-053406**

ATTACHMENT A

For joint responsibilities, each Co-permittees' share of the cost and effort shall be related proportionally to the percentage of lane miles of roadway they own and operate within the Fairbanks Urbanized Area that discharge to waters of the U.S, as follows:

1. 49% (300 miles)	City of Fairbanks
2. 1.5% (10 miles)	City of North Pole
3. 2.5% (14 miles)	University of Alaska Fairbanks
4. 47% (288 miles)	Alaska Department of Transportation & Public Facilities

Specific Permit requirements and their associated tasks are hereby assigned individually and cooperatively below based on historic implementation of these responsibilities. All Permit responsibilities not specifically charged below will default to Table 1 of the Permit.

1. Organization of monthly FSWAC meetings amongst the Co-permittees and preparation and distribution of meeting minutes- City of Fairbanks
2. Preparation and submittal of the Annual Reports to ADEC- City of Fairbanks
 - a. Each Co-Permittee is responsible for submittal of their required documents for Annual Report to City of Fairbanks and for review of draft Annual Report.
3. Issuance of annual Adopt-A-Stream Program payment to Tanana Valley Watershed Association –City of Fairbanks
4. Coordination with FSWCD on their Green Infrastructure booth at Northern Living Home Show- City of Fairbanks
5. Coordination with ADEC, CONP, and FNSB on hosting a biennial Workshop in April for local developers, engineers, and contractors on the local Storm Water Plan Review & Inspection Requirements-City of Fairbanks; All Co-Permittees participate.
6. Annual employee training on MS4 Operations and Illicit Discharge Detection & Elimination- All Co-Permittees
7. Participation in Fort Wainwright Earth Day Fair-City of Fairbanks
8. Issuance of a Public Service Announcement to local radio stations-City of Fairbanks, with FSWAC input
9. Preparation, publication and distribution of outreach materials- All Co-Permittees, with FSWAC input
10. Annual Stream Cleanup Day- Cities of Fairbanks and North Pole with University of Alaska-Fairbanks and Alaska Dept. of Transportation (ADOT&PF) assistance
 - a. Inventory and order Stream Cleanup Day event supplies- City of Fairbanks & UAF
 - b. Coordinate ordering of Stream Cleanup Day T-Shirts with FNSB-City of Fairbanks
 - c. Canoe rental and delivery for Stream Cleanup Day- ADOT&PF

- d. Newspaper ads- ADOT&PF
- 11. Spring and fall outfall sampling-ADOT&PF
- 12. Dry weather screening of outfalls-City of Fairbanks
- 13. Noyes Slough oil sheen inspection-UAF
- 14. Public education: school presentations- ADOT&PF and City of Fairbanks
 - a. Email invitation to all elementary and middle school principals- City of Fairbanks
- 15. Storm drain stenciling-All Co-Permittees
- 16. Update comprehensive storm drain map- ADOT&PF

INTERGOVERNMENTAL AGREEMENT FOR RESPONSIBILITY FOR WATER QUALITY MANAGEMENT WITHIN THE MUNICIPALITY OF ANCHORAGE

This Agreement, effective August 1, 2020, is made between the State of Alaska, Department of Transportation and Public Facilities (hereinafter called the State) and the Municipality of Anchorage (hereinafter called the Municipality). The State and the Municipality are entering into this Agreement pursuant to Article III § 3.01 of the Municipality of Anchorage Home Rule Charter and Article X § 13 of the Alaska Constitution. Whereas Article III § 3.01 of the Municipality of Anchorage Home Rule Charter and Article X § 13 of the Alaska constitution authorize intergovernmental agreements and whereas the State and the Municipality were co-applicants to the United States Environmental Protection Agency (hereinafter called the EPA) for a NPDES Municipal Storm Water Discharge Permit (hereinafter called the Permit), and whereas the EPA has since transferred authority for the Permit to the State of Alaska Department of Environmental Conservation (hereinafter called the ADEC) the State and the Municipality intend to coordinate their efforts in compliance with the conditions of the Permit (see attached table for division of responsibilities), and whereas the State and the Municipality intend that this Agreement set forth their efforts in compliance with the conditions of the Permit, the parties agree as follows:

1. Annual payments by the State to the Municipality under this Agreement are subject to appropriation by the Alaska State Legislature.
2. The State and Municipality shall continue to design, construct, operate and maintain their respective storm water facilities.
3. The State and Municipality shall comply with Permit conditions for design, construction, maintenance, and operation of their respective separate storm sewer system facilities.
4. Construction plans developed by the State shall continue to be reviewed by the Alaska Department of Environmental Conservation.
5. The State and the Municipality shall continue to be responsible for observing the conditions and limitations of the Permit and for the general storm water management (not including design, construction, maintenance, and operation) and

monitoring programs required by the Permit for their respective separate storm sewer system facilities.

6. The State will furnish information and records including electronic files to the Municipality that are necessary to provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities and for preparation of the annual report to ADEC.
7. The Municipality will furnish information and records including electronic files to the State that were used to provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities and to prepare the annual report to ADEC.
8. The State shall pay the Municipality under the Agreement to provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities, and the Municipality shall provide said services. The Municipality shall also prepare and submit the annual report to the ADEC. The State shall pay the Municipality annually the amount of \$350,000 per year, with the State payment for the 2020 permit year due upon execution and subsequent annual payments due by October 1st of each succeeding year.
9. If the State fails to pay the Municipality as required under this Agreement, the State shall provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities and prepare the annual report to ADEC for said system.
10. The Municipality shall ensure that none of the funds paid under this Agreement will be used for the purpose of lobbying activities before the Alaska State Legislature.
11. Term. The term of this intergovernmental agreement shall be for a period of five (5) years. The State and the Municipality shall review this agreement each year. This intergovernmental agreement may be renewed for a maximum of five (5) additional one (1) year periods upon mutual consent of the parties. Either party may unilaterally terminate this agreement upon 180 days written notice to the other party.

12. Amendments. This intergovernmental agreement may only be amended, modified or changed in writing executed by authorized representatives of the parties, with the same formality as this agreement was executed and such writing shall be attached to this agreement. Any attempt to amend, modify, or change this agreement by either an unauthorized representative or unauthorized means shall be void.

In witness whereof, the parties hereto have executed this agreement.

Approved by:

Anna C Henderson

Anna C. Henderson
Municipal Manager
Municipality of Anchorage

Approved by:

Wolfgang Jung, P.E.
Central Region Director
Alaska Department of Transportation
and Public Facilities

Term IV - Division of Responsibilities
APDES Permit No. AKS-052558 Storm Water Management Program

Task	Permit Section	MOA	ADOT&PF	MOA*
General Requirements				
Submit updated interjurisdictional agreement	1.3.3			X
Submit Program Coordination Plan	1.3.4			X
Develop one watershed plan and propose one watershed plan	2.7			X
Develop the SWMP activities and Document how they are implemented to control the discharge of pollutant(s) of concern	2.1.3/2.5	X	X	X
Report on total costs associated with SWMP implementation over the prior 12 month in each Annual Report.	2.8	X	X	X
Construction Site Runoff Control Program				
Update ordinance or other regulatory mechanisms	3.1.1	X	X	
Update and require the use of the manual by construction site operators within their jurisdiction	3.1.2	X	X	
Review and approve preconstruction site plans from construction site operators within their jurisdiction.	3.1.3	X	X	
Inspect construction sites	3.1.4	X	X	
Update and implement an enforcement response plan for their organization	3.1.5	X	X	
Provide construction education for staff and operators	3.1.6	X	X	
New Development and Re-development				
Adopt/implement an ordinance, or other enforceable regulatory requirements	3.2.1	X	X	
Update and distribute a Storm Water Design Criteria Manual specifying permanent storm water management and control practices	3.2.2	X	X	
Update a green infrastructure/low impact development strategy	3.2.3	X	X	
Implement strategy; begin LID projects	3.2.3.1	X	X	
Perform, monitor and evaluate GI/LID projects; report results	3.2.3.2	X	X	X
Revise Design Criteria Manuals based on evaluation	3.2.3.2.4	X	X	X
Review and approve plans for consistency with the ordinance/regulatory mechanism and Storm Water Design Criteria Manual (or equivalent)	3.2.4	X	X	
Inventory for track permanent storm water controls for new and existing controls.	3.2.5.1	X	X	
Require O&M agreements for private projects	3.2.5.2		X	
Ensure proper long term operation and maintenance of all permanent storm water management practices within the permit area through inspection and enforcement	3.2.6	X	X	
Provide training regarding the selection, design, installation, operation and maintenance of permanent storm water controls.	3.2.7	X	X	
Industrial and Commercial Storm Water Discharge Management				
Inventory and map commercial and industrial facilities determined to contribute substantial pollutant load to the MS4s. Update annually.	3.3.1/3.3.2			X
Identify one specific activity within their respective jurisdictions where storm water discharges are not adequately addressed, and develop performance standards.	3.3.1.3			X
Evaluate performance standards developed in Term II and III	2.3.2/3.2.2/3.3.3			X
Inventory and map locations of all snow disposal sites that discharge directly to the MS4 or to receiving waters; revise annually,	3.3.2			X
Evaluate whether regulation to protect water quality is adequate on private snow disposal sites and submit evaluation report	3.3.2			X

*Performed by MOA with financial contribution from ADOT&PF; however, some ADOT staff participation and knowledge may be required.

Revise applicable requirements in accordance with recommendations contained in the snow disposal evaluation report.	3.2.3			X
Inventory and map all animal facilities that discharge storm water directly to the MS4 or to receiving waters.	3.3.1.2			X
Evaluate programs to regulate animal facilities and submit evaluation report	3.3.3			X
Storm Water Infrastructure and Street Maintenance				
Update Storm Sewer System Inventory and Map	3.4.1	X	X	X
Develop Tracking Database for MS4 function	3.4.1	X	X	
Submit Rate of Fill Schedules	3.4.2.3	X	X	
Continue program to inspect/clean all catch basins and inlets owned or operated by the permittees and take appropriate maintenance action based on those inspections based on rate-of-fill schedules. Report results	3.4.2.1	X	X	
Develop and implement treatment and disposal facility of catch basin and OGS waste facility	3.4.2.2	X	X	
Update and continue to practice the Street Maintenance Standard Operating Procedures for Storm water Control ("SOPs")	3.4.3	X	X	
Maintain inventory of street /road maintenance materials, document the inventory in the corresponding Annual Reports	3.4.3.2	X	X	
Update the Anchorage Street Sweepings Management Plan	3.4.4	X	X	
Identify and map areas by sweeping frequency	3.4.4.1	X	X	
Perform ongoing sweeping operations according to schedule and Plan	3.4.4.2	X	X	
Where sweeping is infeasible create other control procedures	3.4.4.3	X	X	
Provide annual assessments of street sweeping effectiveness	3.4.4.4	X	X	
Continue practices to reduce pollutants to the MS4 associated with the application, storage and disposal of pesticides, herbicides and fertilizers from municipal areas and activities.	3.4.5	X	X	
Continue to develop and implement SWPPPs for all permittee-owned material storage facilities, maintenance yards, and snow disposal sites	3.4.6	X	X	
Provide regular training to appropriate permittee staff on all O&M procedures and SOPs activities	3.4.7	X	X	
Illicit Discharge Management				
Effectively prohibit non-storm water discharges to the MS4 through enforcement of relevant ordinances or other regulatory mechanisms.	3.5.1	X	X	
Respond to reports of illicit discharge from the public	3.5.2			X
Develop a map of reported/documented illicit discharges or connections to identify priority areas.	3.5.3			X
Implement a dry weather analytical and field screening monitoring program	3.5.4			X
Investigate illicit discharge identified by complaint or dry weather inspections within fifteen (15) days; take action to eliminate sources	3.5.5			X
Prevent and respond to spills to the MS4.	3.5.6	X	X	
Coordinate spill prevention, containment and response activities throughout all departments/ programs/agencies to ensure maximum water quality protection at all times.	3.5.6	X	X	
Facilitate disposal of used oil and toxic materials	3.5.7			X
Train all staff	3.5.8	X	X	
Education				
Conduct an education and outreach program that uses a variety of methods to target audiences on specified topics	3.6.1			X
Provide targeted education and training regarding construction, permanent storm water management, infrastructure & street management/maintenance and illicit discharge management	3.6.2	X	X	X

*Performed by MOA with financial contribution from ADOT&PF; however, some ADOT staff participation and knowledge may be required.

Convene an annual meeting to coordinate implementation of SWMP among permittee offices/departments, other state/federal agencies, cooperative groups and the public.	3.6.3			X
Organize semi-annual meetings to coordinate SWMP implementation activities Meetings to be held in March and October of each year	3.6.4			X
Maintain and promote a publicly-accessible website	3.6.5	X	X	X
<i>Monitoring and Reporting Requirements</i>				
Self-evaluate compliance with permit conditions; document in Annual Report	4.1.1	X	X	X
Develop & submit a monitoring and evaluation plan	4.1.2			X
Develop & submit a QAP. Maintain up to date.	4.1.5			X
Conduct pesticide screening in Lake Otis, Hideaway Lake and Little Campbell Lake	4.1.6			X
Conduct storm water outfall monitoring	4.1.7			X
Evaluate monitoring results wrt TMDLs and other trends	4.1.8			X
Evaluate effectiveness of selected BMPs and progress toward goals	4.3			X
Submit storm water discharge monitoring report	4.2.1			X
Submit Annual Report	4.2	X	X	X

INTERGOVERNMENTAL AGREEMENT FOR RESPONSIBILITY FOR WATER
QUALITY MANAGEMENT WITHIN THE MUNICIPALITY OF ANCHORAGE

This Agreement, effective August 1, 2020, is made between the State of Alaska, Department of Transportation and Public Facilities (hereinafter called the State) and the Municipality of Anchorage (hereinafter called the Municipality). The State and the Municipality are entering into this Agreement pursuant to Article III § 3.01 of the Municipality of Anchorage Home Rule Charter and Article X § 13 of the Alaska Constitution. Whereas Article III § 3.01 of the Municipality of Anchorage Home Rule Charter and Article X § 13 of the Alaska constitution authorize intergovernmental agreements and whereas the State and the Municipality were co-applicants to the United States Environmental Protection Agency (hereinafter called the EPA) for a NPDES Municipal Storm Water Discharge Permit (hereinafter called the Permit), and whereas the EPA has since transferred authority for the Permit to the State of Alaska Department of Environmental Conservation (hereinafter called the ADEC) the State and the Municipality intend to coordinate their efforts in compliance with the conditions of the Permit (see attached table for division of responsibilities), and whereas the State and the Municipality intend that this Agreement set forth their efforts in compliance with the conditions of the Permit, the parties agree as follows:

1. Annual payments by the State to the Municipality under this Agreement are subject to appropriation by the Alaska State Legislature.
2. The State and Municipality shall continue to design, construct, operate and maintain their respective storm water facilities.
3. The State and Municipality shall comply with Permit conditions for design, construction, maintenance, and operation of their respective separate storm sewer system facilities.
4. Construction plans developed by the State shall continue to be reviewed by the Alaska Department of Environmental Conservation.
5. The State and the Municipality shall continue to be responsible for observing the conditions and limitations of the Permit and for the general storm water management (not including design, construction, maintenance, and operation) and

monitoring programs required by the Permit for their respective separate storm sewer system facilities.

6. The State will furnish information and records including electronic files to the Municipality that are necessary to provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities and for preparation of the annual report to ADEC.
7. The Municipality will furnish information and records including electronic files to the State that were used to provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities and to prepare the annual report to ADEC.
8. The State shall pay the Municipality under the Agreement to provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities, and the Municipality shall provide said services. The Municipality shall also prepare and submit the annual report to the ADEC. The State shall pay the Municipality annually the amount of \$350,000 per year, with the State payment for the 2020 permit year due upon execution and subsequent annual payments due by October 1st of each succeeding year.
9. If the State fails to pay the Municipality as required under this Agreement, the State shall provide the general storm water management and monitoring programs required under the Permit for the State separate storm sewer system facilities and prepare the annual report to ADEC for said system.
10. The Municipality shall ensure that none of the funds paid under this Agreement will be used for the purpose of lobbying activities before the Alaska State Legislature.
11. Term. The term of this intergovernmental agreement shall be for a period of five (5) years from the date of execution. The State and the Municipality shall review this agreement each year. This intergovernmental agreement may be renewed for a maximum of five (5) additional one (1) year periods upon mutual consent of the parties. Either party may unilaterally terminate this agreement upon 180 days written notice to the other party.

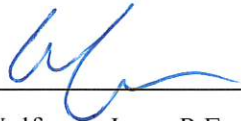
12. Amendments. This intergovernmental agreement may only be amended, modified or changed in writing executed by authorized representatives of the parties, with the same formality as this agreement was executed and such writing shall be attached to this agreement. Any attempt to amend, modify, or change this agreement by either an unauthorized representative or unauthorized means shall be void.

In witness whereof, the parties hereto have executed this agreement.

Approved by:

Anna C. Henderson
Municipal Manager
Municipality of Anchorage

Approved by:



Wolfgang Jung, P.E.
Central Region Director
Alaska Department of Transportation
and Public Facilities

Term IV - Division of Responsibilities
APDES Permit No. AKS-052558 Storm Water Management Program

Task	Permit Section	MOA	ADOT&PF	MOA*
General Requirements				
Submit updated interjurisdictional agreement	1.3.3			X
Submit Program Coordination Plan	1.3.4			X
Develop one watershed plan and propose one watershed plan	2.7			X
Develop the SWMP activities and Document how they are implemented to control the discharge of pollutant(s) of concern	2.1.3/2.5	X	X	X
Report on total costs associated with SWMP implementation over the prior 12 month in each Annual Report.	2.8	X	X	X
Construction Site Runoff Control Program				
Update ordinance or other regulatory mechanisms	3.1.1	X	X	
Update and require the use of the manual by construction site operators within their jurisdiction	3.1.2	X	X	
Review and approve preconstruction site plans from construction site operators within their jurisdiction.	3.1.3	X	X	
Inspect construction sites	3.1.4	X	X	
Update and implement an enforcement response plan for their organization	3.1.5	X	X	
Provide construction education for staff and operators	3.1.6	X	X	
New Development and Re-development				
Adopt/implement an ordinance, or other enforceable regulatory requirements	3.2.1	X	X	
Update and distribute a Storm Water Design Criteria Manual specifying permanent storm water management and control practices	3.2.2	X	X	
Update a green infrastructure/low impact development strategy	3.2.3	X	X	
Implement strategy; begin LID projects	3.2.3.1	X	X	
Perform, monitor and evaluate GI/LID projects; report results	3.2.3.2	X	X	X
Revise Design Criteria Manuals based on evaluation	3.2.3.2.4	X	X	X
Review and approve plans for consistency with the ordinance/regulatory mechanism and Storm Water Design Criteria Manual (or equivalent)	3.2.4	X	X	
Inventory for track permanent storm water controls for new and existing controls.	3.2.5.1	X	X	
Require O&M agreements for private projects	3.2.5.2		X	
Ensure proper long term operation and maintenance of all permanent storm water management practices within the permit area through inspection and enforcement	3.2.6	X	X	
Provide training regarding the selection, design, installation, operation and maintenance of permanent storm water controls.	3.2.7	X	X	
Industrial and Commercial Storm Water Discharge Management				
Inventory and map commercial and industrial facilities determined to contribute substantial pollutant load to the MS4s. Update annually.	3.3.1/3.3.2			X
Identify one specific activity within their respective jurisdictions where storm water discharges are not adequately addressed, and develop performance standards.	3.3.1.3			X
Evaluate performance standards developed in Term II and III	2.3.2/3.2.2/3.3.3			X
Inventory and map locations of all snow disposal sites that discharge directly to the MS4 or to receiving waters; revise annually,	3.3.2			X
Evaluate whether regulation to protect water quality is adequate on private snow disposal sites and submit evaluation report	3.3.2			X

*Performed by MOA with financial contribution from ADOT&PF; however, some ADOT staff participation and knowledge may be required.

Revise applicable requirements in accordance with recommendations contained in the snow disposal evaluation report.	3.2.3			X
Inventory and map all animal facilities that discharge storm water directly to the MS4 or to receiving waters.	3.3.1.2			X
Evaluate programs to regulate animal facilities and submit evaluation report	3.3.3			X
Storm Water Infrastructure and Street Maintenance				
Update Storm Sewer System Inventory and Map	3.4.1	X	X	X
Develop Tracking Database for MS4 function	3.4.1	X	X	
Submit Rate of Fill Schedules	3.4.2.3	X	X	
Continue program to inspect/clean all catch basins and inlets owned or operated by the permittees and take appropriate maintenance action based on those inspections based on rate-of-fill schedules. Report results	3.4.2.1	X	X	
Develop and implement treatment and disposal facility of catch basin and OGS waste facility	3.4.2.2	X	X	
Update and continue to practice the Street Maintenance Standard Operating Procedures for Storm water Control ("SOPs")	3.4.3	X	X	
Maintain inventory of street /road maintenance materials, document the inventory in the corresponding Annual Reports	3.4.3.2	X	X	
Update the Anchorage Street Sweepings Management Plan	3.4.4	X	X	
Identify and map areas by sweeping frequency	3.4.4.1	X	X	
Perform ongoing sweeping operations according to schedule and Plan	3.4.4.2	X	X	
Where sweeping is infeasible create other control procedures	3.4.4.3	X	X	
Provide annual assessments of street sweeping effectiveness	3.4.4.4	X	X	
Continue practices to reduce pollutants to the MS4 associated with the application, storage and disposal of pesticides, herbicides and fertilizers from municipal areas and activities.	3.4.5	X	X	
Continue to develop and implement SWPPPs for all permittee-owned material storage facilities, maintenance yards, and snow disposal sites	3.4.6	X	X	
Provide regular training to appropriate permittee staff on all O&M procedures and SOPs activities	3.4.7	X	X	
Illicit Discharge Management				
Effectively prohibit non-storm water discharges to the MS4 through enforcement of relevant ordinances or other regulatory mechanisms.	3.5.1	X	X	
Respond to reports of illicit discharge from the public	3.5.2			X
Develop a map of reported/documented illicit discharges or connections to identify priority areas.	3.5.3			X
Implement a dry weather analytical and field screening monitoring program	3.5.4			X
Investigate illicit discharge identified by complaint or dry weather inspections within fifteen (15) days; take action to eliminate sources	3.5.5			X
Prevent and respond to spills to the MS4.	3.5.6	X	X	
Coordinate spill prevention, containment and response activities throughout all departments/ programs/agencies to ensure maximum water quality protection at all times.	3.5.6	X	X	
Facilitate disposal of used oil and toxic materials	3.5.7			X
Train all staff	3.5.8	X	X	
Education				
Conduct an education and outreach program that uses a variety of methods to target audiences on specified topics	3.6.1			X
Provide targeted education and training regarding construction, permanent storm water management, infrastructure & street management/maintenance and illicit discharge management	3.6.2	X	X	X

*Performed by MOA with financial contribution from ADOT&PF; however, some ADOT staff participation and knowledge may be required.

Convene an annual meeting to coordinate implementation of SWMP among permittee offices/departments, other state/federal agencies, cooperative groups and the public.	3.6.3			X
Organize semi-annual meetings to coordinate SWMP implementation activities Meetings to be held in March and October of each year	3.6.4			X
Maintain and promote a publicly-accessible website	3.6.5	X	X	X
Monitoring and Reporting Requirements				
Self-evaluate compliance with permit conditions; document in Annual Report	4.1.1	X	X	X
Develop & submit a monitoring and evaluation plan	4.1.2			X
Develop & submit a QAP. Maintain up to date.	4.1.5			X
Conduct pesticide screening in Lake Otis, Hideaway Lake and Little Campbell Lake	4.1.6			X
Conduct storm water outfall monitoring	4.1.7			X
Evaluate monitoring results wrt TMDLs and other trends	4.1.8			X
Evaluate effectiveness of selected BMPs and progress toward goals	4.3			X
Submit storm water discharge monitoring report	4.2.1			X
Submit Annual Report	4.2	X	X	X

*Performed by MOA with financial contribution from ADOT&PF; however, some ADOT staff participation and knowledge may be required.



Fees are paid as part of permit applications.

City of Fairbanks – Storm Water Fee Schedule

Description	Fee	Area of Ground Disturbance
PSWCP Plan Review	\$350	1 acre or greater
ESCP Plan Review	\$175	10,000 sq. ft. to 1 acre
SWPPP Plan Review	\$350	1 - 5 acres
SWPPP Plan Review	\$480	5 - 10 acres
SWPPP Site Inspection	\$175	1 acre or greater
Cooling Water Discharge to MS4	\$500	Annual Fee

City of North Pole – Storm Water Fee Schedule

Description	Fee	Area of Ground Disturbance
PSWCP Plan Review	\$300	1 acre or greater
SWPPP Plan Review	\$480	1 acre or greater
SWPPP Site Inspection	\$240	1 to 5 acres
SWPPP Site Inspection	\$480	5 to 10 acres
SWPPP Site Inspection	\$720	10 to 20 acres
SWPPP Site Inspection	Actual Cost	Over 20 acres

MS₄ & STORMWATER MANAGEMENT IN THE MAT-SU BOROUGH

Stakeholder Meeting #5 – Management Details

Hosted by: The Mat-Su Borough Planning Department

With Assistance From: AWR Engineering, LLC

October 3, 2022

Welcome and Introductions

- **MSB Project Management Team**

- Kim Sollien, Planning Services Manager
- Rick Antonio, Stormwater Program Coordinator
- Maija DiSalvo, Planning Administrator

- **Consultant Team**

- Janie Dusel, PE, MS₄ Specialist | AWR Engineering
- Holly Spoth-Torres, PLA, Public Engagement Specialist | Huddle AK

- **Stakeholder Introductions**

Quick Review of Project Background & Purpose

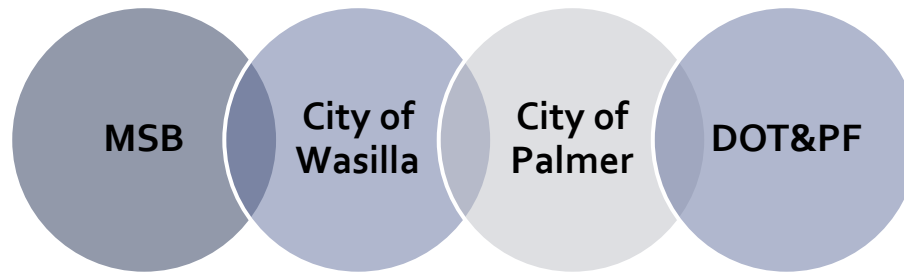
- “Urbanized Area” Classification is expected for the Core Area (Palmer & Wasilla) following the results of the 2020 Census
 - Based on pollution density
 - US Census Bureau will determine the extents of the Urbanized Area
- Urbanized Area triggers the need for a Municipal Separate Storm Sewer System (MS₄) Permit
- Issued by the Alaska Department of Environmental Conservation (ADEC).
- ADEC Approval needed to discharge stormwater water into “Waters of the US”
- Will apply to operators of stormwater collection systems (MS₄s) throughout the Urbanized Area.



Quick Review of Project Background & Purpose

- **Responsible Parties:**

- Any entity that operates an MS₄ system inside the Urbanized Area
- Expected to include:



- **Purpose and Need**

- Learn about the MS₄ process and permit requirements
- Prepare for the upcoming MS₄ permit

- **Role of this Stakeholder Group**

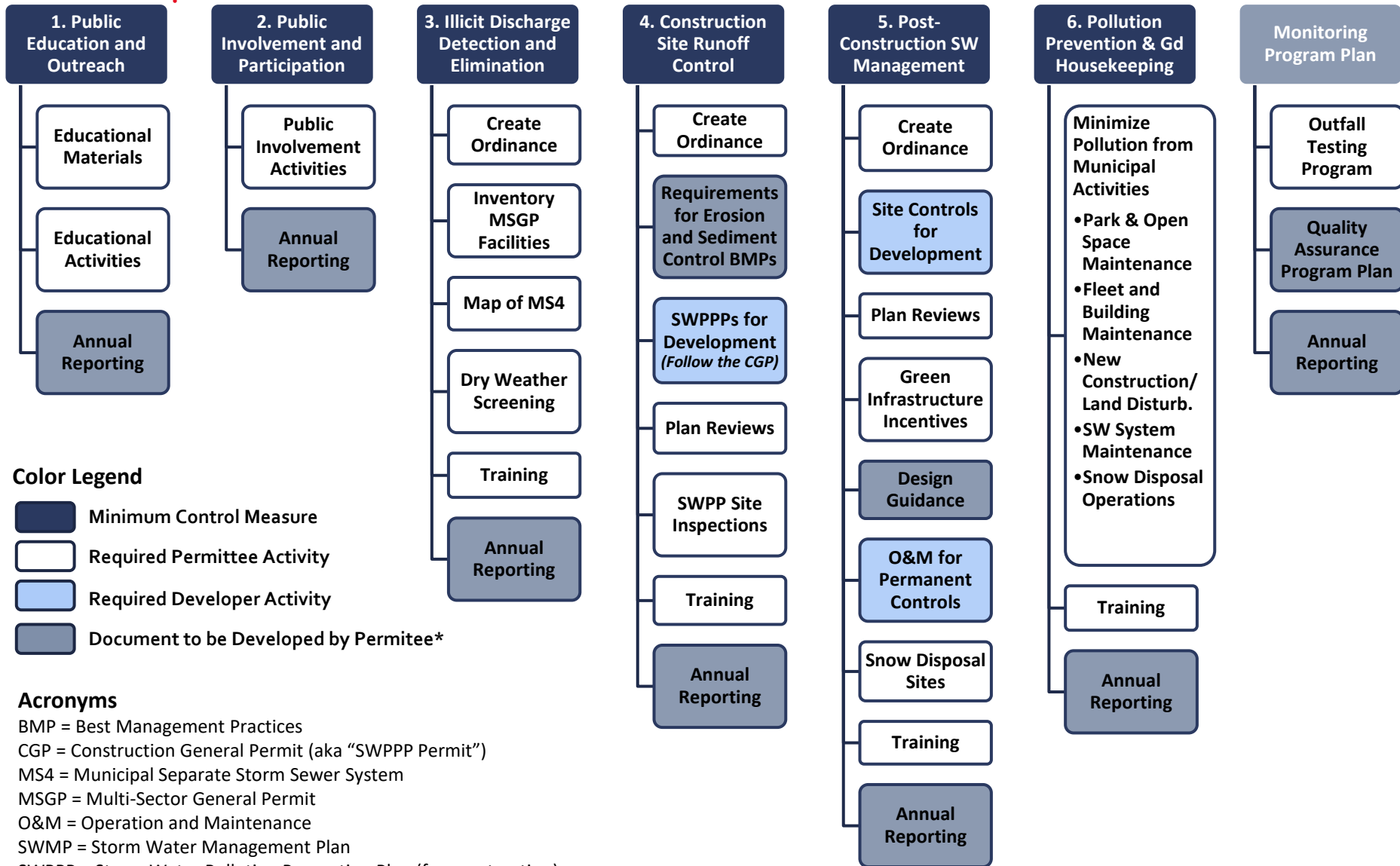
- Provide input for how impacted agencies want to work together to structure the permit

Updated Stakeholder Meetings Plan

Meeting #	Date	Topic
1	May 31	Introduction to the Project
2	June 27	Permit Breakdown, Part 1 <ul style="list-style-type: none">✓ Applicability✓ SWMP Requirements✓ Minimum Control Measures 1, 2, and 3
3	July 25	Permit Breakdown, Part 2 <ul style="list-style-type: none">✓ Minimum Control Measures 4, 5, and 6✓ Monitoring, Evaluation, Reporting, and Record Keeping
4	August 29	Existing Building Blocks <ul style="list-style-type: none">✓ Current resources, data, plans, etc.✓ Required ordinances✓ Data gaps and how to fill them
5	Today	Management Details <ul style="list-style-type: none">✓ Intergovernmental agreement types/structures✓ Program costs and staffing✓ Funding source options
6	Oct 31	Wrap Up <ul style="list-style-type: none">✓ Summarize, review, and debrief✓ Discuss permittee thoughts/preferences

Summary of Primary MS4 Permit Components

Storm Water Management Program (SWMP) Document



Color Legend

- Minimum Control Measure
- Required Permittee Activity
- Required Developer Activity
- Document to be Developed by Permittee*

Acronyms

- BMP = Best Management Practices
- CGP = Construction General Permit (aka "SWPPP Permit")
- MS4 = Municipal Separate Storm Sewer System
- MSGP = Multi-Sector General Permit
- O&M = Operation and Maintenance
- SWMP = Storm Water Management Plan
- SWPPP = Storm Water Pollution Prevention Plan (for construction)

* Some documents can be adopted from existing resources

Technical Discussion – Management Details

- **Organizational Options**
 - Joint Approach: Co-permittees
 - Individual Approach: Single Permittee

Location	Permittees	Permit Structure	Program Phase
Anchorage	1) Municipality of Anchorage 2) DOT&PF	Co-permittees	Phase I
Anchorage	Port of Alaska	Single permittee	Phase I
Anchorage	Joint Base Elmendorf-Richardson	Single permittee	Phase II
Fairbanks	Fairbanks North Star Borough	Single permittee	Phase II
Fairbanks	1) City of Fairbanks 2) City of North Pole 3) University of Alaska Fairbanks 4) DOT&PF	Co-permittees	Phase II
Fairbanks	Fort Wainwright	Single permittee	Phase II

Technical Discussion – Management Details

• Organizational Options

- Joint Approach: Co-permittees
- Individual Approach: Single Permittee

Approach	Advantages	Potential Disadvantages
Joint	<ul style="list-style-type: none">• Streamlined programs and no duplication of efforts• Shared costs• Consistency across jurisdictional boundaries (less confusing for the public)• Ease of operation and management where stormwater flows across jurisdictional boundaries	<ul style="list-style-type: none">• Requires one entity to take the lead• Requires a good working relationship across the co-permittees with open information sharing and cooperation.
Individual	<ul style="list-style-type: none">• Coordination across separate entities is minimized• No legal cooperation needed	<ul style="list-style-type: none">• Potential duplication of efforts• No cost sharing• Potentially confusing to have differing program in a small geographic area• Unclear responsibilities where stormwater flows across separately owned MS₄s.• DOT&PF involvement with 3 permits

Technical Discussion – Management Details

- **Other Considerations**

- Legal authority to manage drainage, charge fees, levy fines, etc.

Technical Discussion – Management Details

- **Joint Approach – Intergovernmental Agreements**
 - Formal agreements that outline the responsibilities of each permittee.
 - Required for joint permits
 - Two Examples:
 - Fairbanks co-permittees
 - Anchorage/DOT&PF

Technical Discussion – Management Details

- Program Staffing

- Program Management Staff

- Program set up and management, site inspection, MS₄ mapping, plan reviews, water quality monitoring, QAPP, ADEC reporting, documentation, etc.

- Operations and Maintenance Staff

- Street sweeping, snow removal/disposal, sanding, structure cleaning, etc.
 - Staffing not quantified – More staffing may be needed to assist with tracking and increased activities

Entity	# of Staff Primarily for MS ₄ Permit	Other Staff Support or contractors?	Maintenance and Operation Staff
Municipality of Anchorage	4 2 Construction and 2 non-construction	Yes Select plan reviewers, QAPP, Public Education	Not Quantified. Workload increase expected.
DOT&PF Central Region	1 (Shared w/ other responsibilities)	Yes	
City of Fairbanks	1 (Shared w/ other responsibilities)	Yes	
DOT&PF Northern Region	1 (Shared w/ other responsibilities)	Yes	

Technical Discussion – Management Details

- Program Costs (Phase 1 Permit)

Municipality of Anchorage/DOT&PF Annual MS₄ Program Costs (2020)

Entity/Type	Annual Expenditure
MOA Management	\$1.0 Million
MOA Maintenance	\$ 2.5 Million
DOT&PF Management	\$350,000 pd to MOA + DOT Staff Support (unknown)
DOT&PF Maintenance	\$ 2.9 Million
Total	\$ 6.8 Million

- See attached cost breakdown
- Important to consider what types of services are included as “MS₄” Costs.
 - Some costs are roadway maintenance items that would be done to some extent with or without a permit
 - Street sweeping
 - Road sanding
 - Storm drain structure cleaning
 - Some support costs are not captured, e.g. some types of Plan Reviewers

Technical Discussion – Management Details

- Annual Program Costs

City of Fairbanks

Description	Approximate Cost
Staff (one)	\$80,00 to \$100,000
Expenses <ul style="list-style-type: none">▪ Administration▪ Permit fee▪ Tanana Valley▪ WQ Testing	\$50,000
Maintenance & Operations	Not Quantified
Total Cost	Unknown

- See attached cost sharing example
- See attached M&O Summaries – this work is not quantified in the costs.

Technical Discussion – Management Details

- **Funding Sources**

- **Local (Cities and Municipalities)**

- General funds

- Development-related Permit Fees (See attached Fairbanks Schedule)

- **State general fund (DOT&PF)**

- **Funding Opportunities**

- **Grants (Limited)**

- Permit Compliance cannot be funded by grants

- Grants could be used NOW (ahead of the permit) to achieve building blocks for the permit

- Fairbanks took this approach ahead of their MS₄ permit

- Mapping

- QAPP

Technical Discussion – Management Details

- **Funding Opportunities**
 - **Stormwater Fees**
 - Used throughout the US to pay for MS₄ compliance and stormwater infrastructure management
 - Similar to a fee for water, sewer, or trash
 - Usually charged monthly
 - Usually applies to all properties within a jurisdictional boundary
 - E.g. within a City limit, within the Urbanized Area, etc.
 - **Advantages**
 - More equitable than property taxes
 - Churches, schools, and other non-taxable entities often have a lot of impervious surface
 - Provides a dedicated funding stream
 - Can be used for infrastructure projects as well
 - Fees are completely tailored to the revenue needs, similar to water and sewer utilities
 - **Common Stormwater Fee Structures**
 - Equivalent Residential Unit
 - Flat Fee/Dual Fee

Technical Discussion – Management Details

- **Equivalent Residential Unit (ERU)**
 - Based on Impervious Surface
 - Figure out an “baseline” of impervious surface for residential parcels
 - Based on a sample of parcels
 - E.g. Average residential impervious area = 3,000 SF Impervious Surface
 - Assign a fee for each residential parcel (Each residence = 1 ERU)
 - 1 ERU = \$15/month
 - Delineate impervious surface for all other types of parcels
 - Commercial, industrial, multi-family, public use, etc.
 - The baseline fee scales up accordingly
 - 6,000 SF of Impervious Area = 2 ERU
 - 2 ERU = \$30/month



Technical Discussion – Management Details

- Equivalent Residential Unit (ERU)



Technical Discussion – Management Details

- Equivalent Residential Unit (ERU)



Technical Discussion – Management Details

- **Additional Coordination Needed**
 - Permittee Coordination/Work Session needed to discuss details and preferences.

Group Questions and Discussion



Next Meeting/Closing

- Next Meeting is October 31st via Teams
- MSB will send invitations
- Final meeting is a good opportunity for question or discussion.

