

MS4 Summary for CBERRRSA

2021

Costs incurred:

Sweeping - \$204,706.12

Storm Drainage System Cleaning and OGS Maintenance **\$41,261.12**

Sand / Salt Purchases **\$ 153,463.00 - Sand**

\$ 11,514.89 - Salt

Program Coordination Agreement for APDES Permit AKS-052558 Municipality of Anchorage Eagle River Street Maintenance Division For Permit Years Beginning August 1, 2020 through 2025 inclusive

Purpose:

Coordination of MS4 activities as required specifically relative to the Public Works Administration Department, Eagle River Street Maintenance Division ('ERSM'), the Municipality of Anchorage agency responsible for Municipal Separate Storm Sewer System (MS4) maintenance and operations within the Chugiak Eagle River Rural Road Service Area (CBERRRSA).

1. Coordination Agreement

This coordination agreement describes activities of ERSM, a relevant Municipality of Anchorage (MOA) organization, as required in the Permit

ERSM will name a point of contact as the ERSM MS4 Permit Lead/Liaison. This person will coordinate directly with Watershed Management Services (WMS), with internal M&O groups and other road service area agencies, as necessary.

Mark H. Littlefield, Deputy Officer, ERSM

The ERSM MS4 Permit Lead/Liaison will provide an organizational chart showing all ERSM groups involved in permit compliance activities to WMS by August 1, 2020, for inclusion in the coordination plan submittal to the Alaska Department of Environmental Conservation ADEC.

See attached

1.1 Construction

ERSM will submit Stormwater Pollution Prevention Plans (SWPPPs) and any required review fee for construction sites disturbing 10,000 square feet or more to WMS for review and approval as outlined in Building Safety Handout AG21 before start of construction.

CBERRRSA's contractor did not have any that met these criteria in 2021 projects that required APDES SWPPP documentation.

ERSM will submit project plans and any required review fee for construction sites disturbing 500 square feet and pose a potential threat to receiving water quality to WMS for review and approval before start of construction as outlined in Building Safety Handout AG21.

**We had a total of 7 projects that fits these criteria,
(See attached documentation)**

ERSM will ensure appropriate site controls, internal inspections, and good housekeeping practices for projects of all sizes resulting in ground disturbance.

We met intent of the permit on this item.

ERSM will assure training of staff inspectors and construction site operators on erosion and sediment control selection, installation, maintenance, and administration. ERSM will:

Identify and notify the staff and contractors who require training as outlined in the permit

**Both the ERSM Superintendent and the ERSM Road Supervisor are CESCL certified, and ERSM
two (2) McKenna Bros Inc. contractor**

See attached training sign in sheets relating to BMP and proper uses

Coordinate training with the AK CESL program (<http://ak-cescl.net/>)

MOA / Mark H. Littlefield CESCL Cert # AGC-19-0130

Expires 3-2022

MOA / Anthony Winsor CESCL Cert# CC-21-7734

Expires 3/2024

McKenna Bros Paving / JR Walden CESCL Cert # AGC-21-0206

Expires 5-2024

McKenna Bros Paving / Roman Schierholt CESCL Cert # ASA-21-0118

Expires 5-2024

1.2 New and Redevelopment (Permit Section 3.2)

1.2.1 Repair of Public Streets, Roads or Parking Lots. (Permit Section 3.1.3.1)

ERSM will evaluate the feasibility of incorporating runoff reduction techniques into the repair of streets, roads, and parking lots using canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, rain gardens, infiltration trenches, extended filtration and/or evapotranspiration and/or any combination of the aforementioned practices. Where such practices are found to be feasible, ERSM must consider the use of such practices in the design and repair.

ERSM had scheduled and completed five (5) projects in CBERRRSA Area in 2021 that incorporated the runoff techniques. Engineered infiltration on Delores, West Lake, Magnaview, Kullberg, and Meadow Canyon drive.

ERSM will coordinate with Office of Public Works Administration to obtain funding as needed for runoff reduction projects.

CBERRRSA maintenance funding is collected and dedicated to the CBERRRSA area and Eagle River Street Maintenance Staff will evaluate each project to utilize the best runoff techniques or principles when feasible or economical.

1.3 Operation and Maintenance of Permanent Stormwater Controls (Permit Section 3.2.5)

1.3.1 Inventory and Tracking (3.2.5.1)

ERSM will assist WMS in tracking publicly owned permanent stormwater controls in CBERRRSA.

ERSM has continual changes and constant updates with close coordination with WSM for a comprehensive, up to date, and functional mapping and database for the CBERRRSA area storm drainage systems.

Coordinate with WMS in the review of O&M plans for new, publicly owned stormwater BMPs.
ERSM met this requirement

Provide an annual update to WMS by December 31 of each year summarizing new controls added to its inventory during that year.

ERSM did not add any new controls in 2021

Snow Disposal Sites (Permit 3.3.2)

ERSM will annually, by December 31, submit to WMS, an updated list of snow disposal sites, operated by ERSM.

In 2021 Eagle River Street Maintenance still does not have and control a Snow Disposal site, however the CBERRRSA leases a full-fledged a snow disposal site from an outside entity, specifically from Eklutna Inc. Eklutna Inc retains full control of the SWPPP and control of the site that is in place for the site/facility.

1.4 Stormwater Infrastructure and Street Management (Permit Section 3.4)

1.4.1 Storm Sewer Inventory and Mapping (Permit Section 3.4.1)

ERSM will by August 1, 2020, develop/continue to maintain a maintenance tracking database with schedules, actions taken, and progressive needs for continued MS4 function. As part of maintaining this database, an effort should be made to identify and inventory any existing assets that were previously not cataloged.

ERSM is currently 100% complete in this inventory and identification of our assets in the CBERRRSA area.

As new structures are added we will submit updates to WSM.

By August 1, 2020, coordinate with WMS to develop and implement a process to annually incorporate new information from construction record drawings to update the MS4 inventory. The MS4 inventory must include:

The location of all inlets catch basins and outfalls.

Complete

The location of all MS4 collection system pipes (laterals, mains, etc.).

Complete

The location of all existing structural storm water treatment controls.

Complete

The location of permittee-owned vehicle maintenance facilities, material storage facilities, maintenance yards, and snow disposal sites; permittee-owned or operated parking lots and roadways.

Complete

The location, age, type, size and configuration of Oil Grit Separator (OGS) structures and the drainage area served by each OGS structure, and the entity responsible for the maintenance of the road and drainage facility.

No change from 2018, 2019, 2020

Eagle River Street Maintenance has identified the location, type, and configuration of Oil Grit Separator (OGS) structures within the CBERRRSA area that are our responsibility to maintain. We are unable to identify the age of three OGS structures, no record found on installation.

1.4.2 Catch Basin and Inlet Cleaning (Permit Section 3.4.3)

ERSM will throughout the permit term, maintain a program to inspect all CBERRRSA-owned or operated catch basins and inlets at least annually and take appropriate maintenance action based on those inspections

See attached 2021 annual inspection or cleaning.

Cleaned 100% of the structures in CBERRRSA in 2021

Catch Basins – 549

Catch Basin Manholes – 508

Drywells – 18

Lift Station – 1

OGS – 13

See attached 2021 Catch Basin, Catch basin Manhole, and Drywell Cleaning annual inspection or cleaning. We have a six-year average of sump depth data for our reference. Our operation cleans or inspects 100% of the Catch Basin / Catch Basin Manholes / Drywells / Lift Station and OGS's every year.

Coordinate with WMS develop and implement a SOP for the treatment and disposal of catch basin and OGS wastes. The SOP shall address both solid and liquid portions of the waste stream.

Decanting is conducted at our Hiland facility where no water is allowed to leave the site, solid waste materials are transported to the Anchorage Regional Landfill for their use as cover or disposal.

1.4.3 Street and Road Maintenance (Permit Section 3.4.3)

ERSM will by August 1, 2020, update the ERSM Standard Operating Procedures. The SOPs must contain, for each activity or facility, inspection and maintenance schedules specific to the activity, and appropriate pollution prevention/good housekeeping procedures for all the following types of facilities and/or activities listed below

- Streets, Roads and Parking Lots (Permit Section 3.4.3.1)
- Inventory of Maintenance Materials (Permit Section 3.4.3.2)
 - Covered Sand Storage (Permit Section 3.4.3.2)
 - Street and Road Sweeping (Permit Section 3.4.4)

No change to our SOPs for the CBERRRSA area.

See attached for 2021 reviewed and updated SOP for the CBERRRSA area.

Maintain an inventory of road maintenance materials including the use of sand and salt and submit a summary report each year by December 31 for inclusion in the annual report.

See attached Material inventory for 11-4-21

CBERRRSA 2020 Materials as of 11-4-2021

	<u>On Hand</u>	<u>Ordered</u>	<u>Used</u>
Salt	74.53 Tons	75 Tons	97.07 Tons
Sand	11,190 Tons	8000 Tons	6,365.70 Tons
Mag Chloride	8,750 Gallons	as Needed	180 Gallons

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1.4.4 Street and Road Sweeping (Permit Section 3.4.4)

ERSM will coordinate with WMS to keep updating the street sweeping management plan

Coordinate with WMS and ADOT on how the visually clean method of performance will be evaluated.

CBERRRSA together with ADOT, ADRSA, and WRM established a standard to comply with performance measures that was mutually agreed upon.

For areas where street sweeping is technically infeasible, provide a summary report by December 31, 2016, for the first year Annual Report why sweeping is infeasible, and document how ERSM will increase implementation of other trash/litter control procedures to minimize pollutant discharges to the MS4 and receiving waters.

See attached sheet identifying the areas in 2021.

Submit annually to WMS by December 31 for inclusion in the Annual Report a summary of the prior year's sweeping activity this report shall include.

- A map of all designated streets, roads, and public parking lots with their respective sweeping frequency
Map is not generated for this year, previous maps for previous years is available through the WSM group.

Dates of sweep, completeness, types of sweepers used, number of passes on road surfaces and gutters, interference from parked vehicle or construction activities, other relevant qualitative information such as 'visually clean' evaluation and frequency category.

Complete and submitted to WSM as of November 4, 2021.

A summary of volume or weight of materials removed and a representative sample of the particle size distribution of swept materials.

Complete and met as of November 4, 2021.

Public outreach efforts or other means to address excess leaves and other material as well as areas that are infeasible to sweep. Efforts encouraging residents to move vehicles to maximize street surfaces available for sweeping.

- **Eagle River Street Maintenance contractor will continue to sweep areas to pick up leaves if weather permits, this sweeping is in addition to the fall sweep.**

1.4.5 Herbicides, Pesticides, and Fertilizers (Permit Section 3.4.5)

ERSM will implement practices to reduce the discharge of pollutants associated with the application, storage, and disposal of pesticides, herbicides, and fertilizers, and document these practices in the SOPs developed for Permit Section 3.4.6. ERSM will:

ERSM did not utilize and pesticides, herbicides, or fertilizers in 2021

1.4.6 Develop and Implement Storm Water Pollution Prevention Plans (Permit Section 3.4.6)

ERSM will conduct annual inspections and revise, as necessary, and implement SWPPPs for all CBERRRSA-owned, material storage facilities, maintenance yards, and snow disposal sites.

- **No Change from the previous year's submittal**

Eagle River Street Maintenance will continue to conduct inspections at both our facilities based on our facility SWPPPs.

Yearly, Submit annual inspections to WMS by December 31 for inclusion in the Annual Report
See attached "USB" for inspections of the facilities for the SWPPP.

Where presence of prohibited discharges indicates the need for corrective action, perform necessary corrections, update SWPPPs to incorporate preventative measures, and submit details with the annual summary.

No discharges from our maintenance and storage facilities in 2021

When new facilities are built, develop and implement a SWPPP as part of the start-up activities.
No new facilities or buildings was constructed to prompt a SWPPP change at either of our maintenance facilities.

1.5.7 Staff Training (Permit Section 3.4.7)

ERSM will provide training for staff based on SOPs, SWPPPs, and in general permit education.:

Perform this task by developing and delivering training to field staff (or by contracting for appropriate equivalent training) and by maintaining records to document that the training has been held annually for all field staff.

Due to the potential COVID, we provided handouts to the contract work force in both the spring and fall. Hopefully we will resume in house training in spring 2022. See attached training schedules of the CBERRRSA 2021 Spring and Fall Training. Due to the Covid complications field documentation was not conducted this summer by work performed by our contract work force.

Provide to WMS by December 31 of each year, the dates of each training held in the last 12 months, an outline of the material covered at each training, and the number of participants.

See attached training outlines of the CBERRRSA contract work force

1.6 Illicit Discharge Management (Permit Section 3.5)

ERSM will coordinate spill prevention, containment, and response activities with other departments of the MOA and DOT and will provide training to its field staff on identifying and eliminating illicit discharges, spills, and illicit connections to the MS4.

ERSM will provide annual summary of spills and response actions to WMS by December 31 of each permit year.

No noted or reported spills during this period

1.8.1 Evaluation of Program Effectiveness (Permit Section 4.3)

ERSM will provide a yearly summary of how their activities met or did not meet the intent of the Permit and how they will change their SOPs, as appropriate, in the coming year to better meet their needs. A summary report to WMS by December 31 of each permit year.

This submittal should serve as our summary of events in the CBERRRSA area.

1.8.2 Record Keeping (Permit Section 4.5 and 2.8)

ERSM will be responsible for compiling and archiving records of their compliance activity as required by the permit.

Records of our maintenance activities are available at our Eagle River office.

Prepared by:

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