

**ADOT PF**  
**2012 MS4 Summary**

Cost:

Sweeping- \$1,919,523.38

Drain cleaning- \$403,188.00

Sand/Salt- \$566,154 / \$511,036

GIS Mapping - \$201,631.76

Sand Storage Facilities

    Design - \$98,107.44

    Girdwood Building - \$39,696.45

Met/did not meet intent:

**Pg. 7 B 1. Construction Site Runoff Control Program**

DOT M&O did carry out construction projects exceeding 10,000 SF of land disturbance, none of which required SWPPP's, internal reviews, or written approval.

**Pg. 17 e) (i) Inventory and Tracking**

SCOTT WHEATON

**Pg. 21 b) Catch basin and inlet cleaning**

DOT did meet the intent of the permit. During the 2012 season there were 3,721 inspections performed and 1550 structures cleaned based on the SOP criteria. Additionally, 49 DOT owned OGS were inspected and cleaned. Please reference drain cleaning summary, invoices with daily logs, and OGS log.

**Pg. 22 (iii) Covered Sand and Salt Storage**

The Design of all three facilities is complete. DOT requested \$14,000,000 to construct all three facilities. DOT received authority for \$3,405,418 to begin construction of the Girdwood facility. Approval to construct the remaining two is still under review.

**Pg. 22 d) Street and Road Sweeping**

DOT did meet the intent of the permit. DOT contracts this activity and secured additional funding to expand the program to meet the permit. All roads were categorized based on the criteria given and swept in accordance with the permit requirements given in Table II.B-2. DOT has provided data to show the street/road names, times and dates swept, load counts and equipment packages used.

M&O did not use any pesticides or herbicides.

No spills or unplanned releases to report.

**Pg. 23 g) Training**

- **Spring Fling:** 4-3-12 and 4-4-12. CR Construction Annual Training. A portion of this training always deals with environmental issues and emphasizes things that have changed in the last year or things that we had problems with during the last year. (Agenda and List of Attendees attached).
- **Environmental Expo:** 3-22-12. See attached outline and list of participants.

**Pg. XX, SWPPP Documents**

- **Facility SWPPPs:** Birchwood, Girdwood and Anchorage have rough drafts of SWPPPs.
- **Snow Storage Sites:** There are two DOT sites and they need site visits and SWPPPs written, probably in the spring.

## 2012 MS4 Summary For ARDSA

### Costs Incurred:

	Contracted	Force Account			Total
		Labor	Equipment	Misc.	
Sweeping Spring		\$348,420	\$513,808	\$0	\$862,228
Summer		\$84,010	\$130,311	\$0	\$214,320
Fall		\$62,110	\$103,499	\$0	\$165,610
	\$124,812				\$124,812
<b>Total Street Sweeping</b>	<b>\$124,812</b>	<b>\$494,541</b>	<b>\$747,618</b>	<b>\$0</b>	<b>\$1,366,970</b>
Storm Drainage/ Control Structure System Maintenance	\$141,365	\$23,420	\$22,140	*	\$186,925
OGS Maintenance	\$0	\$37,689	\$38,165	*	\$75,854
Winter Sand 10,000 T	\$0	\$244,500	\$54,395		\$298,895
Sand Storage Facility (Utility Costs)	\$0	N/A	N/A	** \$50,000	\$50,000
Magnesium Chloride 24,905 Gal	\$0	*	*	\$45,277	\$45,277
GBA-Asset Management Data Collection Outside Vendor	\$135,213	** \$4,000	*	*	\$139,213
Storm Water Pollution Prevention Plans & Inspections	\$75,793	** \$90,000	*	*	\$165,793
<b>Total</b>	<b>\$477,183</b>	<b>\$894,150</b>	<b>\$862,318</b>	<b>\$95,277</b>	<b>\$2,328,927</b>

\* Not Quantified

\*\* Estimated

### **Part II. Storm Water Management Program (SWMP) Requirements**

#### **Pg. 6, A. General Requirements, 1.- 3.**

It is the opinion of the Department of Public Works, Street Maintenance Section, (SM) that Anchorage (ARDSA) has met the requirements of this section.

Working in concert with WMS and other co-permittee(s) to meet these requirements.

#### **Pg. 7, 1.: Construction Site Runoff Control Program, B. Minimum Control Measures**

ARDSA, SM activities have met the requirements of this section for all Street Maintenance projects within the service area.

**Pg. 21, 4.), c.) Street and Road Maintenance**

Substantially in compliance with the permit. SM materials inventories are completed (See Costs Incurred), continued efforts will be employed to further the accuracy of materials on hand from season to season. Sand storage building continues to be our prime location for maintenance materials.

**Pg. 22, 4.), d.) Street and Road Sweeping**

In coordination with WMS, SM has met these requirements.

**Pg. 23, 4.), e.) Pesticide, herbicide and fertilizer applications**

Presently, DPW, SM does not use these types of materials.

**Pg. 23, 4.), f.) Develop and Implement Storm Water Pollution Prevention Plans**

In Coordination with WMS/PM&E these SWPPP's will be written for each of the facilities in 2012 as required. SM and WMS have contracted with Professional and Technical Services, Inc. (PTS) to write the CGP/SWPPP and inspect the SM maintenance projects. SM maintains the project BMP's.

**Pg. 23, 4.), g.) Training**

Training has been conducted for Sweeping Practices/Protocol, project BMP's and Spill Prevention/Response. This training will continue to meet the permits intent. Several employees are CESCL trained and will continue this effort in the years that follow.

**Pg. 26, 5.), f.) Prevent and respond to Spills to the MS4**

In 2012, there was one incident that we are aware of, it was reported that there was an orange plume in Chester Creek near or around A/C Streets, reports came to SM on July 18, 2012, complaint was investigated, release could not be identified and or contained as it diluted very quickly. SM continues to train employees on spill prevention and response. SM is prepared to participate and assist the emergency response team when a policy is supported.

MUNICIPALITY OF ANCHORAGE  
Public Works Department  
Maintenance & Operations – Street Maintenance

2012 ANNUAL APDES TRAINING REPORT

**Description**

Street Maintenance held its annual APDES training on June 13, 2012, and was conducted by the Street Maintenance General Foreman, Paul VanLandingham. All supervisory and operations staff were present for this training. During this training, the entire 2010 APDES II Permit was covered with special attention to the following areas:

1. Applicability
2. Storm Water Management Program Requirements
3. Monitoring, Recordkeeping and Reporting Requirements
4. Compliance Responsibilities
5. General Provisions

A more comprehensive training was also conducted by Paul VanLandingham with the supervisory staff, which included a more in-depth explanation of compliance responsibilities and general provisions of the permit.

All supervisors and operators were trained in June, 2012 on all Standard Operating Procedures pertaining to the street sweeping program. Staff was briefed on the following areas:

1. Street Sweeping Reporting Requirements
2. Sweeping Schedule
3. Identification of Street Segments
4. Types and numbers of equipment to be used
5. Quality Control / Performance

All supervisory staff and leadsperson staff have been trained in Erosion and Sediment Control. This training included:

1. Compliance with Alaska's CGP
2. SWPPP management and implementation
3. Proper BMP selection, installation and maintenance
4. Proper documentation of corrective actions needed following site inspections.
5. Importance of final stabilization at projects end.

In addition, all crew members involved on projects that required a SWPPP were refreshed on a bi-weekly basis on the correct use of Best Management Practices (BMP's), installation and maintenance, as well as the use of new or preferred BMP's and any regulation or permit updates.

Street Maintenance  
2012 ANNUAL APDES TRAINING REPORT

**Reportable Hours**

**1. APDES – Sweeping**

Total Hours: 129

**2. APDES – SWPPPS – CESCL**

Total Hours: 72

**TOTAL TRAINING HOURS FOR 2012: 201**

**2012 MS4 Summary for CBERRRSA**  
**11-15-2012**

**Costs incurred:**

Sweeping	- Spring	\$ 65,563.42	
	- Summer	\$ 55,388.06	
	- Fall	\$ 63,634.00	
	<b>Total</b>	<b>\$184,585.48</b>	
Storm Drainage System and OGS Maintenance		<b>\$78,227.50</b>	
CCTV/GIS Storm Systems Inspections		<b>\$335,413.35</b>	
Sand / Salt Purchases		<b>\$152,500.00</b>	- Sand
		<b>\$ 89,016.40</b>	- Salt
Hiland Sand Storage Facility Upgrades		<b>\$ 23,433.93</b>	
Magnesium Chloride Storage Facilities Upgrades		<b>\$ 8,473.45</b>	
<b><u>TOTAL</u></b>		<b>\$817,550.11</b>	

**Met/Did not meet intent:**

**Pg. 7 B 1. Construction Site Runoff Control Program**

CBERRRSA's contractor had two projects that required SWPPP documentation, (See attached) and one has terminated the other is in winter shutdown. We met or exceeded the intent of the permit on this item.

**Pg. 17 e) (i) Inventory and Tracking**

Municipality of Anchorage's Watershed Management staff and Eagle River Street Maintenance Office Staff are utilizing ARC/GIS to reconfigure the ERSM drainage system and map the data base. ERSM has also utilized a CCTV contract for 2012 and completed 100% of stormline inspections and GIS data collection, looking to completely GIS/Map all our structures and storm drainage systems by February 1<sup>st</sup> 2013.

**Pg. 21 b) Catch Basin and Inlet Cleaning**

- ERSM inspected 1000 Catch Basins, Manholes, and Catch Basin/Manholes in the CBERRRSA area in 2012
  - ERSM cleaned 997. Catch Basins, Manholes, and Catch Basin/Manholes in the CBERRRSA area in 2012.
- CBERRRSA has Seven OGS structures ( See attached)
  - Six of the seven OGS structures were inspected and cleaned in 2012.
    - One structure (Marion Bowen Subdivision) is still under subdivision warranty and is the responsibility of the developer to maintain.
      - Status unknown.

**Pg. 21 c) Street and Road Maintenance**

- CBERRRSA reviewed our area SOP's and has no changes to the area SOP's for 2012

**Pg. 21 c) (ii) Inventory of Street Maintenance Materials**

- See attached Sheet labeled CBERRRSA Material Inventory

**Pg 22 (iii) Covered Sand and Salt Storage**

- CBERRRSA has funding for the Hiland Sand Storage Facility with construction slated for spring of 2013 and are currently waiting for legislative funding for the Chugiak facility.

**Pg 22 d) Street and Road Sweeping**

- CBERRRSA met the intent of the permit, all the roads were categorized based on the provided criteria and swept in accordance with the permit requirements given in table II.B-2.
  - CBERRRSA provided the data to document the street/road names, times and the dates swept, loads counts for the road or the area, and the equipment package that was used to accomplish the task to the Municipal Watershed Management department.



### **Pg 22 v) Street and Road Sweeping**

- After review of the past two years sweeping practices in the CBERRRSA area and thru compliance to the sweeping criteria, the Eagle River Street Maintenance staff is eliminating our summer sweep and will modify the summer sweep to a “as needed” basis and site specific for the area.
  - ERSM will continue to evaluate the areas and our overlay program and move certain roads from the kick broom listing to the pick up broom list as necessary to better serve the community and will forward the list and changes to WMS when the reviews are complete.

### **Pg 23 e) Implement appropriate requirements for patricide, herbicide and fertilizer applications.**

- CBERRRSA did not use and pesticides, herbicides, or fertilizer in 2012

### **Pg 23 f) Develop and implement Storm Water Prevention Plans.**

- CBERRRSA has in place master plans and SWPPP’s for our two storage facilities, one at 8501 Hesterberg Lane, Eagle River and the other at 19200 Kerbow Lane, Chugiak. Both locations are being inspected on the permit required basis.
  - No reported spills or unplanned discharges took place at either location in 2012

### **Pg 23 g) Training**

- Copy of Contractor personnel during our fall meeting, items discussed:
  - Spill response
    - Contact info and first responder requirements
  - Plowing techniques – changes to SOP, specifically the bridge plowing
  - Sand and deicer use and reporting procedures

Prepared by:  
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# MUNICIPALITY OF ANCHORAGE



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Eagle River Town Center, Room 131  
12001 Business Blvd., Eagle River 99577

Mayor Dan Sullivan

Phone: 907-343-1510  
Fax: 907-694-1540

Kristi Bischofberger, Watershed Manager

Department of Public Works  
Project Management and Engineering  
4700 Elmore Road  
Anchorage, Alaska 99507

RE: CBERRRSA Materials 2012

## CBERRRSA 2012 Materials as of 11-15-12

	<u>On Hand</u>	<u>Ordered</u>	<u>Used</u>
Salt	35 Tons	440 Tons	400 Tons (Mixed 10-30-12)
Sand (10-11/05-12)	18,000 Tons	10,000 Tons (10-12)	8,463 Tons
Mag Chloride (10-11/05-12)	4,500 Gallons	As Needed	26,249 Gallons
Type II & IIA	820 Tons	15,000 Tons	14,461 Tons
Drainage Rock	2,705 Tons	20,000 Tons	9,036.84 Tons
Rap	20,900 Cubic Yards	0	4,736 Cubic Yards
Roto Millings	13,500 Cubic Yards	0	1,836 Cubic Yards
Topsoil	7 Cubic Yards	335	328 Cubic Yards
C Chips	8,800 Tons	0	0
E Chips	0 Tons	0	3,250 Tons
F Chips	0 Tons	0	4,825 Tons
Emulsion CSS-1	0 Tons	18.87 Tons	18.87 Tons

} Used as Winter Sand 011-012

Sincerely,

**Mark H. Littlefield**

**General Foreman**

Eagle River Street Maintenance  
Public Works, Administration, M.O.A.  
Office: 343-1512  
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# CBERRRSA Oil and Grit Separator List

<b>Grid</b>	<b>Structure #</b>	<b>Physical Address</b>	<b>Type</b>
NW0052	NA	Chain of Rock, N of Meadow Creek	T - Type
NW0052	9	10218 Genora	Multi Chamber
NW0251	1	Farm, E of Breckenridge	T - Type
NW0252	NA	Bowen Cir, at Old Glenn	Stormceptor
SW0154	49	Behind 18748 May Ct.	T - Type
NW0151	NA	Regency + Business	T - Type
NW0353	3	Chablis Cir	T - Type

Winter Training Meeting w/ McKenna Paving, Inc.

Tuesday, October 2, 2012 @ 6:00 p.m.

NAME:	HOME PHONE:	CELL PHONE:
1 J.R. WARREN	222-0682	952-3420
2 Corey Klingemeyer	n/a	441-8226
3 Allen Hill	same	354-8041
4 Pamela Gray	same	625-1408
5 "Bud" Bawn Konnath	same	854-9668
6 Branson Morn		301 2268
7 Travis Torkelson	N/A	315-2622
8 Pat Landfo	338-0303	444-9592
9 Nick Andrews	317-4092	same
10 Johnny Muntrostle	726-5314	350-3897
11 Fred Denton	373-5259	715-0803
12 Justin Weir	577-8542	529-9223
13 Kolbe Eppay	952-0240	
14 DAN RYZNAC	830-0297	
15 Mike Weitz	696-5446	862-5445
16 Ridge Wright	360-5574	same
17 Tom Anderson	357-4100	529-9075
18 Cole Christianson	<del>250-6325</del>	<del>250-6325</del>
19 Geneo Murray	222 5191	529 2277
20 DONALD WRIGHT (Sonny)	892-5383	255-5383
21 Weston Mike's		952-3329
22 "Nathan Shawn Howell		982-2802
23 Dawn Lyons		841-7006
24 Shawn Silverthorn	351-5866	SAME
25 JON SAUERBRAY	727-7630	SAME
26 MARIL H. LITTLEFIELD	727-0805	
27 SALAWAL McBRIDE	343-1513	223-9307
28 Heather Reed		
29		
30		
31		
32		

# Winter Training Outline – 2012-2013

## Safety

- Be alert
- Equipment ready
- Chains
- Tree Clearing
- Spill Clean-up
  - First Responders
  - Containment
  - Notification
  - Monitor
  - Clean-up

## Productivity

- Be efficient
  - Maintenance drives CIP
- Track downtime
- Radio
  - Business only
  - Be aware of who is listening

## Operations

- Sanding
  - Use judgment with sanding
    - Use enough without wasting it – sweeping costs
  - Check in with completions
  - Track TORA usages
- Plowing
  - Plow snow off the road
  - Use down pressure to peel streets
  - Driveway berms
  - Plow plan
  - New Roads
    - Conley
    - Rasmussen
    - Icefall – Mt. Vista
    - NOT Charmley
- Blow Back
  - Do not damage sidewalks
  - Graders remove snow first
- Thawing
  - New thaw truck

## Public Relations

- Be polite
- Refer complaints to ER Office

# Winter Training Outline – 2012-2013

Pass out business cards

## Time Cards

Be accurate

Use dates and AM-PM when working odd shifts

**CBERRRSA Structure Count**

November 13, 2012

<b>North Grid No.</b>	<b>No. of Structure</b>	<b>Notes</b>	<b>South Grid No.</b>	<b>No. of Structures</b>	<b>Notes</b>
NW0052	23		SE00703	10	
NW0053	56		SE0905	4	
NW0054	13		SW0052	6	
NW0055	33		SW0053	34	
NW0056	34		SW0055	4	
NW0058	5		SW0056	10	
NW0151	72		SW0151	1	
NW0152	31		SW0152	24	
NW0153	1		SW0153	14	
NW0154	58		SW0154	92	
NW0155	2		SW0155	75	
NW0157	1		SW0156	32	
NW0251	87		SW0159	2	
NW0252	8		SW0160	4	
NW0253	3		SW0161	3	
NW0254	2		SW0162	1	
NW0351	55		SW0249	8	
Nw0352	15		SW0262	4	
NW0353	9		SW0254	2	
NW0451	50		SW0255	2	
NW0553	2		SW0355	1	
NW0554	2		SW0357	10	
NW0653	1		SW0358	3	
NW0654	1		SW0364	1	
NW0955	4		SW0358	3	
NW1058	1		SW0457	1	
NW1255	2		SW0658	4	
NW1262	1		SW0758	15	
NW1359	7		SW0859	8	
NW1360	1		SW0959	3	
NW1458	11		SW1060	1	
NW1459	6		<b>Total SW =</b>	<b>382</b>	
NW1460	2				
Nw1461	1				
NW1557	5				
NW1558	1				
NW1559	2				
NW1560	7				
NW1561	2				
NW1764	1				
<b>Total NW =</b>	<b>618</b>		<b>Grand Total =</b>	<b>1000</b>	