

CROW WING COUNTY

February 21, 2019 Snow Event #10 - 2019 Petra

Reported Event Conditions	
Date:	2/20/2019
Event No:	#10-2019 Petra
Begin Time:	2/20/19 5AM
End Time:	2/21/19 9PM
Weather:	Snow
Precipitation:	5" snow
Temperature:	22\7
Wind:	5 - 10 MPH

Event Costs	
Salt	\$15,620
Sand	\$340
Brine	\$1,864
Equipment/Fuel	\$26,825
Personnel Reg.	\$9,383
Personnel OT	\$4,780
Total	\$58,812
Cost Mile	\$105
Season Total:	\$830,409

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	100%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	100%
Priority 3	
% Target 3A Met:	100%

Legend

— MnDOT Highway

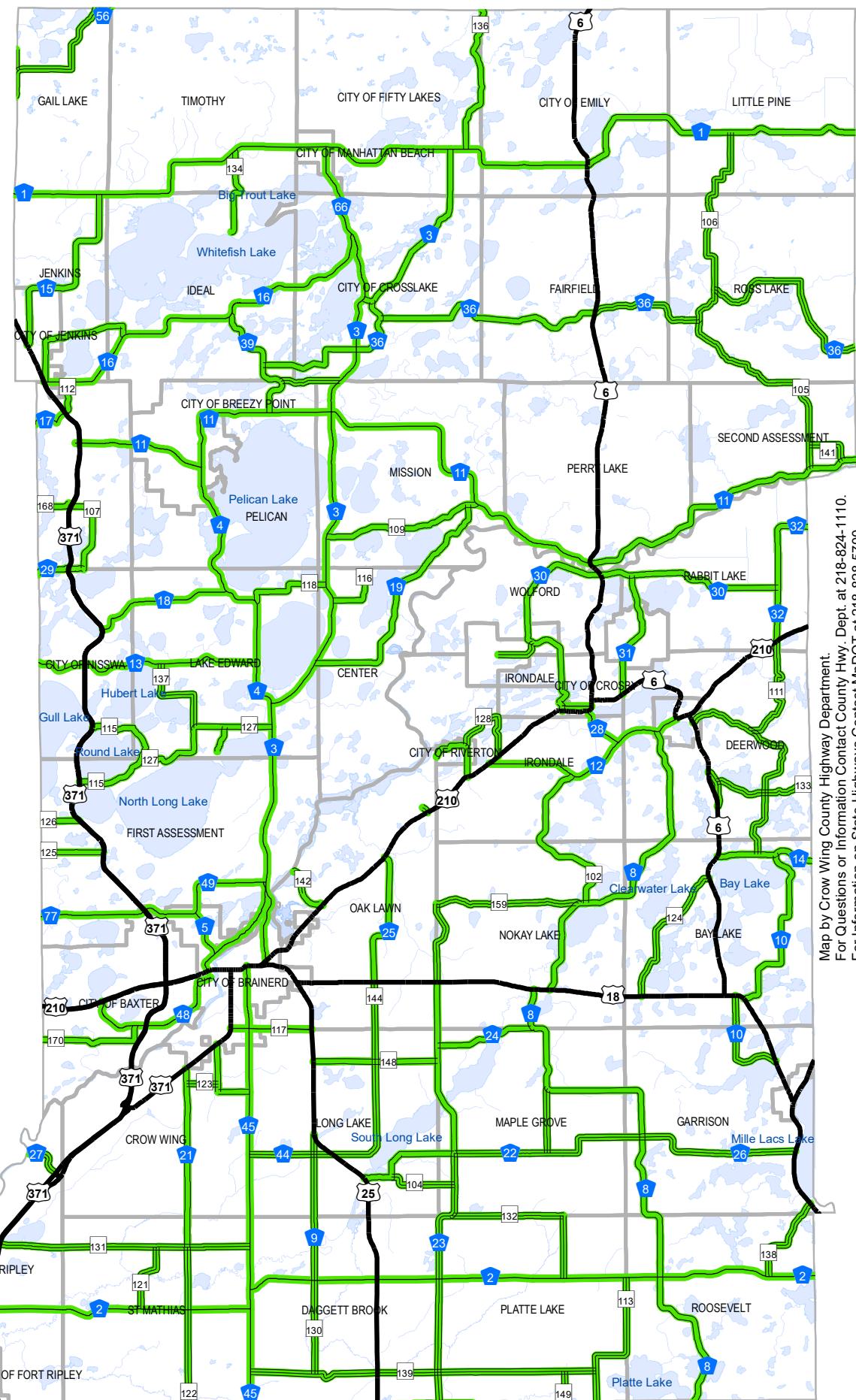
Route Priority

- 1 (ADT>5000)
- 2 (500>ADT<500)
- 3 (ADT<500)

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 2/25/2019



2018/2019 Summary For Snow Event #10 - 2019 Petra

Date 2-20-19

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
220	\$15,620	10	\$340	2824	\$1,864	\$17,824	\$26,825	\$9,383.00	\$4,780

Total	\$58,812	24.125 Plow hrs.	\$2,438 per/hr.
		386 Man hrs.	\$105 per/CL/mile

Forecast

5" of snow forecasted to fall between 3 AM 2/20 and 11 PM 2/20. Winds 5-10 mph. Temps between 20 - 8.

Pre Plan

Begin plowing at 7 AM 2/20 and continue into the evening. Come back at 3 AM 2-21 to plow and apply material. Apply 300 lbs to areas where snow is compacted and then on centerline late 2/20 and on 2/21.

Actual Event

Event start: 2/20/2019 5AM

Event ended 2/21/2019 9PM

Comments

Winter storm watch issued 2/19 for 6 AM 2/20 - 12 AM 2/21. Snow began falling much later than forecasted. Plows plowed until 8 PM on 2/20. Plows returned and began plowing at 2 AM 2/21. Priority 1's had bare drive lanes by 6 PM 2/20. Light flurries in the morning on 2/21.

Conditions

Light dry snow began falling at 5 AM 2/20 and slowly continued throughout the day until 9 PM 2/20. Wind was an issue between 11 AM - 2PM 2/20. It caused drifting and blowing on north/south roads.

Road	Road Temp	Date	Time	Air Temp
Hwy 371	12	2\19\19	10:00 PM	12
Hwy 18	19	2\20\19	10:00 AM	16
Hwy 6	19	2\20\19	5:30 PM	21
Hwy 371	12	2\21\19	4:00 AM	10

Date	High	Low
2/19/2019	19	-15
2/20/2019	22	7
2/21/2019	27	8
2/22/2019	22	3

Summary

Roads cleaned up well on 2/20 even with continued snowfall. The gravel portion of Cr 105, Cr 141 and 27 were not plowed until 6 AM 2/21 because there was not enough time to plow them on 2/20.

Decisions Made

Begin plowing at 10 AM 2/20 when there was enough snow to plow. Apply salt only where snow is compacting. Ended plowing for the day on 2/20 at 8 PM. Returned to plowing roads at 2 AM 2/21.

Lessons Learned

Using minimal salt on 2/20 worked well on compacted areas. We need to ensure all roads, including gravel are plowed at least once when there is snow pack on the gravel.

Goals Met/Not Met

Plowing	Goals
Priority 1	Met
Priority 2	Met
Priority 3	Met