

14 YEAR CUSTOMER SPOTLIGHT: HAUL ROADS

Midwest's Managed Service Program Delivers Results: 28km of Haul Roads Achieve Over 95% Dust Control, Saving More Than 1 Million Liters of Water Each Year

>95% Average dust control achieved & maintained	28km of haul roads treated with EnviroKleen®	>1,000,000 Liters of water saved annually
--	--	--

CHALLENGES

- Reduce fugitive dust emissions and fines loss created by extreme traffic loads including haul trucks and land trains.
- Implement a completely environmentally friendly solution and pass all strict environmental requirements
- Reduce frequent grading and road maintenance accelerated by fines loss.
- Create a solution that is storable, sprayable, effective, and durable in Arctic conditions.
- Eliminate costly watering operations that consume millions of liters of water annually.

SOLUTION

- Developed and launched a multi-year managed service program that expanded from a 1 kilometer test in 2015 up to the full 28 kilometers in 2017.
- EnviroKleen® applied in strategic intervals throughout each dust control season to maintain a high level of performance.
- Conducted regular VEO opacity assessments, monitored roadside dust levels, collected silt load samples, and continually analyzed data to maintain compliance and improve scheduling of applications.
- Custom-engineered a 50,000L spray system to enable faster, more efficient applications.

RESULTS

- **Multi-Year Sustained Dust Reduction:** Achieved and maintained an average dust reduction of over 95% on the full 28 kilometers of haul road according to roadside dust monitoring.
- **Eliminated Millions of Liters of Water Consumption:** Eliminated the need to draw and spray millions of liters of water from nearby lakes for dust control – saving money and resources.
- **Reduced 30-Meter No Spray Zone:** Extensive environmental testing compelled the Government to reduce the no spray zone near bodies of water from 30 meters to 15 meters.
- **Program Expansion:** Based on the success of the initial 1 kilometer trial in 2015, the program expanded to 10 kilometers in 2016, and the full 28 kilometers in 2017 and 2018.



PROJECT SUMMARY

Location: Arctic
Industry: Mining Haul Roads
Customer: Mine

The Mine partnered with Midwest to address their severe dust emissions, excessive fines loss, and accelerated road degradation. To comply with the strict environmental requirements and withstand the cold climate, EnviroKleen® was selected.

Following a successful 1 kilometer trial in 2015, the program expanded to 10 kilometers in 2016 and the full 28 kilometers in 2017 and 2018. The program delivered sustainable and reliable dust control with the average dust control efficiencies exceeding 95%, as confirmed by roadside dust monitors. Additionally, the program eliminated all watering activities, significantly reduced road grading and maintenance work, minimized fines loss, and ultimately improved the safety of the workers – without compromising the health of the surrounding eco-system.

This project confirmed the Midwest Managed Service Program's ability to deliver substantial, measurable, and sustainable reductions in dust emissions even in the most challenging and harsh environments.

LOOKING FORWARD

Midwest's Managed Service Program offers a scalable, long-term solution for high-traffic roads in harsh climates. EnviroKleen® has proven its long-lasting effectiveness in severe weather and heavy traffic, while still being environmentally friendly. This program demonstrates a reliable approach to managing dust sustainably, even in tough and demanding environments.