

PROJECT SPOTLIGHT: MUNICIPAL ROADS

*Sustainable Road Management:
Midwest's Fines Preservation Delivers
Measurable and Lasting Results To Satisfy
Residents*

85% Average Dust Reduction Maintained Through the Program	100% Positive Resident Feedback	100% Initial Reduction in Visible Dust Emissions
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CHALLENGES

- Persistent road dust diminished the quality of life for residents living nearby.
- Ordinary dust control treatments were inconsistent and ineffective.
- The Public Works Department (PWD) was faced with a high maintenance burden and increasing resident dissatisfaction.
- The PWD needed a solution that preserved their unpaved roads (comprised of A-1-a aggregate), eliminated dust, required infrequent applications and posed no harm to the environment.

SOLUTION

- Midwest evaluated the selected roads and developed an individual application program for each road.
- Established a Guided Self Apply Program using EnviroKleen® and a 1500 Portable Sprayer.
- Midwest provided application and equipment training to the PWD staff - enabling them to perform strategic applications themselves.
- On-going performance monitoring and data collection was conducted to verify the results of the program.

RESULTS

- **85%+ Dust Suppression:** EPA-certified testing showed over 85% dust and fines preservation months after application.
- **Immediate Impact:** Nearly 100% reduction in visible dust emissions.
- **Sustained Performance:** Silt loadings dropped from 266 g/m² to near zero; opacity readings improved from 25% to 0-5%.
- **Resident Satisfaction:** Positive feedback on air quality and road conditions.



PROJECT SUMMARY

Location: Georgia
Industry: Municipal Roads
Customer: Public Works Department

The Public Works Department (PWD) faced challenges in maintaining unpaved residential and collector roads within the municipality. Traditional calcium chloride dust control treatments were inconsistent, leading to resident complaints and environmental concerns.

In 2021, the PWD collaborated with Midwest to initiate a fines-preservation program utilizing EnviroKleen®, a non-chloride synthetic binder designed for long-term dust suppression and fines retention. The program achieved a sustained dust reduction exceeding 85%, accompanied by unanimously positive feedback from residents. This innovative, environmentally friendly approach empowers municipalities to deliver cleaner air, safer roads, and long-term cost savings while moving beyond traditional, less effective dust control methods.

LOOKING FORWARD

The Public Works Department now has a roadmap for expanding fines preservation, with proactive scheduling and improved outcomes. The program demonstrates the value of moving beyond traditional chlorides for longer-lasting, safer roads.