

## Dust Control Case Study Comparison Ongoing Water Application vs. DustLess Applications

Project Size	5 Acres Access Roads
Application Truck and Labor	\$165.00
Application Capability / 8 hours	10 Acres
Water Price	Assume negligible in this case study
DustLess Price (per gal)	\$11.00

### Water Application for Dust Control:

- 1.) Apply 5,000 gallons of water to 5 acres 3 times per day. Total water 15,000 gallons applied in 12 hours. (Current method)
- 2.) 15,000 gallons water sprayed daily may result in runoff. Retention ponds may be required to control sediment.
- 3.) Applied area will result in mud (tracking) quickly evolving to dust PM10 particulates in short period of time, due to evaporation

### DustLess Application:

1. Apply DustLess at a rate of 800 gallons per acre. Total of 4,000 gallons to be applied in 2.7 hours (Proposal "A")
2. Apply DustLess at a rate of 1000 gallons per acre. Total of 5,000 gallons to be applied in 4 hours (Proposal "B")
3. Apply DustLess at a rate of 1200 gallons per acre. Total of 6,000 gallons to be applied in 5 hours (Proposal "C")
4. Apply DustLess at a rate of 1400 gallons per acre. Total of 7,000 gallons to be applied in 6.5 hours (Proposal "D")
5. Apply DustLess at a rate of 1600 gallons per acre. Total of 8,000 gallons to be applied in 8 hours (Proposal "E")
6. Duration of application is 8 - 12 months. Subsequent applications may require approximately half of initial application.

	Current (H2O)	Proposed "A"	Variance	Savings %
Material	\$0.00	\$44,000.00	\$44,000.00	
Equipment \$/hour	\$110.00	\$110.00	\$0.00	
Labor \$/hour	\$55.00	\$55.00	\$0.00	
Application Hours	1560	2.7	-1557.3	
<b>Total Cost</b>	<b>\$257,400.00</b>	<b>\$44,445.50</b>	<b>\$212,954.50</b>	<b>479.14%</b>

	Current (H2O)	Proposed "B"	Variance	Savings %
Material	\$0.00	\$55,000.00	\$55,000.00	
Equipment \$/hour	\$110.00	\$110.00	\$0.00	
Labor \$/hour	\$55.00	\$55.00	\$0.00	
Application Hours	1560	4	-1556	
<b>Total Cost</b>	<b>\$257,400.00</b>	<b>\$55,660.00</b>	<b>\$201,740.00</b>	<b>362.45%</b>

	Current (H2O)	Proposed "C"	Variance	Savings %
Material	\$0.00	\$66,000.00	\$66,000.00	
Equipment \$/hour	\$110.00	\$110.00	\$0.00	
Labor \$/hour	\$55.00	\$55.00	\$0.00	
Application Hours	1560	5	-1555	
<b>Total Cost</b>	<b>\$257,400.00</b>	<b>\$66,825.00</b>	<b>\$190,575.00</b>	<b>285.19%</b>

	Current (H2O)	Proposed "D"	Variance	Savings %
Material	\$0.00	\$77,000.00	\$77,000.00	
Equipment \$/hour	\$110.00	\$110.00	\$0.00	
Labor \$/hour	\$55.00	\$55.00	\$0.00	
Application Hours	1560	6.5	-1553.5	
<b>Total Cost</b>	<b>\$257,400.00</b>	<b>\$78,072.50</b>	<b>\$179,327.50</b>	<b>229.69%</b>

	Current (H2O)	Proposed "E"	Variance	Savings %
Material	\$0.00	\$88,000.00	\$88,000.00	
Equipment \$/hour	\$110.00	\$110.00	\$0.00	
Labor \$/hour	\$55.00	\$55.00	\$0.00	
Application Hours	1560	8	-1552	
<b>Total Cost</b>	<b>\$257,400.00</b>	<b>\$89,320.00</b>	<b>\$168,080.00</b>	<b>188.18%</b>

Conclusions:

- 1.) Equipment, fuel, and labor savings
- 2.) Environmental and health improvements. Retention ponds eliminated.
- 3.) Access road stabilization based on fines remaining in the roadway (reduces washboarding)
- 4.) Water costs will vary per location. Quite expensive in many areas of the country.

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