

Leavenworth County Gravel Road Dust Control Program

March 2012

The intent of the policy is to provide a consistent mechanism in which residents can effectively control dust generated from traffic on the public gravel roadways within the unincorporated portions of Leavenworth County. The funding requirements outlined in this policy are intended to provide a fair and equitable cost share between public and private interest. Participation in the program by Leavenworth County residents is voluntary in nature, and is not intended to mandate participation by unwilling or unable neighbors in dust control.

1. Definitions:

- a. Dust Patch – A section of public gravel roadway (not less than 300') in which dust control is applied to abate the dust caused by the normal degradation of the gravel.
- b. Chemical Control – Application of chemical, primarily magnesium chloride, to gravel roadways to reduce dust
- c. Chip-Seal Patch – Application of an initial rock base and double chip-seal coat to the existing gravel roadway for dust control only.
- d. Re chip-seal – Application of a 'maintenance' coating on existing chip-seal dust patch.
- e. Warranty – There is no warranty on this treatment by Leavenworth County. The lifespan on any dust patch is a function of weather, traffic, road base, etc... These variables are outside the control of the department and therefore performance cannot be guaranteed for any length of time.
- f. Chip-Seal Maintenance schedule – Asphalt dust patch maintenance – Ideally a double chip-seal patch will be shot the first year, with a third seal the next year. After that a three to four year schedule of re-seals will help to keep the performance of the asphalt patch adequate.
- g. Mobilization – The process and associated cost to transport equipment to the site in preparation to execute the work.

2. **Chemical Dust Control:** Currently Leavenworth County offers residents the opportunity to participate in dust control through application of chemicals, by licensed, bonded, and permitted third party vendors. Under this program the resident will contact the vendor, who will inform the County Shop of the location and place the chemical onto the roadway. The anticipated lifespan of this treatment is through one summer season. After the season, the dust patch may need to be graded if deterioration, potholes, washboard, etc... becomes a concern for the traveling public.

- i. Material – Chemicals provided by vendor
- ii. Labor & Equipment – Chemical Distributor provided by vendor
- iii. Cost – Paid by resident directly to vendor

3. **Asphalt Dust Control (Chip Seal):** Under this program residents can pay for the cost to apply the following chip-seal dust patch:

- a. Initial Chip Seal Dust patch (22' to 24' wide)
 - i. Material
 1. 6" Compacted AB-3 Base
 2. Single Coat of MC-250 oil and chips for base course
 3. Single Coat (Second Seal) of MC-800 oil and chips for intermediate/wear course
 - ii. Labor & Equipment
 1. Mobilization

- 2. Road Grader & Water Truck
- 3. Oil Distributor & Chip Spreader
- 4. Pneumatic Rubber Tire Roller(s)
- iii. Costs – Participants shall pay 100% of the cost of materials (depending on size of patch) and a cost for labor and equipment. A ‘lump sum’ for this work of this type will be calculated by the County Engineer and published in the annual dust control notice.
- b. Re-Seal coatings
 - i. Material – Road Oil (MC or CRS depending on application) and cover chips
 - ii. Labor & Equipment – Chip Spreader, Oil Distributor, Pneumatic Roller
 - iii. Costs – Participants shall pay 100% of the material costs and as well as the costs for labor and equipment for the application as calculated by the County Engineer and published at a unit cost (lineal feet or area) in the annual dust control notice.
 - iv. The participant shall work to coincide with the Leavenworth County Shop asphalt maintenance schedule to minimize potential mobilization costs. (We would like to schedule re-seal to occur while performing routine maintenance on roads in the area, 3 to 4 years).

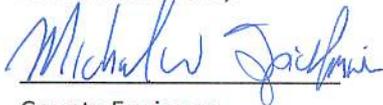
4. Maintenance of Chip-Seal Dust Patches

- a. Re-seal schedule – The participants shall be responsible for subsequent re-seal coats to ensure proper performance of the dust patch (typically 2 to 4 years depending on condition)
- b. Deferring maintenance beyond the recommendation of the County Shop will most likely result in the degradation to a point in which re-seal is no longer a viable option. If the patch deteriorates to this condition, it may need to be removed to prevent creating a hazard to the traveling public.

5. **Dust Control Notice:** The Public Works Department will provide dust control notice in the Official County Newspaper and on the Leavenworth County Website at a minimum. The PW staff may run the notice in additional newspapers as they deem appropriate. The dust control notice will go out in the spring, with a deadline of May 1st of each year. This deadline is necessary to effectively schedule and provide the service to the participants while avoiding conflict with the summer road maintenance program (which takes priority).

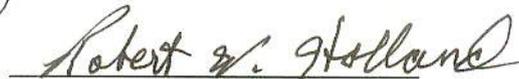
6. **The Dust Control Program** was created as a means to allow for residents to participate in dust control along gravel roads that impact their residence. This program is established as a voluntary service to the residents within the unincorporated portion of Leavenworth County under the authority of the Board of County Commissioners. This program may be suspended at any time by the BOCC in the event that availability of funding, resources, material, etc... is deemed to be prohibitive to operations.

Recommended by:


County Engineer

Leavenworth Board of County Commissioners


Chairman


1st District


2nd District