Rapid City has a history of poor air quality conditions associated with fugitive dust. Construction activities such as stripping topsoil, grading, blasting, excavating, dredging, ditching, demolition and street maintenance typically produce fugitive dust. Continuous operations such as material handling, storage and transportation also create fugitive dust. The following measures can be used to prevent or reduce fugitive dust:

- Construction entrances prevent trackout
- Use water to control dust
- Reclaim areas with hydroseeding
- Drill seed to restore vegetation
- Silt fences hold soil on the site
- Cover loads with a tarp