



## **Dust Management Plan**

## Knife River - Woodward & Vanier Sites

Activity	Agency Requirement	Control measures	Agency
Crusher dust emission	Must not equal or exceed an average of 20% opacity	Water Spray nozzels	Oregon DEQ - Air Permit
	Shall control all fugitive dust emissions associated with all operations (extraction,		
	processing and storage) on the site. The applicant shall control dust by appling water or		
	by seeding and/or mulching exposed surfaces.	Water Spray nozzels	Crook County Condition #13
Haul Roads			
	Fugitive Emissions - must take reasonable precautions to prevent fugitive particulate	Water Truck and or chemical	
	matter from becoming airborne from all site operations from which it may be generated	treatment	Oregon DEQ - Air Permit
	Shall control all fugitive dust emissions associated with all operations (extraction,		
	processing and storage) on the site. The applicant shall control dust by appling water or	Water Truck and or chemical	
	by seeding and/or mulching exposed surfaces.	treatment	Crook County Condition #13
Aggregate Stockpiles			
	Fugitive Emissions - must take reasonable precautions to prevent fugitive particulate		
	matter from becoming airborne from all site operations from which it may be generated	Water truck and or sprinklers	Oregon DEQ -Air Permit
	Shall control all fugitive dust emissions associated with all operations (extraction,		
	processing and storage) on the site. The applicant shall control dust by appling water or		
	by seeding and/or mulching exposed surfaces.	Water Truck and or sprinklers	Crook County Condition #13
Overburden Stockpiles			
	Fugitive Emissions - must take reasonable precautions to prevent fugitive particulate	Cover, seed and or mulch bare	
	matter from becoming airborne from all site operations from which it may be generated	soils	Oregon DEQ -Air Permit
	Shall control all fugitive dust emissions associated with all operations (extraction,		
	processing and storage) on the site. The applicant shall control dust by appling water or	Cover, seed and or mulch bare	
	by seeding and/or mulching exposed surfaces.	soils	Crook County Condition #13
	Erosion Prevention - The Permittee must stabilize soil and overburden stockpiles		
	through vegetation or other measures, such as mulching or covering, to prevent wind		
	and rain erosion at all times. Barren stockpiles and berms must be seeded in a cover	Cover, seed and or mulch bare	Oregon Dept. of Geology
	crop or otherwise secured against erosion,	soils	Condition #3 and #4
Reclamation backfill	Shall control all fugitive dust emissions associated with all operations (extraction,		
	processing and storage) on the site. The applicant shall control dust by appling water or		
	by seeding and/or mulching exposed surfaces.	Seed and or mulch bare soils	Crook County Condition #13

Sweeper
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soils
Cover, seed
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matter from becoming airborne from all site operations from which it may be generated   Seed and or mulch bare soils   Oregon DEQ -Air Permit
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Road sweeper will be used, whenever there is trackout onto county koad	Sweeper
Inactive overburden piles and reclaimed areas, if they are not seeded or planted by fall of each year will be covered with a layer of mulch to stabilize.	Mulching
estabished. Planting any fully reclaimed areas of the site in the Fall or early summer each year.	
Native Grass seed ground cover will be installed on overburden piles, berms and bare soils in late summer early fall planting season to become fully	Grass Seed or Planting
DEQ approved dust suppressant may be used on haul roads and relatively flat bare soils.	Chemical Treatment
operational log will be kept onsite for inspection and will document each time the truck is used and what areas covered	
overburden piles and any bare soil areas disturbed by mining that are dusty due to mining activity or wind blown dust, while the site is operational. An	
Water truck will be operational and used when necessary (Dust is visible) on haul roads, aggregate stockpiles and as needed during the placement of	Water Truck
Employees will inspect spray water system on crushing plant daily, while operating.	Water Spray Nozzels
Description	Control Measure