Dust Control Plan

The following pages will constitute the Dust Control Plan that will be followed for the _____ _____ project. Once fully completed and approved by the City of Great Falls, this Dust Control Plan will be posted on-site and supplied to all contractors and subcontractors.

Primary ("P") and Contingency ("C") Control Measures:

Every category and/or sub-category requires at least one Primary control measure ("P") if applicable and a Contingency control measure ("C") may be included. A Contingency control measure is the back-up or secondary action(s) that needs to immediately be implemented when the Primary control measure(s) fails to adequately control dust emissions at the named project.

Category A. Vehicles/Motorized Equipment

A.1 Unpaved Staging Areas, Unpaved Parking Areas, and Unpaved Material Storage Areas

☐ P ☐ C Apply water

☐ P ☐ C Pave (Choose one of the following): ☐ Beginning of Project* ☐ During Project* ☐ End of Project*

*Must specify additional primary control measure(s) that will be in place prior to paving

☐ P ☐ C Apply and maintain gravel, recycled asphalt, or other suitable material

☐ P ☐ C Apply and maintain dust suppressant(s), other than water

☐ P ☐ C Limit vehicle trips and vehicle speeds to no more than 15 miles per hour

_____

☐ P ☐ C Other: _____

Or, explain why this sub-category and its control measures are not applicable: _____

_____

A.2 Unpaved Access Areas/Haul Roads

☐ P ☐ C Apply water

☐ P ☐ C Pave (Choose one of the following): ☐ Beginning of Project* ☐ During Project* ☐ End of Project*

*Must specify additional primary control measure(s) that will be in place prior to paving

☐ P ☐ C Apply and maintain gravel, recycled asphalt, or other suitable material

☐ P ☐ C Apply and maintain dust suppressant(s), other than water

☐ P ☐ C Limit vehicle trips per road **AND** limit vehicle speeds

☐ C Cease operations, NOTE: This option CANNOT be considered a primary control measure

☐ P ☐ C Other: _____

_____

Or, explain why this sub-category and its control measures are not applicable: _____

_____

Category B. Disturbed Surface Areas

B.1 Before Active Operations Occur

☐ P ☐ C Pre-water site.

☐ P ☐ C Phase work to reduce the amount of disturbed surface area at any one time
Attach a map delineating the phases and their extent

☐ P ☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

B.2 During Active Operations

☐ P ☐ C Apply water or other suitable dust suppressant(s) other than water

☐ P ☐ C Apply water to maintain a soil moisture content at a minimum of 12% or at least 70% of the optimum soil moisture content for areas that have an optimum moisture content for compaction of less than 12%

☐ P ☐ C In conjunction with one of the above listed measures construct, fences of three-foot to five-foot wind barriers with 50% or less porosity adjacent to roadways or urban areas to reduce the amount of windblown material leaving the site

☐ C Cease operations, NOTE: This option CANNOT be considered a primary control measure

☐ P ☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

B.3 Stabilization for any inactive period, of any length, 24 hours per day, seven days per week including weekends, after work hours, and holidays.

☐ P ☐ C Apply water

☐ P ☐ C Apply and maintain surface gravel or dust suppressant(s) other than water

☐ P ☐ C Cover open storage piles with tarps, plastic or other materials such that wind will not remove the covering(s)

☐ P ☐ C Establish vegetative ground cover (landscaping)

☐ P ☐ C Other: A jobsite sign will be posted with after and non-work hours contact phone number_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

Category C. Bulk Material Handling/Storage

C.1 Off-Site Hauling onto Areas Accessible to the Public

☐ P **Required:** Install, maintain, and use a suitable trackout control device that controls and prevent trackout and/or remove particulate matter from tires and the exterior surfaces of haul truck and/or motor vehicles that traverse the site

☐ P **Required when a cargo compartment is loaded:** cover haul trucks with a tarp or other suitable closure **AND** load all haul trucks such that the freeboard is not less than 3 inches **AND** load all haul trucks such that at no time shall the highest point of the bulk material be higher than the sides, front, and back of the cargo container area **AND** prevent spillage or loss of bulk material from holes or other openings in the cargo compartment

☐ P **Required when a cargo compartment is empty:** cover haul trucks with a tarp or other suitable closure **OR** clean the interior of the cargo compartment before leaving the site

☐ C Apply water to the top of the load

☐ C Apply dust suppressant(s) other than water to the top of the load

☐ C Cease operations

☐ C Other: _____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

C.2 Hauling/Transporting within the Boundaries of the Work Site but not crossing an Area Accessible to the Public

☐ P ☐ C Limit vehicle speed to 15 miles per hour or less while traveling on the work site

☐ P ☐ C Apply water to the top of the load

☐ P ☐ C Apply dust suppressant(s) other than water to the top of the load

☐ P ☐ C Cover haul trucks with a tarp or other suitable closure

☐ C Cease operations, NOTE: This option CANNOT be considered a primary control measure

☐ P ☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

C.3 Hauling/Transporting within the Boundaries of the Work Site and crossing and/or accessing an Area Accessible to the Public

☐ P **Required:** Load all haul trucks such that freeboard is not less than 3 inches **AND** load all haul trucks such that at no time shall the highest point of the bulk material be higher than the sides, front, and back of the cargo container area **AND** prevent spillage or loss of bulk material from holes or other openings in the cargo compartment **AND** install suitable trackout control device.

NOTE: The following options CANNOT be considered for a primary control measure.

☐ C Cease operations

☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable – there will be no transporting accessible to the public on this jobsite: _____
_____

C.4 Bulk Material Stacking, Loading, and Unloading Operations

☐ P **Prior to** stacking, loading, and unloading, **mix** material with water
AND
While stacking, loading, and unloading, **apply** water

Note: These following options CANNOT be considered for a primary control measure.

☐ C Cease operations

☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

C.5 Open Storage Piles

☐ P ☐ C Cover open storage piles with a tarp, plastic, or other material

☐ P ☐ C Apply water to maintain soil moisture content at a minimum of 12% or maintain at least 70% of the optimum soil moisture content, for areas that have an optimum moisture content for compaction of less than 12%

☐ P ☐ C Maintain a visible crust

☐ P ☐ C In conjunction with the two measures above, construct and maintain wind barriers, storage silos, or a three-sided enclosure with walls, whose length is no less than equal to the pile length, whose distance from the pile is no more than twice the height of the pile, whose height is equal to the pile height, and whose porosity is no more than 50%

☐ P ☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

Category D. Trackout, Carry-out, Spillage, and Erosion

D.1 Trackout Control Device

☐ P **Required:** Install at all exits to an area accessible to the public at least one of the following:

(Choose all that apply)

☐ gravel pad ☐ grizzly or rumble grate ☐ wheel wash system ☐ paved area

☐ C Cease operations, NOTE: This option CANNOT be considered a primary control measure.

☐ P ☐ C Other: _____

_____

Or, explain why this sub-category and its control measures are not applicable: _____

_____

D.2 Cleaning

Trackout/carry-out must be cleaned up immediately if trackout/carry-out extends along an area accessible to the public including curbs, gutters, and sidewalks.

All trackout/carry-out must be cleaned up no later than the end of the workday (End of Work Day is the end of a working period that may include one or more work shifts. If working 24 hours a day, the end of a working period shall be considered no later than 8:00 p.m.).

☐ P ☐ C Operate a street sweeper or wet broom with sufficient water and at the manufacturer's recommended speed (e.g. kick broom, steel bristle broom, Teflon broom, vacuum)

☐ P ☐ C Manually sweep-up deposits

☐ P ☐ C Other: _____

_____

Or, explain why this sub-category and its control measures are not applicable: _____

_____

Category E. Weed Abatement by Discing or Blading

E.1 **Disturbance Operations**

☐ P **Required:** Pre-water site **AND** apply water during weed abatement by discing or blading

Note: The following options CANNOT be considered for a primary control measure.

☐ C Cease operations

☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

Category F. Blasting Operations

☐ P **Required:** Pre-water **AND** maintain surface soils in a stabilized condition where support equipment and vehicles will operate

☐ P ☐ C Apply water

☐ P ☐ C Apply and maintain dust suppressant(s) other than water

☐ C Other, NOTE: This option CANNOT be considered a primary control measure. _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

Category G. Demolition Activities

☐ P **Required:** Apply water demolition debris immediately following demolition activity
AND
Required: Apply water and to all disturbed soil surfaces immediately following demolition activity

Note: The following options CANNOT be considered for a primary control measure.

☐ C Thoroughly clean debris from paved and other surfaces following demolition activity

☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

Category H. Wind-Blown Dust

☐ P **Required:** Ensure that all control measures and requirements of this Dust Control Plan are implemented and maintained

☐ P ☐ C Cease operations for the duration of the wind event and stabilize work area maintain a Soil crust

☐ P ☐ C Other: _____
_____

Or, explain why this sub-category and its control measures are not applicable: _____
_____

Category I. Water

Soil Rating: ☐ **Severe** ☐ **Moderate**

Soil Texture Rating	Project Phase – Site Clearing/Removal of Vegetation/Debris/Demolition	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	500 - 1,000 gallons per day
	2-10 acres	1,000 - 5,000 gallons per day
	10-100 acres	5,000 – 50,000 gallons per day
	> 100 acres	> 50,000 gallons per day
Moderate (all other classification)	0-2 acres	300 - 600 gallons per day
	2-10 acres	600 - 3,000 gallons per day
	10-100 acres	3,000 – 30,000 gallons per day
	> 100 acres	> 30,000 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Mass Grading	
	Minimum Water Available	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	5,000 gallons per acre per day and 30 gallons per cubic yard of material moved	10,000 gallons per acre per day and 30 gallons per cubic yard of material moved
Moderate (all other classification)	5,000 gallons per acre per day and 30 gallons per cubic yard of material moved	10,000 gallons per acre per day and 30 gallons per cubic yard of material moved

Average Daily Disturbance in Acres _____ Number of Gallons per day _____
Daily Minimum Water Availability _____
(Number of Acres Disturbed) x (Number of Gallons per acre per day)

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Underground Utilities	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	500 - 1,000 gallons per day
	2-10 acres	1,000 - 5,000 gallons per day
	10-100 acres	5,000 – 50,000 gallons per day
	> 100 acres	> 50,000 gallons per day
Moderate (all other classification)	0-2 acres	300 - 600 gallons per day
	2-10 acres	600 - 3,000 gallons per day
	10-100 acres	3,000 – 30,000 gallons per day
	> 100 acres	> 30,000 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day_____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Unpaved Access Areas/Haul Road	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	375 - 750 gallons per day
	2-10 acres	750 – 3,500 gallons per day
	10-100 acres	3,500 – 35,000 gallons per day
	> 100 acres	> 35,000 gallons per day
Moderate (all other classification)	0-2 acres	225 - 400 gallons per day
	2-10 acres	400 – 2,250 gallons per day
	10-100 acres	2,250 – 22,500 gallons per day
	> 100 acres	> 22,500 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Vertical/Paved (This pertains to Dust Control during the vertical phase of the project)	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	250 - 500 gallons per day
	2-10 acres	500 – 2,500 gallons per day
	10-100 acres	2,500 – 25,000 gallons per day
	> 100 acres	> 25,000 gallons per day
Moderate (all other classification)	0-2 acres	150 - 300 gallons per day
	2-10 acres	300 – 1,500 gallons per day
	10-100 acres	1,500 – 15,000 gallons per day
	> 100 acres	> 15,000 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Staging/Parking Areas/Storage Areas Including landscaping installation	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	375 - 750 gallons per day
	2-10 acres	750 – 3,500 gallons per day
	10-100 acres	3,500 – 35,000 gallons per day
	> 100 acres	> 35,000 gallons per day
Moderate (all other classification)	0-2 acres	225 - 400 gallons per day
	2-10 acres	400 – 2,250 gallons per day
	10-100 acres	2,250 – 22,500 gallons per day
	> 100 acres	> 22,500 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Structure Excavation (Includes stem walls, footings, culverts, abutments, caissons)	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	500 - 1,000 gallons per day
	2-10 acres	1,000 - 5,000 gallons per day
	10-100 acres	5,000 – 50,000 gallons per day
	> 100 acres	> 50,000 gallons per day
Moderate (all other classification)	0-2 acres	300 - 600 gallons per day
	2-10 acres	600 - 3,000 gallons per day
	10-100 acres	3,000 – 30,000 gallons per day
	> 100 acres	> 30,000 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Soil Texture Rating	Project Phase – Fine Grading	
	Total Acres Disturbed	**Minimum Water Available**
Severe (clay, silty clay, sandy clay)	0-2 acres	500 - 1,000 gallons per day
	2-10 acres	1,000 - 5,000 gallons per day
	10-100 acres	5,000 – 50,000 gallons per day
	> 100 acres	> 50,000 gallons per day
Moderate (all other classification)	0-2 acres	300 - 600 gallons per day
	2-10 acres	600 - 3,000 gallons per day
	10-100 acres	3,000 – 30,000 gallons per day
	> 100 acres	> 30,000 gallons per day

Average Daily Disturbance in Acres _____ Number of Gallons per day _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Import/Export Operations

Number of Yards involved in this Phase _____ Number of days for Operation_____

Number of Yards Imported/Exported x 30 gallons of water per yard = _____
(Total gallons required)

Total Gallons required divided by number of days = _____

Supply	Quantity and Size	Application	Quantity and Size
☐ Metered Hydrant		☐ Hose	
☐ Water Tower		☐ Water Truck	
☐ Water Pond		☐ Water Pull	
☐ Off-Site		☐ Water Buffalo	
☐ Other_____		☐ Other_____	

Contact information of person who completed this document:

Name and Title: _____

Signature: _____

Date: _____

Phone Number: _____

Email: _____

Contact information of person(s) who are responsible for executing this document onsite:

Name and Title: _____

Signature: _____

Date: _____

Field Phone Number: _____

Alternative Phone Number: _____

Name and Title: _____

Signature: _____

Date: _____

Field Phone Number: _____

Alternative Phone Number: _____