



City of Rancho Cucamonga

BUILDING AND SAFETY SERVICES DEPARTMENT

10500 Civic Center Drive • Rancho Cucamonga, CA 91730

Tel: (909) 477-2710 • Fax: (909) 477-2711 • www.CityofRC.us

DUST CONTROL MEASURES

The City of Rancho Cucamonga exhibits an extreme concern for its citizens regarding dust control. Our city has several windy days each year. Air pollution remains a significant health concern in many parts of California. The health impact and nuisance potential of uncontrolled dust are a recognized concern for all whom live and work in this city. For this reason, dust control measures have been established and will be strictly enforced.

The City has been receiving many complaints about the dust problems. It is the responsibility of all builders working in the City of Rancho Cucamonga to maintain effective dust control on their projects at all times. The legal requirements for dust control in the City are contained in the City Municipal Code. Full compliance with dust control measures is required at all times.

At the beginning of construction, while the initial excavating and fill is in progress, water trucks are required to be active on the site at all times to insure proper dust control. Once rough grading has been completed, permanent soil stabilization shall be applied to all graded areas.

Please advise all of your employees of the urgency of abatement of dust nuisances by proper and timely use of control measures not only during normal construction hours but also, on a 24-hour basis during periods of anticipated or actual high winds.

The City seeks your cooperation in this matter. Failure to comply adequately with dust control measures may result in **job shut down, citation and/or other appropriate enforcement action.**

The following is a list of guidelines, which is not only required by the Uniform Building Code, Chapter 33, and the city's Municipal Code, but also strictly enforced by the AQMD (Air Quality Management District).

All construction sites must have an adequate dust control plan. In large projects, an approved plan is required by AQMD. This plan must be implemented as soon as the job begins.

AQMD's Rule 403 states that construction sites must control "Fugitive Dust" (man-made, airborne dust) by using dust control measures listed in the tables attached. (See Tables 1, 2, and 3).

AQMD has implemented the "Best Available Control Measures". (See attached). These guidelines will guide you in obtaining a dust free construction site.

Contact Matthew Addington at 909/477-2710, ext. 4202 if you have any question regarding grading issues.



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Requirements:

A project contact sign is required to be posted at the entrance displaying the contact number of the Dust Control Supervisor and AQMD. Because dust control is required 24 hours a day, 7 days a week, regardless of construction status, it is especially important to identify the appropriate person to contact in case of a dust control problem.

Small operations are considered to be < 50 acres, or < 5,000 C.Y. of daily earth movement. (Use Table 1)

Large operations are defined as > 50 acres or 5,000 C.Y. of daily earth movement. (Use Table 2&3). These projects are required to provide AQMD with a Large Project Notification (Form 403 N).

Large operations are required to have a Dust Control Supervisor. This designated person must be available 24 hours a day and be able to be on site within 30 minutes of contact to implement the required dust control measures.

Earth which has run into the street by the means of vehicles tires is called "track out". Track out is prohibited when more than 25 feet from the entrance. A preventive track out device is required on large operations. Any track out is required to be removed within one hour of the end of each work day.

One water truck per every 5 acres of disturbed soil is required or more if the minimum is not sufficient.

For more information on Rule 403, or any further questions concerning dust control requirements, or would like some suggested methods or products available for dust control, you may contact AQMD at:

www.aqmd.gov



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DUST CONTROL MEASURES

TABLE 1

BEST (REASONABLY)* AVAILABLE CONTROL MEASURES FOR HIGH WIND CONDITIONS

FUGITIVE DUST SOURCE CATEGORY		<u>CONTROL MEASURES</u>
Earth-moving	(1A) (2A)	Cease all active operation; OR Apply water to soil not more than 15 minutes prior to moving such soil
Disturbed surface areas	(0B) (1B) (3B) (4B)	On the last day of active operations prior to a weekend, holiday, or any other period when active operations will not occur for not more than four consecutive days: apply water with a mixture of chemical stabilizer diluted to not less than 1/20 of the concentration required to maintain a stabilized surface for a period of six months; OR Apply chemical stabilizers prior to wind event; OR Apply water to all unstabilized disturbed areas 3 times per day. If there is any evidence of wind driven fugitive dust, Watering frequency increased to minimum of four times per day; OR Take actions specified in Table 2, Item (3c); Or Utilize any combination of control actions (1B), (2B), and (3B) such that, into all, these actions apply to all disturbed surface areas.
Unpaved roads	(1C) (2C) (3C)	Apply chemical stabilizers prior to wind event; OR Apply water twice [once] per hour; OR Install temporary coverings.
Open storage piles	(1D) (2D)	Apply water twice [once] per hour; Or Install temporary coverings.
Paved road track-out	(1E) (2E)	Cover all haul vehicles; OR Comply with the vehicles freeboard requirements of Section 23114 of the California Vehicle Code for both public and private roads.
All Categories	(1F)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 1 may be used.

* Measures in [brackets] are reasonably available control measures and only apply to sources not within the South Coast Air Basin.



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FUGITIVE DUST SOURCE CATEGORY		<u>CONTROL ACTIONS</u>
Earth-moving: Construction cut areas and mining operations:	(1c)	Conduct watering as necessary to prevent visible emissions from extending more than 100 feet beyond the active cut or mining area unless the area is inaccessible to watering vehicles due to slope conditions or other safety factors.
Disturbed surface areas (except completed grading area)	(2a/b)	Apply dust suppression in sufficient quantity and frequency to maintain a stabilized surface. Any areas which cannot be stabilized, as evidenced by wind driven fugitive dust must have an application of water at least twice per day to at least 80 [70] percent of the unstabilized area.
Disturbed surface areas: Completed grading areas	(2c)	Apply chemical stabilizers within five working days of grading completion; OR
Inactive disturbed surface areas	(2d)	Take actions (3a) or (3c) specified for inactive disturbed surface areas.
	(3a)	Apply water to at least water to at least 80 [70] percent of all inactive disturbed surface areas on a daily basis when there is evidence of wind driven fugitive dust, excluding any areas which are inaccessible to watering vehicles due to excessive slope or other safety conditions; OR
	(3b)	Apply dust suppressants in sufficient quantity and frequency to maintain a stabilized surface; OR
	(3c)	Establish a vegetative ground cover within 21 [30] days after active operations have ceased. Ground cover must be of sufficient density to expose less than 30 percent of unstabilized ground within 90 days of planting, and at all times thereafter; OR Utilize any combination of control actions (3a), (3b), and (3c) such that, in total, these actions apply to all inactive disturbed surface areas.

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DUST CONTROL MEASURES

TABLE 2 (CONTINUED)*

FUGITIVE DUST SOURCE CATEGORY		<u>CONTROL ACTIONS</u>
Unpaved Roads	(4a) (4b) (4c)	Water all roads used for any vehicular traffic at least once per every two hours of active operations [3 times per normal 8 hour work day]; OR Water all roads used for any vehicular traffic once daily and restrict vehicle speeds to 15 miles per hour; OR Apply a chemical stabilized surface.
Open storage piles	(5a) (5b) (5c) (5d)	Apply chemical stabilizers; OR Apply water to at least 80 [7] percent of the surface area of all open storage piles on a daily basis when there evidence of wind driven fugitive dust; OR Install temporary coverings ; OR Install a three-sided enclosure with wall with no more than 50 percent porosity which extend, at a minimum, to the top of the pile.
All Categories	(6a)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 2 may be used.

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DUST CONTROL MEASURES

TABLE 3

TRACK-OUT CONTROL OPTIONS
PARAGRAPH (d) (5) (B)

CONTROL OPTIONS

(1)	Pave or apply chemical stabilization at sufficient concentration and frequency to maintain a stabilized surface starting from the point of intersection with the public paved surface, and extending for a centerline distance of at least 100 feet and width of at least 20 feet.
(2)	Pave from the point of intersection with the public paved road surface, and extending for a centerline distance of at least 25 feet and a width of at least 20 feet, and install a track out control device immediately adjacent to the paved surface such that exiting vehicles do not travel on any unpaved road surface after passing through the track out control device.
(3)	Any other control measures approved by the Executive Officer and the U.S. EPA as equivalent to the methods specified in Table 3 may be used.



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HIGH WIND MEASURES

- (a) Apply a chemical stabilizer (to meet the specifications established by the Rule) Prior to wind events; or
- (b) Apply water once each hour; or
- (c) Stop all vehicular traffic.

RULE 403 IMPLEMENTATION HANDBOOK

BEST 403 AVAILABLE CONTROL MEASURES

The left column contains a listing of the sources of fugitive dust, which are intended for emission control under district Rule 403 and a listing of control measures and high-wind measures. The right column contains a description of the best available fugitive dust control measures for each of the sources.

Source: (1) Land Clearing/Earth-Moving

CONTROL MEASURES

DESCRIPTION

(A) Watering (pre-grading)

(1) Application of water by means of trucks, hoses and/or sprinklers prior to conducting any land clearing. This will increase the moisture content of the soils; thereby increasing its stability.

(2) Pre-application of water to depths of proposed cuts.

(A-1) Watering (post-grading)

(1) In active earth-moving areas water should be applied at sufficient frequency and quantity to prevent visible emissions from extending more than 100 feet from the point of origin.

(A-2) Pre-grading planning

(1) Grade each phase separately, timed to coincide with construction phase;



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or

(2) Grade entire project, but apply chemical stabilizers or ground cover to graded areas where construction phase begins grading phase ends.

(B) Chemical stabilizers

(1) only effective in area which are not subject to daily disturbances.

(2) Vendors can supply information on product application and required concentration to meet the specifications established by the Rule.

(C) Wind Fencing

(1) Three-to five-foot barriers with 50% or less porosity located adjacent to roadways or urban areas can be effective in reducing the amount of windblown material leaving a site. Must be implemented in conjunction with either measure (A-1 or (B).

(D) Cover haul vehicles

(1) Entire surface area of hauled earth should be covered once vehicle is full.

(E) Bedliners in haul vehicles

(1) When feasible use in bottom dumping haul vehicles.

HIGH WIND MEASURE

(a) Cease all active operations; or

(b) Apply water within 15 minutes to any soil surface which is being moved or otherwise disturbed.



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RULE 403 IMPLEMENTATION HAND BOOK

Source: (2) Unpaved Roads

CONTROL MEASURES

DESCRIPTION

(F) Paving

(1) Requires street sweeping/cleaning if subject to material accumulation.

(G) Chemical stabilization

(1) Vendors can supply information as to application methods and concentration to meet the specifications established by the Rule
(2) Not recommended for high volume or heavy equipment traffic use.

(H) Watering

(1) In sufficient quantities to keep surface moist.
(2) Required application frequency will vary according to soil type, weather conditions, and vehicular use.

(I) Reduce speed limits

(1) 15 mile per hour maximum. May need to be used in conjunction with watering or chemical stabilization to prevent visible emissions from crossing the property line

(J) Reduce vehicular trips

(1) Access restriction or redirecting traffic to reduce vehicle trips by a minimum of 60 percent.

(K) Gravel

(1) Gravel maintained to a depth of four inches can be an effective measures.
(2) Should only be used in areas where paving, chemical stabilization or frequent watering is not feasible.