

US EPA ARCHIVE DOCUMENT

MONTROSE – ON-SITE DUST CONTROL INSPECTION CHECK LIST

NAME: JAMES CULOTTA	DATE/TIME: 5-3-2013 7:45 AM
---------------------	-----------------------------

WEATHER/WIND CONDITIONS: CLEAR AND CALM WITH SLIGHT EASTWARD BREEZE, WARM, 66 DEGREES

Dust control procedures may include, (check all observed)

- Water as a dust suppressant.
- Only handle soils during low wind conditions. No loading during high wind conditions.
- Keep the soil piles covered at all times when not in use and limiting the amount of soil uncovered during loading.
- Manage soil piles to avoid steep sides or faces and minimize number of soil movements.
- Limit size of work area.
- Limit vehicular traffic and disturbances within work area.
- Load soil from the upwind side of the soil pile (i.e. west side if wind direction is easterly) or side farthest from the property line. – NOT OBSERVED

Observation of Dust Control Procedures:

Observations focused on soil screening activities. Soils screening is being performed as a project specification requirement to minimize large and/or angular soil material in the soil backfill for utility trenches. A screen Mobile 4400 was set up in the central area of the site. Stockpiles from the excavations were end-dumped with by a dump truck in the area north of the shaker. Material from the stock pile was loaded into the top of the shaker and the screened material was sprayed with water as it dropped from the screen. The soil was then taken by the loader to another stockpile south the shaker. The area around the screener and stockpiles was periodically sprayed with water. In addition, the initial soil material from the excavation was clayey and moist. Due to the moist nature of the excavated soils and the spraying of water described above, it appeared that dust was well controlled. Other stockpiles on the project were covered with heavy plastic held down by sand bags. At the time of my visit I did not see any dust being generated. Karl Neill of AECOM was monitoring the site with a handheld unit.

Dust Measurement System (Locations on page 2):	(Measurement/Time Measured) ¹
--	--

Upwind	0.023 mg/cu. m 7:15 am
Downwind	0.008 mg/cu. m 7:15 am
Exclusion zone handheld	0.037 mg/cu. m 07:45 am

Observation of Dust Measurement Procedures:

Use of stationary meters, one located on northwest corner (upwind) of property and one located on central east property line (downwind).

Use of a handheld dust monitoring device to measure dust at the site and in the exclusion zone.

Use of a windsock, placed in the central area of the site.

¹ The standard for dust control established by SCAQMD is no more than a 0.05 mg/m³ increase dust levels between upwind and downwind measurements of the construction activity measured downwind from the activity.

Mark on Figure below:

- A - Location of excavation (exclusion zone)
- B - Wind Sock
- C - Upwind Dust Monitor
- D - Downwind Dust Monitor
- E - Stockpiled Soils ----> General direction of wind during





Figure 1: Soil screening - stockpile from excavation north of shaker, shaker (red machine), and stockpile of screened soil south of shaker (distance).



Figure 2: Soil screening machine.



Figure 3: Loading shaker, note worker spraying soils as they fall from screen, note lack of dust.



Figure 4: Screened soil being dumped on stockpile, note lack of dust.