

Kronos Concrete
3405 Gaylord St., Detroit, MI
Fugitive Dust Control Plan

EXECUTIVE SUMMARY

The facility is equipped with a Ready Mix Concrete Re- Manufacturing Batch Plant (Portable). The plant has an estimated annual production capacity less than 200,000 cy/yr.

The batch plant consists of the following equipment:

- Pneumatically loaded silos for temporary storage of cement with fabric filters located on top of the silos for dust control when displaced air from pneumatic loading occurs;
- Outside storage of aggregate and sand;
- Conveyors to load sand and aggregate into the mixer;
- Scales to weigh raw materials fed to the mixer.

Concrete from this facility is composed of cement (stored in silos), cement supplement (fly ash, ash stored in silos), fine aggregate (sand) and coarse aggregates (gravel and stone). These materials are delivered to the plant by truck. The cement and cement supplement are directly transferred to silos via pneumatic transfer. The aggregate materials are transferred to elevated storage bins via a conveyor belts system. The material is transferred from the stock piles by a front end loader. See Figures 2 and 3 Site Features Maps for location of equipment.

Once the material is transferred to elevated bins, the constituents are fed by gravity to weigh hoppers, which combine the proper amounts of each material based on client specifications. The constituents are then conveyor in cement trucks and transported to various job sites.

Silos are equipped with fabric filters to contain dust during the silo loading process. The site uses water to minimize dust from the stock piles and vehicle/equipment traffic on site. The concrete batch process equipment has enclosed conveyors and water spray nozzles to minimize dust generation. A street sweeping operator is contracted to maintain the paved access road and the approach at West Jefferson. Inspections are conducted daily to identify sources of fugitive dust.

The site has two particulate and wind monitors that record conditions up wind and down wind from the site. The monitors have cellular modems that provide real time data to the site manager and the City of Detroit Buildings, Safety Engineering, and Environmental Department. If particulate concentrations exceed the permitted limit, the monitors send a notification to the site manager and the City of Detroit Buildings, Safety Engineering, and Environmental Department.

Inspections are performed daily to monitor particulate emissions from stockpiles and on site vehicle traffic. If the visual inspections or the particulate monitors indicate a particulate emission exceedance, the onsite manager has the authority to implement additional dust control measures including but not limited to:

- Additional water to stockpiles and onsite roads

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- Application of dust suppressant chemical to on site roads
- Additional street sweeping
- Repairs to water spray systems associated with the batch plant equipment
- Temporarily stopping operations