

## **1 Air Quality**

### **Sources:**

- Fuel burning engines;
- Fire; and
- Dust generation at borrow pit and on access roads.

### **Controls:**

- All activities on site must comply with the requirements of the Atmospheric Pollution Prevention Act (Act No. 45 of 1965) and/or the National Environmental Management: Air Quality Act (Act No. 39 of 2004);
- Burning of materials including wood, grass and refuse which emit visible smoke will not be permitted on construction sites and at borrow pits;
- Waste must be disposed, as soon as possible at a licensed municipal site. Waste must not be allowed to stand on site to decay, resulting in malodours and attracting vermin; and
- No open fires are to be allowed on site.

### **Maintenance:**

The Contractor will ensure that all vehicles and machinery are fitted with appropriate emission control equipment, are maintained frequently and serviced to the manufacturers' specifications.

### **Corrective Actions:**

- If monitoring results or complaints indicate inadequate compliance with the EMP, the source of the problem must be identified and existing procedures or equipment modified to ensure that the problem is rectified

## **2 Dust Control**

### **Potential Impacts:**

Dust and particulates from vehicle usage, mining, temporary stockpiles and land clearing affecting the surrounding community and site visibility.

### **Sources:**

- Clearing of vegetation and topsoil;
- Mining, grading/scraping and transport of material;
- Loading and unloading of trucks;
- Re-entrainment of deposited dust by vehicle movement; and
- Wind erosion from borrow pits, stockpiles and unsealed roads and surfaces.

### **Controls:**

- Speed limits must be enforced in all areas, including public roads and private property to limit the levels of dust pollution. Max speed of 40km/h maintained on the construction site;
- Dust must be suppressed on access roads, borrow pits and construction sites during dry periods by the regular application of water or a biodegradable soil stabilisation agent. Water used for this purpose must be used in quantities that will not result in the generation of run-off;
- Dust dispersion from mining and construction activities, unsurfaced roads,

spoil dumps and other construction locations will be limited and suppressed to the maximum extent practical;

- Spoil dumps will be positioned such that they are not vulnerable to wind erosion;
- Spoil and other dust-generating dumps which are left unused for 28 days or longer will be sprayed with water to control dust;
- Untared roads will be sprayed with water from a water cart to limit dust generation by mining and construction vehicles; and
- An appropriate freeboard will be maintained in trucks hauling dirt, sand, soil and other loose material when leaving the road reserve.

**Maintenance:**

- Roads must be sealed as soon as possible and maintained to ensure that dust from road or vehicle sources will not exceed prescribed levels; and
- Any cleared areas must be watered to ensure that dust levels are minimised prior to sealing or revegetation.

**Corrective Actions:**

If monitoring results or complaints indicate inadequate compliance with the EMP, the source of the problem must be identified and existing procedures modified to ensure that the problem is rectified.