EP 01074/21: Mineral extraction (of limestone) and operation of a mobile stone crusher, at Raisefields Ltd., Four Site Group, Ta' Zgamardi, Triq l-Imqabba

Dust Mitigation Plan

The Dust Mitigation Plan takes account of the potential for dust emissions from the following sources when the facility comes into operation:

- Quarrying activity;
- Mobile stone crusher;
- Residue stone / sand stockpiles; and
- Movement of vehicles to and from and within the site.

Proposed Dust Mitigation Measures

1. The area from which stone is to be extracted will be wetted in advance of the extraction works, using mist cannons and sprinklers.
2. The stone crusher to be installed on site will be of a model which is piped for dust suppression, complete with spray bars (the data sheet for the stone crusher envisaged has been submitted as supplementary information to the application).
3. Mist cannons will be installed in the area where the stone crusher is operating, to be employed daily (when the crusher is in operation) during the summer period (May to September, inclusive). Outside of this period, the mist cannons will be employed when the wind direction is north-westerly (having regard to the prevailing wind) and the wind speed is Force 2[1] (being between 4 – 6 knots or 7 - 11 km / hr) or higher, or when the wind speed is Force 4 (being between 11 – 16 knots or 20 - 29 km / hr) or higher, irrespective of the wind direction. The cannons will be relocated as the mobile crusher relocates within the site. The cannons will be positioned towards the crusher and the conveyer belts during the crushing of the material.
4. The sprinkler system will be installed around the perimeter of the site. Both the sprinklers and the mist cannons and will be operated manually when required. The wind conditions will be monitored daily.
5. As the excavation proceeds, the stone crusher will be positioned within the lowest level of the quarry void (as far as practicable), in order to shelter the crusher and reduce the spread of airborne dust outside of the site.
6. The residue stone / sand stockpiles will be covered with tarpaulin at all times during the year.

[1] With reference to the Beaufort Wind Scale

7. Mist cannons will be installed in the areas where residue stone / sand is stockpiled, to be employed daily during the summer period (May to September, inclusive). Outside of this period, the mist cannons will be employed when the wind direction is north-westerly (having regard to the prevailing wind) and the wind speed is Force 2 (being between 4 – 6 knots or 7 - 11 km / hr) or higher, or when the wind speed is Force 4 (being between 11 – 16 knots or 20 - 29 km / hr) or higher, irrespective of the wind direction. The cannons will be positioned towards the stockpiles.

8. As the excavation proceeds across the site, the stockpiles will be positioned within the lowest level of the quarry void (as far as practicable), in order to reduce the spread of airborne dust outside of the site.

9. The entrance to the site and the internal roads will be wetted down daily during the summer period (May to September inclusive). Outside of this period, the entrance to the site and the internal roads will be wetted down when the wind direction is north-westerly (having regard to the prevailing wind) and the wind speed is Force 2 (being between 4 – 6 knots or 7 - 11 km / hr) or higher, or when the wind speed is Force 4 (being between 11 – 16 knots or 20 - 29 km / hr) or higher, irrespective of the wind direction.

10. A wheel wash will be installed inside the access to the site (see layout plan attached). All vehicles leaving the site will utilise the wheel wash, in order to reduce dust entrainment on the road network.

The mitigation measures explained in this Dust Mitigation Plan will be put in place within six months of the permit being issued, or at the time of the coming into operation of the facility, if this is shorter than six months).