# Surface dust management audit Site: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Date conducted:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1 Ventilation Organisation |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 1.1 | The manager has appointed a Surface Ventilation Officer or the mine is exempt by written directive issued by the District Inspector. |  |  |
| 1.2 | The District Inspector was notified in writing of the appointment. |  |  |
| 1.3 | The Surface Ventilation Officer is appropriately trained and qualified. |  |  |
| 1.4 | Copies of the following reference material are readily available on site: MSI Act and Regulations WorkSafe Australia’s National Exposure Standards (NOHSC:1003) AS 2985 and/or AS 3640. |  |  |
| 1.5 | All records required by MSIA Reg. 9.6 are entered in the Mine Ventilation Log Book. |  |  |
| 1.6 | Water of acceptable quality is used for dust suppression. |  |  |
| 1.7 | Work environments have been assessed to determine potential dust hazards. |  |  |
| 1.8 | Employees have been educated on the hazards associated with the exposure to dust. |  |  |
| 1.9 | There is a programme to assess employee exposure to dust. |  |  |
| 1.10 | Dust samples are taken in accordance with required methods. |  |  |
| 1.11 | All significantly exposed employees are monitored on a routine basis. |  |  |
| 1.12 | Exposure assessment results are reported to all relevant personnel in an effective, timely and documented manner. |  |  |
| 1.13 | Workplace improvements havebeen made in response to dust exposure assessment results. |  |  |

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| 2 Blast Hole Drilling |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 2.1 | Blast hole drills are fitted with a dust control device to control dust during drilling. |  |  |
| 2.2 | Dust is effectively controlled during drilling of blast holes. |  |  |
| 2.3 | Precautions are taken to protect the drill hole grade control sampler from exposure to dust. |  |  |
| 2.4 | Each drill is fitted with an enclosed air-conditioned cabin to further protect the operator from dust exposure. |  |  |
| 2.5 | Drill cabin air conditioner is operable. |  |  |
| 2.6 | Air conditioner dust filters are regularly cleaned. |  |  |
| 2.7 | The dust seals around the doors and windows of each drill cabin are in good condition. |  |  |
| 2.8 | The interior of each drill cabin is in a clean condition. |  |  |
| 2.9 | Dust samples taken over the last year to evaluate drill operator exposure to dust are all below the exposure standard. |  |  |

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| 3 Sample Preparation |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 3.1 | Jaw crushers are connected to a dust extractor. |  |  |
| 3.2 | There is effective dust control during sample crushing. |  |  |
| 3.3 | Dust is controlled during sample splitting. |  |  |
| 3.4 | Pulverisers are connected to a dust extractor. |  |  |
| 3.5 | There is effective dust control during sample pulverising. |  |  |
| 3.6 | Each workstation where dust is produced has a dust capture enclosure connected to a dust extractor. |  |  |
| 3.7 | At workstations where dust is produced it is effectively extracted. |  |  |
| 3.8 | The air pressure in hand held airguns used for cleaning is adequately reduced to prevent excessive dust generation. |  |  |
| 3.9 | Compressed air for cleaning is used carefully within the dust capture enclosure so as not to generate dust in the workplace. |  |  |
| 3.10 | Compressed air is not used forcleaning where high risk hazardous substances are added or present in the sample. |  |  |
| 3.11 | The dust extraction system is maintained in an effective operating condition. |  |  |
| 3.12 | Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard. |  |  |

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| 4 Loading & Haulage |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 4.1 | Dust is controlled during truck loading. |  |  |
| 4.2 | Dust is controlled on haulage roadways. |  |  |
| 4.3 | Each piece of mobile plant is fitted with an enclosed air conditioned cabin to protect the operator from dust exposure. |  |  |
| 4.4 | The air conditioner is operable. |  |  |
| 4.5 | Air conditioner dust filters are regularly cleaned. |  |  |
| 4.6 | The dust seals around the door and windows of the cabin are in good condition. |  |  |
| 4.7 | The interior of each mobile plant cabin is in a clean condition. |  |  |
| 4.8 | Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard. |  |  |

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| 5 Crushing & Screening |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 5.1 | Dust control appliances are fitted at the primary crusher feed hopper. |  |  |
| 5.2 | Dust is effectively controlled at the primary crusher feed hopper during dumping. |  |  |
| 5.3 | Primary crusher is fitted with dust control appliance. |  |  |
| 5.4 | Dust is effectively controlled at the primary crusher. |  |  |
| 5.5 | Secondary crusher is fitted with dust control appliance. |  |  |
| 5.6 | Dust is effectively controlled at the secondary crusher. |  |  |
| 5.7 | Tertiary crusher is fitted with dust control appliance. |  |  |
| 5.8 | Dust is effectively controlled at the tertiary crusher. |  |  |
| 5.9 | Dust is controlled at the screens. |  |  |
| 5.10 | Dust is controlled at conveyor belt transfer points. |  |  |
| 5.11 | Dust is controlled on return belts. |  |  |
| 5.12 | Inspect the condition of conveyor return belts and condition of belt scrapers or cleaners where they are fitted. Refer to MSIR 9.10 and 9.12(1)(a). |  |  |
| 5.13 | Dust is controlled at stockpiles. |  |  |
| 5.14 | Dust is controlled at conveyor feed points. |  |  |
| 5.15 | Dust is controlled within a stockpile tunnel. |  |  |
| 5.16 | Spillage and dust build up on and around the plant and equipment is kept under control. |  |  |
| 5.17 | Crusher operators are protected from dust by an enclosed airconditioned cabin. |  |  |
| 5.18 | The air conditioner fitted is operable. |  |  |
| 5.19 | Air conditioner dust filters are regularly cleaned. |  |  |
| 5.20 | The interior of each crusher control cabin is in a clean condition. |  |  |
| 5.21 | Crusher control cabins are effectively sealed to prevent dust entry. |  |  |
| 5.22 | Dust samples taken over the last year to evaluate crusher operator exposure to dust are all below the exposure standard. |  |  |

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| 6 Stockpiling & Transport |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 6.1 | Dust is controlled on stockpile roadways. |  |  |
| 6.2 | Dust is controlled at the stockpile stacker. |  |  |
| 6.3 | There is a means available to control dust off stockpiles during strong winds. |  |  |
| 6.4 | Dust is controlled at the stockpile reclaimer. |  |  |
| 6.5 | Dust is controlled at the stockpile draw chutes in the load out tunnel. |  |  |
| 6.6 | Dust is controlled within the stockpile load out tunnel. |  |  |
| 6.7 | Dust is controlled at conveyor belt transfer points. |  |  |
| 6.8 | Dust is controlled at screens. |  |  |
| 6.9 | Dust is controlled during train loading and unloading operations. |  |  |
| 6.10 | Dust is controlled during road train loading and unloading operations. |  |  |
| 6.11 | Dust is controlled at the ship loader. |  |  |
| 6.12 | Spillage and dust build-up on and around plant and equipment is kept under control. |  |  |
| 6.13 | Operators are protected from dust by an enclosed airconditioned cabin. |  |  |
| 6.14 | Operator control cabins are effectively sealed to prevent dust entry. |  |  |
| 6.15 | The interior of each operator control cabin is in a clean condition. |  |  |
| 6.16 | The operator control cabin air conditioner is operable. |  |  |
| 6.17 | Air conditioner dust filters are regularly cleaned. |  |  |
| 6.18 | Dust samples taken over the last year to evaluate stockpile operator exposure to dust are all below the exposure standard. |  |  |

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| 7 Milling & Processing |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 7.1 | Each crushing equipment is fitted with a dust control appliance. |  |  |
| 7.2 | Dust is effectively controlled at each crusher. |  |  |
| 7.3 | Dust is effectively controlled at each mill and grinder. |  |  |
| 7.4 | Dust is controlled at each screen. |  |  |
| 7.5 | Dust is controlled at conveyor feed points. |  |  |
| 7.6 | Dust is controlled at conveyor belt transfer points. |  |  |
| 7.7 | Dust is controlled at bucket elevators. |  |  |
| 7.8 | Bagging and packaging machines are connected to a dust extraction system. |  |  |
| 7.9 | Dust is effectively controlled at each bagging machine. |  |  |
| 7.10 | Dust is effectively controlled at each packaging machine. |  |  |
| 7.11 | Dust build up on internal building structures is kept under control. |  |  |
| 7.12 | Spillage and dust build-up on and around plant and equipment is kept under control. |  |  |
| 7.13 | Dust samples taken over thelast year to evaluate plantoperator exposure to dust are all below the exposure standard. |  |  |
| 7.14 | A site wide risk assessment hasestablished the tasks which require respiratory protection devices to be used. |  |  |

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| 8 Personal Protective Equipment |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 8.1 | A site wide risk assessment has established the tasks which require respiratory protection devices to be used. |  |  |
| 8.2 | There is a programme to select the appropriate respiratory protection for a person. |  |  |
| 8.3 | Respiratory protection devicesare freely available andemployees are aware of where and how to obtain the correct device. |  |  |
| 8.4 | Employees are fit tested for the type of respirator issued to them. |  |  |
| 8.5 | Employees are required to be clean shaven where required to wear a half, full or disposable face piece respiratory protection. |  |  |
| 8.6 | Employees are trained in the use of the respirator provided. |  |  |
| 8.7 | There is a maintenance programme for non disposable respiratory protection. |  |  |
| 8.8 | Respirators are cleaned, maintained and stored as specified in the maintenance program. |  |  |

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| 9 Exploration Drilling |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 9.1 | Each drill is fitted with a dust control appliance. |  |  |
| 9.2 | Dust is effectively controlled during drilling. |  |  |
| 9.3 | Dust is controlled during sample collection. |  |  |
| 9.4 | Drill hole samplers are protected from exposure to dust during collection of samples. |  |  |
| 9.5 | Dust samples taken over the last year to evaluate operator exposure to dust are all below the exposure standard. |  |  |

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| 10 Abrasive Blasting |
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| **Point** | **Standard** | **Standard met** | **Comments** |
| 10.1 | Material used for abrasive blasting contains less than 5% silica by weight. |  |  |
| 10.2 | Material used for abrasiveblasting contains less than 1%of any one of the following -arsenic, beryllium, lead, cadmium, nickel, antimony, cobalt, chromium or tin. |  |  |
| 10.3 | Material used for abrasive blasting contains no radioactive substance as defined in the Radiation Safety Act 1975. |  |  |
| 10.4 | Recycled dry abrasive blasting material is treated to remove respirable dust or other adverse material. |  |  |
| 10.5 | The person operating the abrasive blasting machine wears an airline respirator of the hood or helmet type and the appropriate PPE. |  |  |
| 10.6 | The air supply to the airline respirator is of acceptable breathable quality, pressure and temperature. |  |  |
| 10.7 | The abrasive blasting machine is fitted with an automatic cut-off device. |  |  |

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