| | Data and info | rmation | | Judgement | | | | Action (by permitting |
|--|--|--|---|-------------------------|---------------------------------|-------------------|--|---|
| Receptor | Source | Harm | Pathway | Probability of exposure | Consequence | Magnitude of risk | Justification for magnitude | Risk management |
| What is at risk? What do I wish to protect? | What is the agent or process with potential to cause harm? | • | How might the receptor come into contact with the source? | | consequences be if this occurs? | | | How can I best manage the risk to reduce the magnitude? |
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | Releases of particulate matter (dust) . | | Air transport then inhalation. | Medium | Medium | Medium | Permitted waste types are non hazadous soils and have a low potential to produce bioaerosols. The activities may produce dust from movement of vehicles and tipping operations especially in dry and also windy weather. | Prevailing wind direction for the area is predominantly west throughout the year so reduces the probability of exposure to schools and restaurant. Delay tipping of soil if very windy. Clean vehicle wheels at the end of the working day to reduce dust. |
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | Releases of particulate matter (dust) . | Nuisance - dust on cars, clothing etc. | Air transport then deposition. | Medium | Low | Medium | As above. Local residents often sensitive to dust. | As above. |

| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | Litter. | | Air transport then deposition. | Low | Low | | litter, however permitted waste types have low litter potential. Windy | Waste inspection and waste acceptance procedures to ensure soils are uncontaminated. Litter collection around site if required or quarantine area if soils are found to be contaminated with litter. |
|--|------------------------|----------------------------|---|----------|----------|----------|--|--|
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | Mud and waste on road. | accidents. | Tracked on tyres of vehicles entering and leaving the site and from loads which are not properly contained. | Medium | Medium | Medium | sensitive to mud on roads. | As above. Appropriate measures could include clearing waste, litter and mud arising from the activities from affected areas outside the site. Clean vehicles wheels at end of working day. |
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | Odour . | Nuisance, loss of amenity. | Air transport. | Very low | Very low | Very low | | Controlled by waste acceptance procedures. Check to see if soils look to be contaminated and check for any odour. Prevailing wind direction for the area is predominantly west throughout the year so reduces the probability of exposure to schools and restaurant. |
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | Noise and vibration. | amenity, loss of | Noise through the air and vibration through the ground. | | Medium | Medium | Local residents often sensitive to noise and vibration. | Vehicle movements limited to a maximum of 10 loads per day in accordance to planning conditions and Transport Asessment. Vehicle movements closely monitored with log of movements. |

| | birds. | Harm to human health from waste carried off site and faeces. Nuisance and loss of amenity | Air transport and over land. | Low | Low | Very low | | Controlled by waste acceptance procedures. Soils will be uncontaminated and will be not accepted onsite if found otherwise. |
|---|--------|--|------------------------------|-----|--------|----------|---|--|
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S Local Environment: Liley Wood, 100m North & Protected Habitat-Deciduous Woodland Up to 50m from site | | Harm to human health. Nuisance, loss of amenity. | Air transport and overland. | Low | Medium | Low | attract pests. | Controlled by waste acceptance procedures. Risk to human health and environment very low as only uncontaminated soils will be accepted on site. |
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S Local Environment: Liley Wood, 100m N & Protected Habitat-Deciduous Woodland Up to 50m from site | | If waste contaminated water is washed off site it may contaminate buildings, gardens, watercourses and natural habitats. | Flood waters . | Low | Low | Low | waste washed off site will add to the volume of the local post-flood clean up workload, rather than the hazard. | The written management system will identify and minimise risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances (will include flood risk management). Flood risk assessment completed (2019) identifying site in flood zone 1- low probability of flooding and low risk of groundwater and surface water flooding on and off site. |

| Local human population and /or livestock gaining unauthorised access to the waste operation. Local human population. Commercial premises- Windy Bank Farm 180m NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW. Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S | | | Direct physical contact . | Medium | Medium | Medium | therefore only a low risk from the actual waste. However there could be stockpiles that people could climb or void spaces that people could fall into and wastes have a higher risk in wet conditions where deep mud could form. | The written management system will identify and minimise risks from unauthorised access and site security measures identified to prevent such access. Soil will be spread as soon as it arrives on site (whilst adhering to waste acceptance procedures) which reduces the risk of direct contact with stockpiles. Machinery will have contingency plans in place for maintenance. |
|---|---|---|---|--------|--------|--------|--|--|
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S Local Environment: Liley Wood, 100m N & Protected Habitat-Deciduous Woodland Up to 50m from site | Arson and/ or vandalism causing the release of polluting materials to air (smoke or fumes) and firewater or spillage of polluting liquids to water or land. | irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/ vandals. | and contaminated firewater by direct run-off from and via surface water drains | Low | Medium | Low | | The written management system identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances (will include fire and spillages). Soil accepted will only be uncontaminated so release of polluting materials to air is low. |
| Local human population. Commercial premises- NW, Mone Bros Temple Quarry 280m SW, Restaurant 780m N. Residential- 142m NE, 183m W, 570m NW, 740m NW, Windy Bank Farm 180m Schools- Happy Hounds HQ 850m S, Grange Moor Primary 1330m S Local Environment: Liley Wood, 100m N & Protected Habitat-Deciduous Woodland Up to 50m from site | Accidental fire causing realease of polluting materials to air (smoke or fumes), water or land. | irritation, illness and nuisance to local population. Injury to staff, fire fighters. Pollution of water or | and contaminated | Low | Medium | Low | As above. | As above. |

| All surface waters close to and downstream of site. Liley Clough- small stream 180m North of site leading to the River Calder 2,160m North of site | | and invertebrate kill | | Low | Low | | inert so harm is likely to be temporary and reversible. | No liquids on site - all waste is solid and inert. Controlled by waste acceptance procedures, only uncontaminated soils. No liquids accepted on site. Flood Risk Assessment identifies the development will not increase the run-off rate from site and may reduce it. |
|--|--|--|---|-----|-----|-----|---|---|
| | waste and contaminated rainwater run-off | contaminated water is washed off site it | Surface waters, leachate from infiltration through the waste | Low | Low | | | No liquids accepted on site. Soil will be uncontaminated and controlled as per the waste acceptance procedures. Visual checks, detailed in the written management system will check to ensure rain water run off from site does not cause solids to be discharged from the site to any water courses. |
| Groundwater Liley Clough- small stream 180m North of site leading to the River Calder 2,160m North of site | Leachate from waste and contaminated rainwater run-off from waste e.g. Suspended solids. | | Transport through soil/groundwater then extraction at borehole. | Low | Low | Low | Permitted wastes unlikely to contaminate groundwater. | The Site Condition Report addresses condition of site. Soil unlikely to contaminate groundwater as only uncontaminated soils will be accepted on site as per the waste acceptance procedures. |

| Protected habitat- deciduous woodland north of site, up to 50m from site | Any | sites through contamination, smothering, disturbance etc. | Any | Medium | Medium | Medium | and deterioration of protected habitats. | concerns and identifies the presence of protected species and notable habitats within 2km of the site. The waste to be accepted are non-hazardous soils and as such pose no significant risk to habitats. In addition operations will be carried out taking the sensitive nature of the deciduous woodland into account. |
|--|-----|---|-----|--------|--------|--------|--|--|
| Local Wildlife Site- Liley Wood | Any | Harm to protected sites through contamination, smothering, disturbance etc. | Any | Medium | Medium | Medium | | The ecological appraisal (Envirotech, 2018), did not identify any additional issues. It also addresses any concerns and identifies the presence of protected species and notable habitats within 2km of the site. The waste to be accepted are non-hazardous soils and as such pose no significant risk to habitats. In addition operations will be carried out taking the sensitive nature of the local wildlife site into account. |

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Residual risk

What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment).

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