

Risk Assessment No	RA 65	Date Completed	30 th January 2026	Site	Techemet Ltd, Tamworth, England
Assessment Title	Environmental				

Persons at Risk	Operatives, Associated Personnel, Site Staff and the Public
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Task / Item	Hazards associated with the Task/Item	Hazardous Events (worst case)	Control Measure Actions in Place	Risk Assessment without control measures			Risk Assessment with control measures			Required Control Measures and Actions.
				Li	Se	RR	Li	Se	RR	
Dust caused by the escape of catalyst powder. Refractory Ceramic Fibre escape. <i>(During Grading, Main and Rear Platform, Plasma cutting, Bandsaw and Sampling/ testing process)</i>	Nuisance due to visible dust spread from the site possibly causing soiling of adjacent properties. Potential health risks. Possible impact on local air quality around plant. Potential cause of complaints.	Airborne transmission affecting people living or working near to or visiting the Site	- All processing undertaken within building with local exhaust ventilation and dust collection equipment in place for the dustiest operations. - Activities shall be managed and operated in accordance with a management system that will include inspection and maintenance. - Root cause analysis shall be undertaken by site management following an incident. By completing the below forms: - GEN147 – Corrective Action Request form - GEN397 – Corrective Action Request register - Once the root cause of the incident has been identified, procedures on site shall be reviewed and amended accordingly to ensure low likelihood of further incidents. - Local Exhaust Ventilations on site inspected by an approved contractor as per legal requirements 'GEN409 – LEV Location & Service register' - SSOW14 – Maintenance, followed by competency assessment. Details changing of filters for LEV's when pressure gauge has reached maximum limit.	3	3	9	2	3	6	

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Discharge of spilled catalyst powder via surface water.	Pollution of receiving water with contaminated surface water runoff.	Catalyst powders discharged to receiving water having been washed into external yard drains via rainfall runoff	- All processing undertaken within building with impermeable concrete hardstanding and no internal surface drainage. - Throughout the day a ride on electrically powered floor sweeper is used to clean the processing area's floor to recover any spilled powders. - The surface water discharge flows through an oil water separator before leaving site. Catalyst contamination of surface water is likely to be greatly reduced by sedimentation within the oil water separator. This is monitored and regularly emptied in accordance with a management system (will include inspection and maintenance). - Scrap shell contamination check completed via Tech Check daily	3	3	9	2	3	6	
Task / Item	Hazards associated with the Task/Item	Hazardous Events (worst case)	Control Measure Actions in Place	Risk Assessment Without control measures			Risk Assessment With control measures			Required Control Measures and Actions.
				Li	Se	RR	Li	Se	RR	
Non-permitted waste receipt.	Acceptance of non-permitted waste materials could result in non-permitted wastes being stored and treated at the site.	Non-permitted materials discharged to receiving water having been washed into external yard drains via rainfall runoff	- In the event that unauthorised waste is delivered to site the waste would be segregated and stored in a designated quarantine /isolation area prior to removal from site following the waste acceptance procedure (Ref. EMS section 3.3). - GUID78 – Understanding Waste Duty of Care, Waste Transfer Notes, HWCN – <i>details permitted wastes accepted</i>	3	3	9	2	3	6	
Vandalism and security breach	Escape of wastes from	Wastes, litter and	Perimeter security fencing (2.4m high steel palisade);	3	4	12	2	4	8	

resulting in escape of waste	site resulting in pollution of local area and litter in the local community.	packaging escapes through broken fence or through open gates.	24/7 CCTV covering inside the processing buildings and outside covering the main fence lines and security gates. - Security gates to the site entrances remain locked when not in use, and are controlled by fob access or intercom authorisation only - Security patrols are undertaken during the evening, weekends and bank holidays when the site is not operating. - Weekly perimeter inspection completed via Tech Check							
Litter / windblown waste packaging	Nuisance caused by litter. Potential cause of complaints.	Litter and packaging blown over fence or through open gates.	- Good waste segregation and provision of lidded waste containers (wheelie bins and skips) - Designated Operative is assigned to litter pick perimeter and surrounding area - Cardboard and general waste scheduled collection by Briers	3	3	9	1	3	3	
Task / Item	Hazards associated with the Task/Item	Hazardous Events (worst case)	Control Measure Actions in Place	Risk Assessment Without control measures			Risk Assessment With control measures			Required Control Measures and Actions.
Chemical spills e.g. fuel /oil spill from vehicles	Visible pollution of receiving waters	Rainfall runoff from external hardstanding washing spilled chemicals into surface water drainage.	- External surface water runoff discharges off site via a fuel oil separator. The separator is monitored and regularly emptied in accordance with a management system (will include inspection and maintenance). - CPRO65 – Spill Response plan - Scheduled spill response drills completed 6 monthly - Forklift trucks used on site powered by electricity or liquid petroleum gas. This limits the volume of hydrocarbon fluids needing to be stored and used on site	3	3	9	2	3	6	

			- All drums of potentially polluting liquids are stored internally within the processing area and in suitably bunded containment. - No drums of chemical products larger than 25 litres capacity are stored on site. 205 litre lidded metal drums are used to collect waste lab chemicals for offsite treatment and disposal. Waste oil is also stored in a 205 litre lidded metal drum prior to collection for offsite treatment and disposal - Site internal building inspection of containment takes place daily. Any damage found would result in the drums concerned being changed immediately - Spill kits are positioned near to the chemical stores and highlighted on <i>GEN197 Map for emergency services</i>. In the event of a spillage the emergency spill procedure would be followed - Arrangements made ad-hoc for chemical/ hazardous waste to be collected by approved contractor							
Noise from processing plant.	Nuisance noise around the Site. Potential cause of complaints.	People living and working near to or visiting the Site.	- Processing is undertaken within the building. The noisiest processes are isolated inside noise absorbing partitioning within the processing building. - Root cause analysis shall be undertaken by site management following an incident. Once the root cause of the recent incident has been identified procedures on site shall be reviewed and amended to ensure low likelihood of further incident due to the same cause. - Noise assessments are completed every 2 years by an approved contractor, any remedial action advised is taken accordingly	3	3	9	2	3	6	

Escape of odour from the Site	Nuisance for local community and adjacent residential and commercial properties. Potential cause of complaints.	People living and working near to or visiting the Site.	- Root cause analysis shall be undertaken by site management following an incident. Once the root cause of the recent incident has been identified procedures on site shall be reviewed and amended to ensure low likelihood of further incident due to the same cause. - Workplace exposure assessments are completed every 2 years by an approved contractor, any remedial action advised is taken accordingly - High speed doors installed, used as and when required	3	3	9	2	3	6	
Task / Item	Hazards associated with the Task/Item	Hazardous Events (worst case)	Control Measure Actions in Place	Risk Assessment Without control measures			Risk Assessment With control measures			Required Control Measures and Actions.
Exhaust gases from vehicles associated with traffic congestion near the Site or idling vehicle engines on Site	CO2 a greenhouse gas contributing to global warming; NOx contributes to acidification . Potential adverse impact on local air quality.	People living or working near to or visiting the Site when delivery vehicles are present.	- The arrival of vehicles on site is scheduled to avoid the delivery vehicles having to wait to unload/load. Once on site vehicles are supervised by site staff so as to ensure a rapid delivery and/or collection of materials in order to minimise the time that delivery vehicles are on site. - Door-buy customers/ wagons and containers there is a limit of 1 vehicle in the rear yard at per time	3	3	9	2	3	6	
Fire resulting from arson, defective plant, self-combustion,	Fire can result in air pollution, surface	People living or working near to or	The site has 24/7 CCTV and adequate security fencing and security patrols during evening hours to deter intruders and arson.	3	4	12	2	4	8	

incompatible wastes, discarded smoking materials, hot works.	water pollution and the create hazardous solid wastes (products of combustion)	visiting the Site.	- The main waste types held on site are non-combustible wastes therefore the risk of self-combustion is negligible. - In the event of a fire the emergency procedure would be followed (see Accident Management Plan) - Any hot works that are completed, there is a 60-minute fire watch once works have been completed - GUID65 – Fire Emergency Plan and Information for Fire and Rescue Services - Fire Risk Assessment completed every 12 months by approved contractor							
Exhaust gases from Acid Fume Scrubber in the on-site Laboratory	Environmental Impact from exhaust gases	CO2 a greenhouse gas contributing to global warming; NOx contributes to acidification. Potential adverse impact on local air quality.	- Fume cupboard scrubbing equipment operated by trained lab personnel only. - Equipment used during specific lab operations intermittently during weekdays. - Approved external contractor provides PH servicing, which is completed monthly. Service records are saved on the S://Drive. - Weekly acid fume scrubber check completed via Tech Check to ensure system is in full operational order - PH alarm located on the control panel, if PH levels are too high. This will be alerted on the panel indicating a fault to Operatives, as well as an audible alarm. - Scrubber is located in a bunded and gated area – fitted with sump pump to remove any rain water	3	4	12	2	4	8	

Health Safety and Welfare Legislation:

- Health & Safety at Works Act 1974
- Management of Health & Safety at Works Regulations 1999
- Workplace (Health Safety & Welfare) Regulations 1992
- Manual Handling Operations Regulations 1992

- Provision & Use of Work Equipment Regulations 1998
- Lifting Operations & Lifting Equipment Regulations 1998
- Personal Protective Equipment at Work Regulations 1992
- Control of Substances Hazardous to Health Regulations 2002

Name of Issued by		Signature of Issued by	
Name of Authorised by		Signature of Authorised by	
Review Date			

Action Plan

Continue with Existing control measures and in addition to:

1.	
2.	
3.	
4.	
5.	
6.	

Personal Protective Equipment (PPE) Needed

Tick as required

						
Wear ear protectors ☐	Eye protection must be worn ☐	Protective footwear must be worn ☐	Wear gloves ☐	Wear hard hats ☐	High visibility clothing must be worn ☐	Wear masks ☐

Consultation with Employees

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Name of Operator		Signature of Operator	
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Improvement Checker					
Action Number	Date Complete	Signature of Supervisor	Action Number	Date Complete	Signature of Supervisor
1			2		
3			4		
5			6		
Comments					

Key									
Li	Likelihood of Risk	Se	Severity	RR	Risk Ranking	The risk ranking is the likelihood multiplied by the severity. ($Li \times Se = RR$)			
Likelihood									
1	Very Unlikely	2	Unlikely	3	May Happen	4	Likely	5	Certain or Imminent
Severity									
1	Delay Only	2	Minor Injury, Minor Damage	3	Lost Time Injury, Illness, Damage	4	Major Injury, Disabling Illness, Major Damage	5	Single Death, Multiple Death

	1	2	3	4	5	Priority of Action			
1	1	2	3	4	5	Green	1-6	Residual Risk	continue with present control measures
2	2	4	6	8	10	Yellow	7-11	Adequately Controlled Risk	look to make improvements at the next review
3	3	6	9	12	15	Orange	12-16	Acceptable Short Term Risk	look to improve risk reduction within a specified time frame
4	4	8	12	16	20	Red	17-25	Unacceptable Risk	stop the activity, implement immediate control actions to reduce risk
5	5	10	15	20	25	Grid Taken from IOSH Managing Safely			