

**RISK ASSESSMENT FOR THE DEPOSIT ON WASTE ON  
LAND AS WASTE RECOVERY ACTIVITY  
Morfa, Trearddur Bay, Anglesey, LL65 2TY**

Eaden Homes Limited

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# **Environmental risk assessment model**

**Operator:** Eaden Homes Limited  
**Site location:** Morfa, Trearddur Bay, Anglesey, LL65 2TY  
**Assessment compiled:** 20 March 2017

## **Notes**

**Hazard:** A property or situation that in particular circumstances could lead to harm.

**Consequences:** The adverse effects or harm as the result of realising a hazard which causes the quality of human health or the environment to be impaired in the short or long term.

**Risk:** A combination of the probability of occurrence of a defined hazard and the magnitude of the consequences of the occurrence.

## **Abbreviations used:**

### **Consequences of hazard:**

A: Minor injury  
B: Major injury  
C: Death  
D: Air pollution  
E: Water pollution  
F: Pollution of land

### **Examples of pathways:**

Air  
Water  
Ground  
Direct contact

## **Effect of consequences**

S: Severe (Management required in all cases)  
Mo: Moderate (Management required in most cases)  
Mi: Mild (Management required occasionally)  
N: Negligible (Management not required)

**Note:** Management is the action required to reduce the risk of a hazard causing a problem on site. Contingency measures are procedures which are in place to reduce the consequences of a hazard.

## **Risk estimation and evaluation – probability/frequency of occurrence of hazard**

- a) High - could occur during any working day
- b) Medium - could occur regularly - management/contingency required
- c) Low - event possible - contingency measures/management advisable
- d) Negligible - event very unlikely - contingency measures/management advisable but not absolutely necessary

## **Risk assessment outcomes (combination of probability & consequence). Management i.e. action required to reduce risk is based on the outcome.**

High, Medium, Low, Near Zero or Zero

No.	Hazard/Potential contaminant or situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial action/ recommendations/comments
1	DUST / PARTICULATES	IMPORTED MATERIAL	1. AIR 2. DIRECT INGESTION	1. SITE PERSONNEL, VISITORS AND ADJACENT SITE OCCUPIERS OR USERS 2. FLORA AND FAUNA 3. BEDDMANARCH-CYMYRAN SSSI	A, B, D, F	Mo	3	Low	1. ALL OPERATIVES TO WEAR CORRECT PPE 2. IN PERIODS OF DRY WEATHER, DUST TO BE SUPPRESSED USING A BOWSER 3. ALL VEHICLE RUNNING SURFACES TO BE KEPT FREE FROM MUD AND DEBRIS 4. VEHICLES WILL BE SHEETED ON ENTRY TO AND EXIT FROM THE SITE 5. SITE INSPECTIONS WILL BE CARRIED OUT PERIODICALLY AND ALL OPERATIVES WILL RECEIVE RELEVANT TRAINING 6. REFER TO SECTION 6.4 OF THE MANAGEMENT SYSTEM FOR FULL DETAILS OF DUST MITIGATION
2	ODOUR	STORED WASTE	AIR	SITE PERSONNEL, VISITORS AND ADJACENT SITE OCCUPIERS OR USERS	A, D	Mi	3	Low	1. MALODOROUS WASTES WILL NOT BE ACCEPTED 2. ANY MALODOROUS WASTE FOUND AFTER DEPOSIT WILL BE QUARANTINED AND/OR REMOVED FROM SITE IMMEDIATELY
3	LITTER	STORED WASTE	AIR/WATER	1. SURFACE WATER 2. SURROUNDING LAND 3. REDUCTION IN VISUAL AMENITY 4. INGESTION HAZARD FOR WILDLIFE	A to C E, F	Mi to Mo	4	Low	1. PERMITTED WASTES UNLIKELY TO GENERATE LITTER 2. ANY LOADS CONTAINING WASTE LIKELY TO GIVE RISE TO LITTER WILL BE QUARANTINED AND/OR REMOVED FROM SITE IMMEDIATELY
4	NOISE/VIBRATION	PLANT AND MACHINERY	AIR	1. SITE PERSONNEL, VISITORS AND ADJACENT SITE OCCUPIERS OR USERS 2. PUBLIC	A, D	Mi to S	4	Low	1. ACTIVITIES ON SITE NOT CONSIDERED TO BE NOISE SENSITIVE. 2. VEHICLE MOVEMENT ONLY PERMITTED WITHIN OPERATIONAL HOURS AND ALL PLANT AND MACHINERY WILL BE SERVICED AND MAINTAINED REGULARLY AND UNDER CONTRACT 3. COMPLIANCE WITH THE HSE DOCUMENT, “NOISE AT WORK - GUIDANCE FOR EMPLOYERS ON THE CONTROL OF NOISE AT WORK REGULATIONS 2005” 4. ANY COMPLAINTS WILL BE LOGGED AND DEALT WITH IMMEDIATELY. 5. SEE SECTION 6.9 OF MANAGEMENT SYSTEM FOR FULL LIST OF REMEDIAL ACTIONS
5	VERMIN/PESTS (LEPTOSPIROSIS etc.)	STORED PUTRESCIBLE /BIODEGRADABLE WASTES	1. WATER 2. DIRECT CONTACT WITH WASTE	SITE PERSONNEL OR VISITORS	A to C	Mi to Mo	4	Low	1. PERMITTED WASTES UNLIKELY TO ATTRACT VERMIN/PESTS 2. NO PUTRESCIBLE MATERIAL WILL BE ACCEPTED ON SITE
6	FIRE – SMOKE / PARTICULATES	1. PLANT EXHAUSTS 2. STORAGE OF WASTE 3. COMBUSTION OF WASTES	AIR	1. SITE PERSONNEL, VISITORS AND ADJACENT SITE OCCUPIERS OR USERS 2. PUBLIC	A to F	Mi to S	4	Low	1. FIRES ON SITE ARE STRICTLY PROHIBITED 2. PERMITTED WASTE TYPES ARE HIGHLY UNLIKELY TO COMBUST

				3. SURFACE WATER VIA FIRE WATER					
7	VEHICLE COLLISION / ACCIDENT	1. PLANT EXHAUSTS 2. STORAGE OF WASTE COMBUSTION OF WASTES	DIRECT CONTACT	1. VEHICLE USERS 2. PEDESTRIANS 3. ANIMALS	A to F	Mi to Mo	3	Low	1. ONLY 1 EXCAVATOR AND 1 TRACKED DOZER ON SITE - NOT TO BE OPERATED SIMULTANEOUSLY 2. STRICT HOUSEKEEPING / VEHICLE MANAGEMENT AND PREVENTATIVE MAINTENANCE PROCEDURES 3. AN ACCIDENT LOGBOOK SHOULD BE KEPT FOR ALL INCIDENTS 4. ENCOURAGEMENT FOR STAFF FOR GREATER NUMBER OF "ACCIDENT FREE DAYS" TO ENCOURAGE A SAFER WORKING ENVIRONMENT 5. HSE COMPLIANT RISK ASSESSMENTS FOR ALL SITE ACTIVITIES TO IDENTIFY SITUATIONS WHICH MAY LEAD TO HARM FOR SITE USERS (EMPLOYEES, VISITORS AND MANAGEMENT) 6. OPERATIONS ON SITE WILL CEASE IF VISIBILITY IS POOR
8	DRAINAGE / LEACHATE	1. STORED WASTES 2. DEPOSITED WASTES FOLLOWING COMPLETION OF RESTORATION WORKS	GROUND	1. DRAIN WHICH RUNS THROUGH THE CENTRE OF THE SITE 2. INLAND SEA	E, F	Mi to S	3	Low	1. WASTE TYPES RESTRICTED TO THOSE SPECIFIED IN SECTION 2.4 OF THE MANAGEMENT SYSTEM 2. STRICT WASTE ACCEPTANCE PROCEDURES IN ACCORDANCE WITH SECTION 5.0 - INERT WASTES ONLY 3. DURING THE RESTORATION PHASE, OPERATIONS WILL BE CARRIED OUT TO ENSURE THAT SURFACE DRAINAGE IS CONTAINED WITHIN THE WORKING AREA
9	RELEASE OF GASES/FUMES/ VAPOURS/ VOLATILES/FIBRES	1. OVERTURNED VEHICLE PLANT/PLANT FAILURE 2. REACTION BETWEEN STORED WASTES	1. AIR 2. GROUND 3. WATER	1. OCCUPIERS 2. SITE WORKERS 3. SURROUNDING SITE USERS 4. BEDDMANARCH-CYMYRAN SSSI	A to F	Mi to S	3	Low	1. NO HAZARDOUS WASTES ACCEPTED 2. ANY HAZARDOUS WASTES WHICH IS NOT IDENTIFIED DURING INSPECTION WILL BE CONSIGNED IMMEDIATELY TO THE LOCKABLE REJECTED WASTE CONTAINER TO AWAIT REMOVAL OFF SITE TO AN APPROPRIATELY LICENSED/ PERMITTED FACILITY AND THE ENVIRONMENT AGENCY CONTACTED IF REQUIRED 3. IN THE EVENT OF BREAKDOWN OF THE LOADING PLANT AN ALTERNATIVE LOADING SHOVEL/360/EXCAVATOR WILL BE BROUGHT ON SITE UNTIL IT IS REPAIRED 4. MINOR REPAIRS WILL BE CARRIED OUT ON SITE WITH ABSORBENTS USED TO CLEAR OIL OR FUEL SPILLAGES