ENVIRONMENTAL RISK ASSESSMENT

Gaerwen Industrial Estate, Gaerwen, Anglesey, LL60 6HR

Green Skips (Environmental) Ltd

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Oaktree Environmental Ltd

Waste, Planning & Environmental Consultants

Oaktree Environmental Ltd, Lime House, Road Two, Winsford Industrial Estate, Winsford, Cheshire, CW7 3QZ
Tel: 01606 558833 | E-Mail: sales@oaktree-environmental.co.uk | Web: www.oaktree-environmental.co.uk
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1.4	20/08/2020	CP	--	NRW comments and re-issue

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Appendices

Appendix I - Receptor Plan

1 Introduction

1.1 This Environmental Risk Assessment considers the potential and actual risks associated with the use of the site at Gaerwen Industrial Estate, Gaerwen, Anglesey, LL60 6HR.

1.2 The site is operated by Green Skips (Environmental) Ltd in accordance with a fully comprehensive Environmental Management System (EMS) and Environmental Permit, regulated by the Natural Resources Wales.

1.3 All environmental risks identified in this document should be acted upon accordingly by site management to ensure all environmental risks can be appropriately managed/controlled.

1.4 This document primarily considers environmental risks associated with the site. This does not aim to provide detailed Health and Safety risk assessments as required separately through the necessary legislation.

1.5 Specified waste management operations include waste disposal and waste recovery operations listed Annex IIA and IIB of The Waste Framework Directive 2008/98/EC and are listed in summary below:

1.6 Waste treatment processes on site include the following:

- Compacting (by loading shovel/360° excavator)
- Sorting (with loading shovel/360° excavator or by hand)
- Screening (by using appropriate trommel screening plant and equipment)
- Separation (by using appropriate and equipment)
- Baling (by using appropriate plant and equipment)
- Magnetic separation of ferrous metals
- Cutting (using hand-held equipment)

2 Site Receptors

2.1 A Sensitive Receptors Plan is shown on Drawing No. GIE-209-04.

2.2 The site is not located within an AQMA.

2.3 The nearest residential receptors are approximately 400 metres to the north-east of the site on Lon Groes.

3 Environmental Risk Assessment Model

3.1 Fundamental considerations

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

3.1.2 **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.

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

3.2 Pathway

3.2.1 Important in the assessment of a particular risk(s) and to inform the subsequent management of the risk(s) is the identification of the pathway(s) through which the risk may affect the identified receptor(s). The following are examples of pathways:

- Air
- Ground
- Water
- Direct contact / exposure

3.3 Consequences

3.3.1 The following table highlights the consequences of the hazard(s) identified and the abbreviations for each as used in the Risk Assessment Table in Section 3:

Abbreviation	Consequences
A	MINOR INJURY
B	MAJOR INJURY
C	DEATH
D	AIR POLLUTION
E	WATER POLLUTION
F	POLLUTION OF LAND

3.4 Effects of consequences

3.4.1 In order to quantify the level of risk and identify the appropriate management procedures, the potential effects must be considered, as outlined in the table below:

Abbreviation	Effect of Consequences	Management Required?
S	SEVERE	In all cases
Mo	MODERATE	In most cases
Mi	MILD	Occasionally
N	NEGLIGIBLE	No

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.

3.5 Risk estimation and evaluation (probability/frequency of occurrence of hazard)

3.5.1 The following table allows the likelihood of an occurrence of an identified risk to be assessed:

	Probability	**Evaluation**
1	Very likely	Could occur during any working day
2	Likely	Could occur regularly
3	Possible	Event possible
4	Unlikely	Event very unlikely

3.6 Risk assessment outcome (combination of probability & consequence)

3.6.1 The following table shows the resultant risk of an identified hazard or potential situation. This uses the hierarchy of both probability and consequence to assess the level of risk. The level of risk determines what level of management would be required in order to reduce the risk of occurrence and/or scale.

		Consequence			
		S	**Mo**	**Mi**	**N**
Probability	1	High	High	Medium	Low
	2	High	Medium	Low	Near-Zero
	3	Medium	Low	Near-Zero	N/A
	4	Low	Near-Zero	N/A	N/A

3.6.2 Where the risk assessment outcome is high, first-level management of the risk is essential, i.e. removal of hazard, implementation of major infrastructure/structural design measures to contain the risk/hazard and company policy changes to incorporate the management of the risk. All risk management measures must be supplemented with detailed induction training, spot training and tool-box talks to ensure all site staff and users are made fully aware of the risk/hazard, all potential consequences and necessary management and contingency procedures.

3.6.3 Where the risk assessment outcome is medium, the management of the risk should be tackled by management or delegates. If removal of the hazard is not possible,

management will normally be met through implementing minor structural design measures or by imposing procedures for the prevention of occurrences which will be conveyed to all site staff through the appropriate training, including any contingency measures/procedures.

3.6.4 Where the risk assessment outcome is low, the management of the risk can be done wholly through appropriate training to site staff including any contingency measures/procedures.

3.6.5 Where the risk assessment outcome is near-zero, site staff should be made aware of the possibility of an occurrence and contingency measures should be readily available to all staff should they be required.

4 Risk assessment table

4.1 The following pages contain the site-specific risk assessment for the site with appropriate remedial actions, recommendations and comments included for each identified hazard, potential contaminant or situation.

4.2 The table also contains references to the appropriate section(s) of the site's EMS for additional management procedures.

4.3 As discussed in Section 3.6 above, all situations which identify a risk from Low –High should be incorporated into the staff/visitor training schedule, where appropriate and acted on as required.

SEE TABLES BELOW

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
DUST / PARTICULATES	SITE SURFACES (DRY AND WINDY WEATHER) TREATMENT OF WASTE BY MECHANICAL PLANT LOADING OF WASTE USING MOBILE PLANT STORAGE OF 'DUSTY' WASTE INCLUDING PRE AND POST TREATED MATERIAL TRACKING OF DUST FROM MOBILE PLANT POOR HOUSEKEEPING DRY/WARM WEATHER CONDITIONS INCREASED STORAGE QUANTITIES OF DUSTY WASTE INCREASED WASTE THROUGHPUT	AIR	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURFACE WATERS FLORA & FAUNA RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES MALLTRAETH MARSH / CORS DDYGA SSSI	A, B, D, E	MO	2	LOW	ALL TIPPING AND TREATMENT OF WASTE ON RECEPTION WILL TAKE PLACE INSIDE THE PROPOSED TRANSFER BUILDING NO MECHANICAL TREATMENT IN THE WAY OF CRUSHING OR SCRENNING OF SOILS & AGGREGATES WILL TAKE PLACE AT THE SITE ALL STORAGE OF DUSTY WASTES I.E. SOILS/AGGREGATES WILL BE IN DEDICATED THREE-SIDED STORAGE BAYS 2M CONCRETE BLOCK WALLS AND 5M DUST NETTING TO NORTHERN AND PART OF WESTERN BOUNDARY ALL DUSTY LOADS SHEETED ON ARRIVAL AND EGRESS FROM THE SITE. INSTALLATION OF ADDITIONAL CONCRETE TO PREVENT MUD TRACKING AND REDUCTION OF DUST DURING DRY WEATHER CONDITIONS. DROP HEIGHTS WILL BE KEPT TO A MINIMUM CONTINUOUS MONITORING REGIME IN PLACE TO IDENTIFY ANY POTENTIAL FOR DUST LEAVING SITE BOUNDARY. COMPLAINTS PROCEDURE IN EMS IN PLACE. CLEANING OF ANY SPILLAGES USING WET CLEANING METHODS. DURING TIMES OF EXTREME WIND, THE PLANT WILL CEASE TO OPERATE. ALL OTHER DUSTY WASTE STORED WILL BE CONTAINED WITHIN THE HEIGHT OF THEIR STORAGE BAY AND BELOW THE HEIGHT OF THE PERIMETER INFRASTRUCTURE

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
ODOUR	STORED WASTES POOR HOUSEKEEPING REJECTED WASTE INCREASED STORAGE QUANTITIES OF DUSTY WASTE CRACKS IN CONCERTE CAUSING SMALL PARTICLES OF WASTE TO BECOME STAGNANT WITH RAINWATER	AIR	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES	A, D	MI TO MO	3	LOW TO NEAR ZERO	STRICT WASTE ACCEPTANCE PROCEDURES TO IDENTIFY ODOROUS WASTE LIKELY TO GIVE RISE TO COMPLAINTS OFF SITE I.E. PUTRESCIBLE WASTES ANY WASTES GIVING RISE TO ODOUR FOLLOWING A DAILY INSPECTION WILL BE REMOVED FROM SITE WITHIN 48 HOURS ALL POTENTAILLY ODOUROUS WASTE I.E. GREEN WASTE WILL BE STORED INSIDE A STORAGE BAY ALL WASTE RECEPTION WHERE MALODOUROUS COULD BE ACCEPTED WILL NOW TAKE PLACE WITHIN A WASTE TRANSFER BUILDING DRAINAGE CHANNELS AND SITE INFRASTRUXTUERE WILL BE CHECKED DAILY WITH ANY ISSUES RECTIFIED AS SOON AS PRACTICABLE MALODOROUS WASTE IS DEPOSITED ON SITE IT WILL BE CONSIGNED TO A SEALED REJETCED WASTE SKIP COMPLAINTS PROCEDURE IN PLACE.
LITTER	PRE-PROCESSING STOCKPILE UNSHEETED / POORLY SHEETED SKIPS ON DELIVERY VEHICLES LOOSE/MATERIAL POOR HOUSEKEEPING INCREASED STORAGE & THROUGHPUT OF LIGHT WASTE	AIR	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURFACE WATERS FLORA & FAUNA RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES MALLTRAETH MARSH / CORS DDYGA SSSI	A TO C E,F	MI TO MO	3	LOW TO NEAR ZERO	ALL DRIVERS WILL ENSURE THEIR SKIPS / CONTAINERS ARE SECURELY SHEETED / CONTAINED PRIOR TO CARRIAGE OF WASTE LOADS. DAILY INSPECTIONS OF THE SITE AND AREAS IN THE IMMEDIATE VICINITY OF THE SITE BOUNDARY FOR LITTER. THE SITE WILL BE CONSTRUCTING A WASTE TRANSFER BUILDING TO HOUSE THE MECHANICAL TREATMENT OF NON-INERT WASTE TO PREVENT WIND BLOWING MATERIAL AROUND AND POTENTIALLY OFF SITE. ALL TIPPING OF WASTE ON RECEPTION WILL TAKE PLACE INSIDE THE PROPOSED TRANSFER BUILDING 2M CONCRETE BLOCK WALLS AND 5M DUST NETTING TO NORTHERN AND PART OF WESTERN BOUNDARY NO LIGHT WASTE LIKELY TO CAUSE LITTER WILL BE STORED EXTERNALLY ALL LIGHT WASTE IS STORED IN A STEEL CAGE AS PART OF THE MIXED WASTE TREATMENT PLANT INSIDE THE TRANSFER BUILDING

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
NOISE/VIBRATION	OPERATION OF MECHANICAL TREATMENT PLANT TIPPING OF WASTE MANOUEVRING WASTE AROUND THE SITE USING MOBILE PLANT REMOVAL OF WASTE FROM SITE USING HGV'S INCREASED WASTE THROUGHPUT OF THE SITE FAULTY MECHNAICAL TREATMENT & MOBILE PLANT AND EQUIPMENT HOT WORKS I.E. WELDING CUTTING	AIR	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES MALLTRAETH MARSH / CORS DDYGA SSSI	A, D	MO	3	LOW	NOISE LIKELY TO BE OF A SIMILAR CHARACTER AND LEVEL OF EXISTING SURROUNDING LAND USES I.E. INDUSTRIAL AND COMMERCIAL BUSINESSES NEAREST SENSITIVE RECEPTOR I.E. RESIDENTIAL PROPERTY LOCATED >250M FROM SITE DROP HEIGHTS WILL BE KEPT TO A MINIMISE NOISE / VIBRATION. MANAGEMENT WILL ENSURE THAT ALL LOADING PLANT OPERATED IS FUNCTIONING SUITABLY I.E. MOVING PARTS TO BE REGULARLY LUBRICATED. OPERATIVES WILL BE INFORMED TO TURN OFF ENGINES WHEN THE PLANT IS NOT IN USE AND NO REVVING OF ENGINES WILL BE PERMITTED AT THE SITE I.E. NO IDLING POLICY ANY MALFUNCTIONS IN PLANT I.E. MISSING SCREWS/BOLTS WHICH RESULT IN EXCESSIVE NOISE WILL BE DECOMMISSIONED UNTIL AN ALTERNATIVE LOADING PLANT SOURCED. COMPLAINTS PROCEDURE IN PLACE. IF REPAIRS TO THE SITE ARE REQUIRED, THE WORK IS TO BE UNDERTAKEN WITH DUE REGARD FOR THE POSSIBLE NOISE NUISANCE AND DURING THE NORMAL WORKING DAY. IN THE EVENT OF MAJOR REPAIR WORK BEING UNDERTAKEN WHICH IS LIKELY TO CAUSE SIGNIFICANT NOISE AND DISRUPTION, NEIGHBOURING RESIDENTS AND NATIRAL RESOURCES WALES WILL BE NOTIFIED IN ADVANCE ALL MECHANICAL TREATMENT OF WASTE IS UNDERTAKEN INSIDE THE WASTE TRANSFER BUILDING TO PROVIDE SCREENING TO SURROUNDING BUSINESSES ANY HOT WORKS I.E. WELDING/CUTTING TAKES PLACE INSIDE A DESIGNATED WORKSHOP BUILDING
VERMIN (LEPTOSPIROSIS ETC.)	STORED PUTRESCIBLE/ BIODEGRADABLE WASTES INCREASED STORAGE DUSTY WASTE INCREASED WASTE THROUGHPUT	WATER, DIRECT CONTACT WITH WASTE	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES	A TO C	MI TO MO	3	LOW	WEAR PPE - GLOVES AND MASKS AS APPROPRIATE. SITE INSPECTIONS DAILY. ANY WASTES CONSIDERED UNSUITABLE AFTER DEPOSIT WILL BE ASSIGNED TO THE QUARANTINE/REJECTED SKIP. PEST CONTROLLER WILL BE CALLED TO SITE TO ERADICATE ANY PROBLEMS.

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
FIRE - SMOKE / PARTICULATES	STORAGE OF WASTES COMBUSTION OF WASTES ARSON OR VANDALISM FAULTY PLANT OR EQUIPMENT ELECTRICAL APPLIANCES AND CABLING DISCARDED SMOKING MATERIALS OPEN BURNING ON SITE OR ON ADJACENT SITES OVERHEATING OF STORED WASTE SPARKS FROM LOADING BUCKETS/SHOVELS HOT WORKS LOOSE MATERIAL BUILD UP AROUND PLANT/MACHINERY AND EXHAUSTS HOT LOADS OTHER COMBUSTIBLE NON-WASTE MATERIALS ON OR NEAR THE SITE NOT MENTIONED ABOVE BATTERIES WITHIN WASTE DEPOSITS VISITORS OR CONTRACTORS REACTION BETWEEN WASTES CYLINDERS STORED AT SITE “TRAMP” METAL LEAKS AND SPILLAGES	AIR, DIRECT CONTACT	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURFACE WATERS FLORA & FAUNA RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES MALLTRAETH MARSH / CORS DDYGA SSSI	A TO F	MI TO S	3	LOW	NO FIRES ON SITE NO SMOKING PERMITTED ON SITE GOOD SITE SECURITY LOW STORAGE VOLUMES AND RETENTION TIMES REDUCES RISK OF FIRE PREVENTATIVE MAINTENANCE PROCEDURES DETAILED FIRE PREVENTION PLAN IN PLACE THE SITE WILL OPERATE IN ACCORDANCE WITH THE FIRE PREVENTION AND MITIGATION PLAN FOLLOWING A VARIATION OF THIS PERMIT

Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
VEHICLE COLLISION/ ACCIDENT	MUD ON ROADS FROM WASTE STORAGE & VEHICLE BODIES POOR VISIBILITY INCREASED THROUGHPUT OF WASTE	DIRECT CONTACT	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURROUNDING BUSINESSES	A TO F	MI TO S	3	LOW	GOOD HOUSEKEEPING/ VEHICLE MANAGEMENT. GOOD STOCKPILE MANAGEMENT. WEAR PPE – HIGH VISIBILITY JACKET AS APPROPRIATE. AN ACCIDENT LOGBOOK SHOULD BE KEPT FOR ALL INCIDENTS. ENCOURAGEMENT FOR STAFF FOR GREATER NUMBER OF "ACCIDENT-FREE DAYS" TO ENCOURAGE A SAFER WORKING ENVIRONMENT. HSE COMPLIANT RISK ASSESSMENTS FOR ALL SITE ACTIVITIES TO IDENTIFY SITUATIONS WHICH MAY LEAD TO HARM FOR SITE USERS (EMPLOYEES, VISITORS AND MANAGEMENT). APPROPRIATE SIGNAGE THROUGHOUT THE SITE. DEDICATED PARKING AREAS FOR HGV'S AND SMALLER VEHICLES
LEACHATE	STORED WASTES	GROUND	SURFACE WATERS FLORA & FAUNA MALLTRAETH MARSH / CORS DDYGA SSSI	E, F	MI TO S	3	LOW	ALL WASTES WHICH ARE LIABLE TO GIVE RISE TO CONTAMINATION I.E. MIXED/NON-INERT WASTES WILL BE REMOVED FROM SITE IF SITE INFRASTRUCTURE/DRAINAGE IS NOT SUITABLE ALL WASTES WHICH ARE LIABLE TO GIVE RISE TO CONTAMINATION I.E. MIXED WASTES ARE STORED AND TREATED ON AN IMPERMEABLE CONRETE SURFACE DRAINAING INTO A SUITABLY DESIGNED SOAKAWAY VIA AN OIL INTERCEPTOR REGULAR CHECKS OF SITE SURFACE INFRASTRUCTURE. ANY SPILLAGES IDENTIFIED WILL BE DEALT WITH IN ACCORDANCE WITH THE SPILLAGE PROCEDURES OUTLINED IN THE SITES EMS.
IMPACT / INJURY	COLLAPSE OF STORED MATERIALS/ FALLING MATERIALS VEHICLE COLLISION/ ACCIDENT	DIRECT CONTACT	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURROUNDING BUSINESSES	A TO C	MI TO S	3	LOW	STORAGE HEIGHTS WILL BE KEPT TO A MINIMUM AND STORED WASTES/PRODUCTS WILL BE WITHIN BAYS/CONTAINERS. DROP HEIGHTS WILL ALWAYS BE KEPT TO A MINIMUM. APPROPRIATE PPE ISSUED TO ALL SITE STAFF AND AVAILABLE IN THE MAIN SITE OFFICE. STAFF TRAINING AND HANDLING PROCEDURES IN PLACE. APPROPROPRIATE SIGNAGE THROUGHOUT THE SITE. DEDICATED PARKING AREAS FOR HGV'S AND SMALLER VEHICLES.

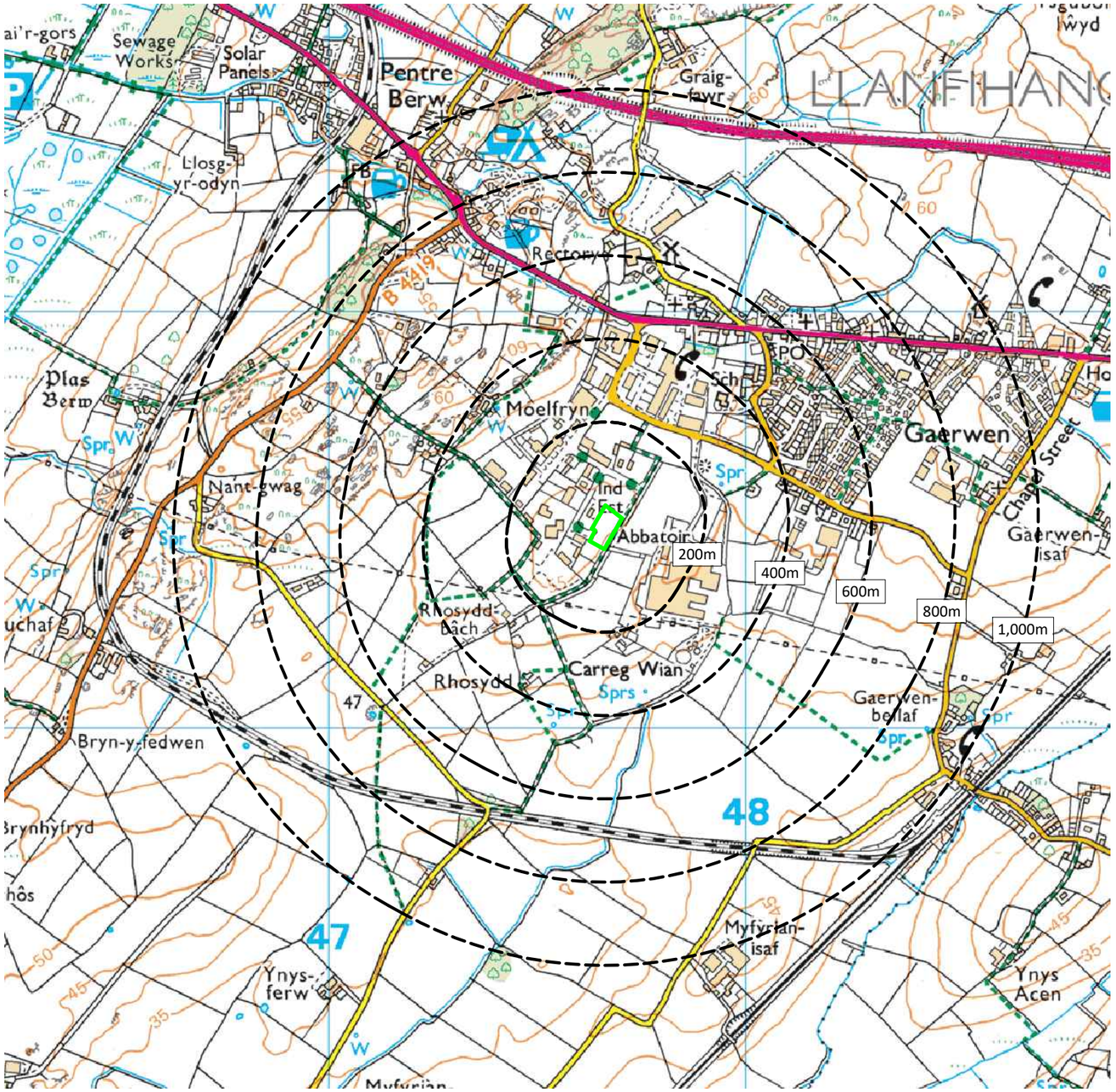
Hazard / Potential Contaminant or Situation	Source(s)	Pathway	Receptor(s)	Consequences	Effect	Probability	Assessment Outcome	Remedial Action/ Recommendations/ Comments
HYDROCARBONS	UNBUNDED FUEL TANKS DRIPS WHEN REFUELLING DURING DELIVERY LEAKAGE FROM STORED DRUMS PLANT FAILURE	GROUND - DIRECT CONTACT, INGESTION INHALATION (OF VOLATILES)	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURROUNDING BUSINESSES FLORA & FAUNA RESIDENTIAL RECEPTORS MALLTRAETH MARSH / CORS DDYGA SSSI	A, B, D, E, F	MI TO S	3	LOW	ANY FUEL TANKS (AND PIPEWORK) TO BE STORED WITHIN A BUNDED AREA AND LOCKED WHEN NOT IN USE. ENSURE THAT ALL FUEL DRUMS CONTINUE TO BE STORED SECURELY. SPILL KITS KEPT CLOSE TO SOURCE(S) OF HAZARDS. PREVENTATIVE MAINTENANCE SCHEDULE FOR PLANT/MACHINERY. ANY SPILLAGES IDENTIFIED WILL BE DEALT WITH IN ACCORDANCE WITH THE SPILLAGE PROCEDURES OUTLINED IN THE EMS.
RELEASE OF GASES / FUMES / VAPOURS / VOLATILES	MIXING OF WASTE/ CHEMICALS SPILLAGE OF CHEMICALS OVERTURNED VEHICLE PLANT/PLANT FAILURE REACTION BETWEEN STORED WASTES	AIR GROUND WATER CONFINED SPACES	SITE PERSONNEL / VISITORS SURROUNDING SITE USERS / OCCUPIERS SURFACE WATERS FLORA & FAUNA RESIDENTIAL RECEPTORS SURROUNDING BUSINESSES MALLTRAETH MARSH / CORS DDYGA SSSI	A TO F	MI TO S	3	LOW	ENSURE ANY STORAGE OF HAZARDOUS SUBSTANCES IN PROPERLY DESIGNATED AREAS (I.E. WORKSHOP NO HAZARDOUS WASTE ACCEPTED. PREVENTATIVE MAINTENANCE SCHEDULE FOR PLANT/MACHINERY. QUARANTINE OF REJECTED (I.E. POTENTIALLY HAZARDOUS) WASTES.

Appendix I

Receptor Plan

KEY:

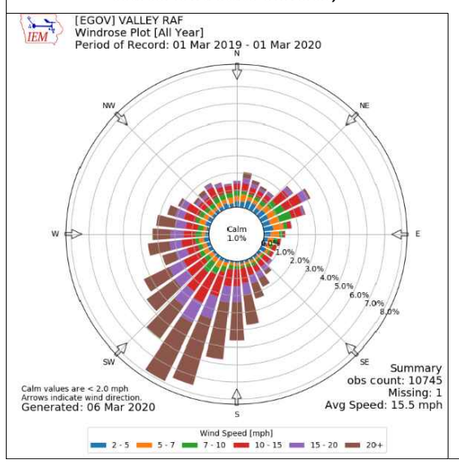
- Permit boundary
- Stream, river, beck
- Surface water body (pond / pool / lake)
- Buildings includes residential, agriculture, industry, commerce and retail - could also include houses)
- Residential blocks / properties
- Class A roads
- Class B roads
- Class C roads
- Railway line
- Woodland areas
- Public footpaths



Scale Bar (1:12,500)

0 km 500 m 1 km

Compass Wind Rose for RAF Valley Airport
(EGCC) Period 2019 - 2020
source: Iowa State University



NOTES

1. Boundaries are shown indicatively.
2. Wind rose data shows the prevailing wind direction to be blowing in south-westerly direction.

REVISION HISTORY

Rev	Date	Init:	Description:
-	02.4.20	CP	Initial Drawing

Oaktree Environmental Ltd
Waste, Planning and Environmental Consultants

DRAWING TITLE
RECEPTOR PLAN

CLIENT
Green Skips (Environmental) Ltd

PROJECT/SITE
Gaerwen Industrial Estate, Gaerwen, Ynys Mon
LL60 6HR

SCALE @ A3	JOB NO	CLIENT NO
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Lime House, Road Two, Winsford, Cheshire, CW7 3QZ
t: 01606 558833 | e: sales@oaktree-environmental.co.uk