Thorncliffe Bulding Supplies Ltd

RISK ASSESSMENT

Waste Recycling Facility
Ewloe Barn Industrial Estate, Alltami
Version 2.0 - 17 March 2015

Document Reference: 2875/012/D

Prepared by:

Oaktree Environmental Ltd

Oaktree Environmental Ltd - ***Unit 5, Oasis Park, 19 Road One, Winsford Industrial Estate, Winsford, Cheshire, CW7 3RY***
Tel: ***01606-558833*** *Fax:* ***01606-861182*** *E-mail:* ***sales@oaktree-environmental.co.uk***

WASTE MANAGEMENT FACILITY - ENVIRONMENTAL RISK ASSESSMENT

SITE : THORNCLIFFE BUILDING SUPPLIES LTD,
WASTE RECYCLING FACILITY
EWLOE BARN INDUSTRIAL ESTATE, ALLTAMI CH7 6LG

ASSESSMENT DATE: 17 March 2015
ASSESSMENT CARRIED OUT BY: Jan Edwards

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

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. Continency measures are procedures which are in place to reduce the consequences of a hazard.

RISK ESTIMATION AND EVALUATION - PROBABILITY/FREQUENCY OF OCCURRENCE OF HAZARD

1: High - could occur during any working day
2: Medium - could occur regularly - management/contingency required
3: Low - event possible - contingency measures/management advisable
4: Negligible - event very unlikely - continency 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 or Near Zero

No.	Hazard/Potential contaminant or situation	Source(s)	Pathway	Receptor(s)	Conse-quences	Effect	Prob-ability	Assessment Outcome	Remedial action / recommendations/comments
1	ASBESTOS FIBRES	AIRBOURNE ASBESTOS FIBRES	AIR/DIRECT INGESTION	1. .SITE PERSONNEL/VISITORS AND ADJACENT SITE OCCUPIERS/	A,B,D,E, F	High	2	Low	PROCEDURES IN PLACE AS DETAILED IN MANAGEMENT SYSTEM TO PREVENT RELEASE OF FIBRES
2	DUST / PARTICULATES	SITE SURFACES (DRY WEATHER), STORAGE OF DRY POTENTIALLY DUSTY WASTES EG SOILS	AIR/ DIRECT INGESTION	1. SITE PERSONNEL/VISITORS AND ADJACENT SITE OCCUPIERS/ USERS 2. SURFACE WATER 3. FLORA & FAUNA	A, B, D, E	Mo	3	Low	SYSTEMS IN PLACE TO CONTROL AND PREVENT EMISSIONS OF SUBSTANCES AS DETAILED IN MANAGEMENT SYSTEM INCLUDING PROVISIOON OF BUILDINGS FOR RECEPTION AND PORCESSING OF MIXED WASTES WHICH INCLUDES RDF PRODUCTION. DUST MANAGEMENT PLAN IN PLACE ALL OPERATIVES TO WEAR CORRECT PPE IN PERIODS OF DRY WEATHER, DUST TO BE SUPPRESSED USING A BOWSER ALL VEHICLE RUNNING SURFACES TO BE KEPT FREE FROM MUD AND DEBRIS VEHICLES WILL BE SHEETED ON ENTRY TO AND EXIT FROM THE SITE. SITE INSPECTIONS WILL BE CARRIED OUT PERIODICALLY AND ALL OPERATIVES WILL RECEIVE RELEVANT TRAINING MONITORING OF EMISSIONS TO ENSURE NO FUGITIVE EMISSIONS
3	ODOUR	STORED BIODEGRADABLE WASTE	AIR	1. SITE PERSONNEL/VISITORS 2. ADJACENT SITE OCCUPIERS/USERS	A, D	Mi to Mo	3	Low	MIXED WASTES INCLUDING UNWRAPPED AND LOOSE RDF STORED AND PROCESSED IN BUILDING.
4	LITTER	WASTE STORAGE/RESIDUES	AIR	1. SURFACE WATER 2. SURROUNDING LAND 2. INGESTION HAZARD FOR WILDLIFE	A to C E,F	Mi to Mo	3	Low	CHECKS WILL BE UNDERTAKEN DAILY TO ENSURE ANY LITTER IS CLEARED BY END OF WORKING DAY. MIXED WASTES TIPPED AND SORTED UNDER COVER.
5	NOISE/VIBRATION	PLANT AND MACHINERY	AIR AND GROUND	1. SITE PERSONNEL/VISITORS 2. WORKERS ON ADJACENT SITES 3. PUBLIC	A, D	Mi to Mo	3	Low	ALL WASTE MANAGEMENT OPERATIONS WILL BE UNDERTAKEN TO MINIMISE EXCESSIVE NOISE BEYOND SITE BOUNDARY. SITE LOCATED ON INDUSTRIAL ESTATE. NO RESIDENTIAL PROPERTIES NEARBY.
6	VERMIN (LEPTOSPIROSIS etc.)	STORED PUTRESCIBLE /BIODEGRADABLE WASTES	WATER, DIRECT CONTACT WITH WASTE	SITE PERSONNEL/VISITORS	A to C	Mi to Mo	4	Near-Zero	PEST CONTROL CONTRACT IN PLACE. IF ENCOUNTERED, EMPLOYEES WILL WEAR PPE - GLOVES AND MASKS AS APPROPRIATE.

No.	Hazard/Potential contaminant or situation	Source(s)	Pathway	Receptor(s)	Conse-quences	Effect	Prob-ability	Assessment Outcome	Remedial action / recommendations/comments
7	FIRE - SMOKE / PARTICULATES	1. PLANT EXHAUSTS 2. STORAGE OF WASTE 3. COMBUSTION OF WASTES	AIR	1. SITE PERSONNEL/VISITORS 2. WORKERS ON ADJACENT SITES 3. PUBLIC 4. SURFACE WATER VIA FIREWATER	A to F	Mi to S	3	Low	NO FIRES ON SITE. NO SMOKING PERMITTED ON SITE. FIRE PROCEDURE INCLUDED IN MANAGEMENT SYSTEM. FIRE PREVENTION&RISK PLAN PRODUCED BASED ON EA/NRW AND FIRE SERVICE GUIDANCE.STRICT ADHERENCE TO PERMITTED STORAGE VOLUMES AND RETENTION TIMES REDUCES RISK OF FIRE
8	VEHICLE COLLISION ACCIDENT	1. MUD ON ROADS FROM VEHICLE BODIES 2. POOR VISIBILITY	DIRECT CONTACT	1. VEHICLE USERS 2. PEDESTRIANS 3. ANIMALS	A to F	Mi to S	3	Low	HOUSEKEEPING / VEHICLE MANAGEMENT GOOD, LARGE MANOEUVRING CAPACITY FOR VEHICLES ON SITE.
9	SURFACE WATER	1. STORED WASTE	S/W, G/W	SURFACE WATER, GROUNDWATER	E,F	Mi to S	3	Low	WASTE TYPES RESTORICTED TO THOSE SPECIFIED IN ENVIRONMENTAL PERMIT STRICT WASTE ACCEPTANCE PROCEDURES IN ACCORDANCE WITH EMS AND PERMIT SURFACE WATER FROM THE SITE DRAINS VIA SERIES OF SILT TRAPS AND INTERCEPTORS INTO THE EXISTING INDUSTRIAL ESTATE'S SURFACE WATER DRAINAGE SYSTEM. RECEPTION AND PROCESSING BUILDINGS HAVE SEALED DRAINAGE..WASTE WITH LEACHING POTENTIAL WILL BE STORED ON IMPERMEABLE PAVEMENT WITH SEALED DRAINAGE
10	LEACHATE	1. STORED WASTES 2. STORAGE OF NON WASTES	GROUND	SURFACE WATER / GROUNDWATER	E, F	Mi to S	2	Low	ALL LIQUIDS PROVIDED WITH SECONDARY CONTAINMENT (IE NON-WASTES EG FUELS) RUN-OFF RESTRICTED BY PERMIT CONDITIONS AND THROUGH IMPLEMENTATION OF THE MANAGEMENT SYSTEM. STORAGE LOCATION AND CONTAINMENT ADHERED TO.
11	IMPACT/INJURY	COLLAPSE OF STORED MATERIALS/ FALLING MATERIALS	DIRECT CONTACT	SITE PERSONNEL/VISITORS	A to C	Mi to S	3	Low	HOUSEKEEPING / KEEP STOCKPILE HEIGHTS TO A MINIMUM.
12	HYDROCARBONS	1. UNBUNDED FUEL TANKS 2. DRIPS WHEN REFUELLING 3. DURING DELIVERY 4. LEAKAGE FROM STORED VEHICLES/DRUMS 5. PLANT FAILURE	GROUND - DIRECT CONTACT, INGESTION INHALATION (OF VOLATILES)	SITE PERSONNEL/VISITORS	A, B, D, E, F	Mi to S	2	Med	AREA AROUND FUEL TANK ON SITE BUNDED, TO CONTAIN AT LEAST 110% OF ITS CAPACITY AND LOCKED WHEN NOT IN USE, PIPEWORK ALSO LOCKED WITHIN BUNDED AREA WHEN NOT IN USE. OPERATOR'S VEHICLES STORED ON CONCRETED AREA DRAINING VIA INTERCEPTOR TO FOUL SEWER. KEEP SPILL KIT CLOSE TO SOURCE OF HAZARD TO REDUCE THE RISK TO LOW.

No.	Hazard/Potential contaminant or situation	Source(s)	Pathway	Receptor(s)	Conse-quences	Effect	Prob-ability	Assessment Outcome	Remedial action / recommendations/comments
13	RELEASE OF GASES/FUMES/ VAPOURS/ VOLATILES	1. MIXING OF WASTE/CHEMICALS 2. SPILLAGE OF CHEMICALS 3. OVERTURNED VEHICLE PLANT/PLANT FAILURE 4. REACTION BETWEEN STORED WASTES	AIR GROUND WATER CONFINED SPACES	OCCUPIERS/ SITE WORKERS	A to F	Mi to S	3	Low	ANY SPILLAGE OF CHEMICALS WILL BE DEALT WITH IMMEDIATELY USING APPROPRIATE ABSORBENT MATERIALS & PROCEDURES. ENSURE ANY STORAGE OF HAZARDOUS SUBSTANCES IN PROPERLY DESIGNATED AREAS.
14	IONISING RADIATION	(SOURCES I.E. RADIOACTIVE SUBSTANCES)	DIRECT CONTACT	WORKERS ON SITE	A to C	Mi to S	4	Zero	NO LASERS, ETC. USED
15	ELECTRICAL	1. MAINS SUPPLY 2. ELECTRICAL APPLIANCES	DIRECT CONTACT	WORKERS ON SITE	A to C	Mo to Mi	3	Low	COMPLIANCE WITH ELECTRICITY AT WORK GUIDELINES 1989
16	MINOR FUEL/OIL SPILLAGES	FUELLING OF VEHICLES	WATER	SURFACE WATER	A, B, D to F	Mo to Mi	1/2	Low	SPILL KIT AND CLEARANCE PROCEDURES.
17	BIOLOGICAL HAZARD	N/A	N/A	N/A	A to C, E, F	Mo to N	4	Near Zero	N/A
18	HIGH WINDS	ADVERSE WEATHER CONDITIONS	AIR	SITE PERSONNEL/VISITORS	A to F	Mo to Mi	3	Near Zero	IF HIGH WINDS CREATE HAZARDOUS WORKING CONDITIONS OR HAVE POTENTIAL TO LEAD TO ANY CIRCUMSTANCES LIKELY TO CAUSE POLLUTION, THE PROCESSING OF WASTE IN THE EXTERNAL YARD AREAS AT THE SITE SHOULD BE TEMPORARILY SUSPENDED.
19	POOR VISIBILITY	ADVERSE WEATHER CONDITIONS (FOG)	AIR	SITE PERSONNEL/VISITORS	A to D	Mo to N	2	Near Zero	ADEQUATE LIGHTING PROVIDED ON SITE AND SAFETY PRECAUTIONS TAKEN IF ADVERSE WEATHER AFFECTS EXTERNAL OPERATIONS THEY WOULD BE TEMPORARILY SUSPENDED. FLOODLIGHTS AVAILABLE IN NECESSARY FOR SAFETY REASONS

No.	Hazard/Potential contaminant or situation	Source(s)	Pathway	Receptor(s)	Conse-quences	Effect	Prob-ability	Assessment Outcome	Remedial action / recommendations/comments
20	DUST	DUST GENERATED ON SITE FROM LOADING AND UNLOADING, MOVEMENT OF PLANT AND VEHICLES, PROCESSING OF WASTE	AIR	INTERFERENCE WITH NAMED PROTECTED SPECIES (greater crested newts)	A,B,D,E	Low	2	Very Low	SYSTEMS IN PLACE TO CONTROL AND PREVENT EMISSIONS OF SUBSTANCES AS DETAILED IN MANAGEMENT SYSTEM INCLUDING PROVISION OF BUILDINGS FOR RECEPTION AND PROCESSING OF MIXED WASTES INCLUDING WASTE FOR PRODUCTION. DUST MANAGEMENT PLAN IN PLACE IN PERIODS OF DRY WEATHER, DUST TO BE SUPPRESSED USING A BOWSER ALL VEHICLE RUNNING SURFACES TO BE KEPT FREE FROM MUD AND DEBRIS VEHICLES WILL BE SHEETED ON ENTRY TO AND EXIT FROM THE SITE. SITE INSPECTIONS WILL BE CARRIED OUT PERIODICALLY AND ALL OPERATIVES WILL RECEIVE RELEVANT TRAINING MONITORING OF EMISSIONS TO ENSURE NO FUGITIVE EMISSIONS
21	NOISE AND VIBRATION	USE OF PLANT AND VEHICLE MOVEMENT ON SITE	THROUGH THE AIR	DISTURBANCE OF WILDLIFE SPECIES INCLUDING GREATER CRESTED NEWTS	A,B,D,	Mo	2	Low	ALL WASTE MANAGEMENT OPERATIONS WILL BE UNDERTAKEN TO MINIMISE EXCESSIVE NOISE BEYOND SITE BOUNDARY. ALL VEHICLES AND PLANT WILL BE FITTED WITH EFFECTIVE SILENCERS, ARE WELL MAINTAINED AND INSPECTED ON A REGULAR BASIS. DRIVERS WILL ADHERE TO THE STRICT 10MPH SPEED LIMIT, ENGINES SWITCHED OFF WHEN NOT IN USE AND REVVING KEPT TO A MINIMUM. AVOIDANCE OF LOUD CAB RADIOS AND BLOWING HORNS. PLACEMENT OF SKIPS WILL BE UNDERTAKEN WITHOUT EXCESSIVE BANGING. PRELIMINARY ECOLOGICAL APPRAISAL REPORT AND ECOLOGICAL IMPACT ASSESSMENT HAVE BEEN UNDERTAKEN. LIAISING WITH LOCAL AUTHORITY CONSERVATION OFFICER TO ENSURE SITE PREPARATION AND WASTE MANAGEMENT OPERATIONS CAUSE MINIMAL DISTURBANCE TO WILDLIFE AND THEIR HABITATS ARE PROTECTED AND EVEN ENHANCED.