

**End User License Agreement**
**PLEASE READ THIS AGREEMENT CAREFULLY.**

THIS END USER LICENSE AGREEMENT ("AGREEMENT") IS BETWEEN HFL RISK SERVICES LIMITED (THE "COMPANY") AND THE PERSON WHO OPENS THIS PACKAGE OR USES THE SOFTWARE WHICH ACCOMPANIES THIS AGREEMENT (THE "USER"). THIS AGREEMENT GIVES A USER THE RIGHT TO ACCESS AND USE THE COMPANY'S PRODUCTS AND SERVICES ("PRODUCTS") PURCHASED FROM THE COMPANY, ITS RESELLERS OR AGENTS PURSUANT TO A PURCHASE AGREEMENT, CONTRACT, SALES ORDER, INVOICE OR SIMILAR DOCUMENT ("PURCHASE CONTRACT"). THE COMPANY IS WILLING TO GRANT A USER THE RIGHT TO ACCESS AND USE THE COMPANY'S PRODUCTS ONLY IF THE USER ACCEPTS ALL OF THE TERMS OF THIS AGREEMENT, AND PAYS OR HAS PAID THE COMPANY, ITS RESELLERS OR AGENTS, THE FULL PURCHASE PRICE (TO INCLUDE ALL APPLICABLE TAXES AND FEES) FOR USE OF THE LICENSE TO THE PRODUCTS PURCHASED.

THE USER ACKNOWLEDGES THAT USER HAS READ THIS AGREEMENT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY IT. IF THE USER DOES NOT AGREE TO ALL OF THE TERMS IN THIS AGREEMENT, THE USER SHOULD NOT ACCESS OR OTHERWISE UTILIZE THE PRODUCTS BECAUSE NO LICENSE SHALL HAVE BEEN GRANTED THERETO.

**1. LICENSE.**

In consideration of the payment of the purchase price for the right to use Company's Products, and the User's adherence to all provisions of this Agreement, the Company grants the User a personal, non-exclusive, non-transferable license to access and use the Company's Products covered hereunder for the sole purpose of accessing and/or completing the associated training purchased under the Purchase Contract.

**2. RESTRICTIONS.**

User may not use, copy, modify, or transfer the Products to others, in whole or in part, except as expressly provided in this Agreement. The Products contains trade secrets of the Company, and the User may not reverse engineer, disassemble, decompile, or translate the Products, or otherwise attempt to derive its source code or the source code through which the Products is accessed, or authorize any third-party to do any of the foregoing. The license granted hereunder is personal to the User, and any attempt by the User to transfer any of the rights, duties or obligations hereunder shall terminate this Agreement and be void. The User may not rent, lease, loan, resell, or distribute the Products or any part thereof in any way including, but not limited to, making the Products available to others via shared access to a single computer, a computer network, or by sharing access information, which includes the User's Username and Password.

**3. OWNERSHIP.**

The Company's Products are the property of the Company and its licensor(s), if any, and subject to applicable patent, copyright, trade secrets, trademarks and other proprietary rights. The Products are licensed, not sold, to the User for use only under the terms of this Agreement, and the Company reserves all rights not expressly granted to the User.

**4. INTELLECTUAL PROPERTY RIGHTS**

The Customer will keep the Company indemnified in full against all liability, loss, damage, injury, claim, action, demand, expense or proceeding in respect of any infringement or alleged infringement of any IPR resulting from any use by the Company of the Customers Property or any compliance by the Company with the Customer's instructions, whether express or implied.

The IPR in all works owned by the Company prior to the date of the Contract ("Existing IPR") will remain vested in the Company. The IPR in all Works provided by the Company pursuant to this Contract will also remain vested in the Company.

Provided that the Customer is not in default of any payment obligation arising under the Contract, the Company grants to the Customer a non-exclusive, royalty free licence to make use of such IPR for the purposes envisaged in the Contract.

Where the Works are not manufactured or performed by the Company the Company gives no assurance or guarantee that the use or sale of the Works will not infringe any third party intellectual property rights.

**5. TERMINATION.**

This Agreement will terminate immediately if the User breaches any term of this Agreement. Further, in the event of a termination or expiration of any agreement between the Company and a third-party content provider or licensor of all or a part of the Products, the User's right to access and use the Products may also terminate or expire without prior notice to User. A User may terminate this Agreement at any time by notifying the Company in writing. Upon receipt of notice of termination from the User, the license and the User's access to the Products shall cease. Upon termination, any refund to which the User may be entitled shall be determined in accordance with the terms of the applicable Purchase Contract.

**6. CONTENT MAINTAINED BY THE COMPANY.**

User acknowledges and understands that: (a) the Company may, from time to time, elect to update the Products, but the Company does not warrant or guarantee that any Products or other information accessed through the Company's website(s) will be updated at any time during the term of this Agreement; and (b) the Company does not recommend, warrant or guarantee the use or performance of any third-party product or service described in the Products or elsewhere in the Company's website(s), nor is the Company responsible for malfunction of such products or services due to errors in the Products, the User's negligence or otherwise. User agrees to seek additional information on any third-party product or service from the respective third party. The User covenants that it will use the Products only as a reference and study aid, and acknowledge that the Products are not intended to be used as a substitute for the exercise of professional judgement.

**8. WARRANTY DISCLAIMER.**

EXCEPT AS EXPRESSLY PROVIDED HEREIN, THE COMPANY'S PRODUCTS ARE PROVIDED "AS IS" AND THE COMPANY MAKES NO REPRESENTATIONS OR WARRANTIES. THE COMPANY EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, OF ANY KIND, FOR THE PRODUCTS AND ANY OTHER MATERIAL PROVIDED TO USER BY THE COMPANY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF THIRD PARTY RIGHTS. THE COMPANY DOES NOT WARRANT THAT THE PRODUCTS ARE ERROR-FREE, THAT THEIR OPERATION WILL BE UNINTERRUPTED, OR THAT PRODUCTS WILL MEET ANY PARTICULAR USER REQUIREMENTS. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, THE COMPANY MAKES NO WARRANTY, AND PROVIDES NO ASSURANCE, THAT THE PRODUCTS WILL MEET CERTIFICATION REQUIREMENTS OF ANY REGULATORY AUTHORITY OR OTHER ASSOCIATION LICENSING AGENCY, WITHIN OR OUTSIDE OF THE UK.

**9. LIMITATION OF LIABILITY.**

Except as specifically provided herein, neither the Company, its affiliates, resellers, agents, or licensors, if any, shall be liable for any claim, demand or action arising out of, or relating to, the User's use of the Products or the Company's performance of (or failure to perform) any obligation under this Agreement or for special, incidental or consequential damages, including, without limitation, damages due to lost revenues or profits, business interruption, or other damages caused by User's inability to use the Products, even if the Company, its affiliates, resellers, agents, or licensors have been advised of the possibility of such loss or damages, and whether or not such loss or damages is or are foreseeable.

**10. EXPORT LAW.**

The Company's Products are subject to U.K. export control laws and may be subject to export or import regulations in other countries. Unless in compliance with applicable law and specifically authorized in writing by the Company prior to any Product access, the User shall not export the Products under any circumstances whatsoever. In any case, the User will indemnify and hold the Company harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including reasonable legal fees) arising from, or relating to, any breach by the User of the User's obligations under this section.

**11. GOVERNING LAW, JURISDICTION AND VENUE.**

This Agreement shall for all purposes be governed by English law and the parties submit to the exclusive jurisdiction of the English courts.

**12. LEGAL FEES.**

If any legal action or proceeding is brought for the enforcement of this Agreement or arises from the alleged breach, dispute, default or misrepresentation in connection with any of the provisions of this Agreement, the prevailing party or parties shall be entitled to recover reasonable legal fees and other costs incurred as a result of such legal action or proceeding.

**13. WAIVER.**

No failure to enforce any term of this Agreement shall constitute a waiver of such term in the future unless such waiver so provides by its terms.

**14. ASSIGNMENT.**

Neither this Agreement nor any of the User's rights or obligations hereunder may be assigned by the User in whole or in part without the prior written approval of the Company. Any other attempted assignment shall be null and void.

**15. SEVERABILITY.**

If any part of this Agreement is for any reason found to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions of this Agreement shall not be affected and same shall remain in effect.

**16. COMPLETE AGREEMENT.**

This Agreement is the complete and exclusive statement of the agreement between the Company and the User with respect to its subject matter, and supersedes and voids any proposal or prior agreement, oral or written, and any other communications between the parties in relation to its subject matter. No waiver, alteration or modification of this Agreement shall be valid unless made in writing and signed by a corporate officer of the Company.

HFL RISK SERVICES LIMITED: HAZARD IDENTIFICATION ANALYSIS

Hazard System: A - CTF

System Title: CTF - Raw Material and Waste Chemical Handling / Storage

Date: 11 August 2021

Revision Date:

Revision: 1

References:

- Brief System Description:**
1. Raw Material Offloading - Drums, 25 litre carboys and IBCs are delivered by lorry (mostly from Brentnag). The lorry is located in the bonded area. They are removed by FLT. IBCs are temporarily located within the bonded area until used. Drums and carboys are taken to the bonded storage area in CTF. Substances include 50% NaOH and 40% Hydrofluoric Acid
  2. Empty Containers for disposal
  3. Pumping waste chemicals to IBCs for disposal - IBCs are filled with waste materials by pumping from waste storage using flexible hoses. Infrequent operation (normally use Vacuum tanker). Two man operation
  4. 'Pump Over' of Raw Materials  
1,000 litres of various acidic or alkaline materials are offloaded from IBC tanks on the back of a flat bed lorry at CTF via Kamlock couplings including 32% Sodium Hydroxide, 47% NaOH and 40% hydrofluoric acid. Offloaded from 1000 litre tank welded plastic tanks by delivery driver with BAE operator present
  5. Solid & Powder Raw Materials Delivery and Storage - 25 kg bags / sacks are delivered on pallets, offloaded by FLT and moved to the storage area inside the building. The materials present no significant process safety hazards.
  6. Vacuum Tanker used to remove large volumes of hazardous substances from site - See System M
  7. 'Desludging' of tanks - See System M

**Attendees:** Steve Combes (Co / Mgr)  
Dan Dean (SHE)  
Andy Parnham (SHE)  
Paul Harley (Portman Risk Ltd)

2021 Review Process:

The original HAZID (Rev 0) was conducted in 2013. The HAZID has been reviewed and it considered proportionate that the '5 year review' is conducted as an 'Update and revalidate' based on the guidance provided in COPS 'Revalidating Process Hazard Analyses'. This is based on the relative simplicity of the HAZID and 'lack of significant change'. It was also agreed that a smaller team could be used for the review on this basis and to minimise people being together during COVID.

During the review process, it became apparent that there was a significant repetition in System BE (Raw Material Handling for New PFD and Andros Lines), and a lack of cross-reference to System M (CTF - General Road Tanker Operations). Therefore, where possible, System BE has been consolidated into this system and System M has been cross-referenced above.

This section has been re-written with more details, to provide clarity on the various operations originally considered. The number order of the Events below may also have been changed to group items to improve the readability of this assessment. Where scenarios have been copied from System BE, these are cross-referenced.

Although a lot of formatting changes have been made, the substance of this assessment remains very similar to the previous documents. Therefore, it is considered that this process remains a 'review & update' rather than a 'redo', based on the COPS guidance.

SYSTEM: CTF - Raw Material and Waste Chemical Handling / Storage																
System No. / Event No.	Scenario Definition			Prevention, Control & Mitigation Safeguards				Residual Risk		Revisions						
	Deviation	Cause and Initiating Event(s)	Hazard Scenario	Worst Case Unmitigated Consequences	Risk Type	S	L	Inherent Safety Features (Process & Equipment Design)	Process Control Systems (Process Control, Interlocks, Alarms)		Physical Protection Systems (Pressure Relief, Bumps)	People & Procedures (PPE, PPE Management Systems)	S	L	Risk Group	Actions, Comments and What more can be done?
<b>1. Raw Material Offloading at CTF (IBCs, Drums, etc)</b>																
C1-11	Loss of Containment	Mechanical Failure	Drums / IBCs leaking on arrival	Material leaks from seams or hose damage & toxic, corrosive, DIE. Worst case would be HF	P	2	6	Containers are UN approved for transport	None identified	1. Bonded storage areas 2. Offloading area is fully bonded	1. Trained operators 2. Spill kits 3. Delimiters checked for leaks prior to off-loading	2	5	M		
C1-7	Loss of Containment	Human Error	Drum / IBC opened by FLT	Release of drum contents to work area. Material is toxic, corrosive, DIE. Worst case would be HF	P	2	8	Standard operation with clear visibility etc.	None identified	1. Bonded storage areas 2. Offloading area is fully bonded	1. Trained FLT operators (including refuelers) 2. Spill kits	2	5	M		
C1-8	Loss of Containment	Human Error	Drum / IBC Dropped	Release of drum contents to work area. Material is toxic, corrosive, DIE. Worst case would be HF	P	2	8	Standard operation with clear visibility etc. Surfaces are flat, level and covered	None identified	1. Bonded storage areas 2. Offloading area is fully bonded 3. Safety straps used when transporting along road	1. Trained FLT operators (including refuelers) 2. Spill kits 3. Site speed limit	2	5	M		
C1-12	Loss of Containment	Human Error	Wrong materials received / offloaded, leading to incompatible mixing later (dangerous incident)	Acids / Bases/alkalis mixed in error with possible reaction. Assume single facility	P	3	7	None identified	None identified	1. Bonded storage areas	1. Containers are clearly identified 2. Containers are orientated on delivery vehicle to allow all labels to be easily seen 3. Only one person currently orders chemicals, so is responsible for items 4. Delivery paperwork is checked 5. Later inspections would also look at training	3	4	M		
<b>2. Empty Containers from disposal</b>																
C1-13	Loss of Containment		Leaks from empty containers	Containers are normally empty and no flammable liquids No significant hazard identified	P			Not applicable	Not applicable	Not applicable	Not applicable					No actions identified
<b>3. Pumping waste chemicals to IBCs for disposal</b>																
C1-1	Overpressure	Storage	IBCs filled on open top	No significant hazard identified	P			Not applicable	Not applicable	Not applicable	Not applicable					No actions identified
C1-3	Overflowing	Human Error	Operator fails to stop delivery when IBC is full	Material overfills the top of the drum / IBC and spills on the floor Material is toxic, corrosive, DIE. Worst case would be HF contacting eye/s	P	3	8	None identified	None identified	1. Bonded area	1. Trained operators 2. SOP with IBC checked for overflow 3. Chemical spill team 4. PPE if containers used 5. Spill kits 6. Two man operation in Chems with	3	5	M	1. Review use of contractors and issuing of permits (permit-to-work) contractor correctly manage 2. Review how communication is maintained between the person checking the IBC does not overflow, and the person who can turn the pump off.	
C1-4	Over Temperature	Not applicable	Not applicable	Ambient temperature Significant hazard identified	No	P		Not applicable	Not applicable	Not applicable	Not applicable					No actions identified
C1-5	Under Temperature	Not applicable	Not applicable	Ambient temperature Significant hazard identified	No	P		Not applicable	Not applicable	Not applicable	Not applicable					No actions identified
C1-6	Loss of Containment	Mechanical Failure	Drums / IBCs leak	Material leaks from seams or hose. Material is toxic, corrosive, DIE. Worst case would be HF	P	2	6	Containers are UN approved for transport	None identified	1. Bonded storage areas 2. Only new IBCs filled 3. Small overflows on site - always maintained & instantly identified 4. CTF offloading area is bonded	1. Trained operators 2. Spill kits 3. Delimiters checked for leaks prior to off-loading at Chems with	2	5	M		No actions identified
C1-9	Loss of Containment	Mechanical Failure	Process hose failure	Spilling in the release of tank contents. Material is corrosive, DIE. Worst case would be HF	P	2	6	None identified	None identified	1. Bonded area 2. CTF offloading area is bonded 3. Hose likely to leak then rupture	1. Spill kits 2. Chems cover 3. Hose register and visual PPE inspections	2	4	M		No actions identified
C1-10	Loss of Containment	Human Error	IBC cap not secured	Material splashes out of the top of the drum. May result in Small release in bonded offsite	P	2	8	None identified	None identified	1. Bonded area	1. Trained operators 2. Spill kits 3. Chems covers	2	6	M		No actions identified
<b>4. 'Pump Over' of Raw Materials</b>																
C1-15	Loss of Containment	Impact	RTA in offloading bay	Lorry hits and/or vehicle struck located in the offloading bay area. Worst case could be release of tanker contents (corrosive material) or single fatality due to impact	P	3	7	Lorrys are risk rated based on weight and low traffic area. Making collision very unlikely	1. Barrier and Guard system limits potential for lorry vehicles to be present	1. Bonded area	1. Trained operators 2. SOP / PPE 3. Trained driver 4. Very infrequent activity to have more than one tanker in the area (<1yr) 5. Emergency procedures	3	4	M		No actions identified
C1-16	Loss of Containment	Human Error	Lorry drives away while still connected to pipework	Worst case is loss of 1000 litres from container or loss from damaged pipework on lorry (HF) Material could be toxic, corrosive and DIE. Fatality. Release may be outside bonded area if driver is not alerted	P	3	8	None identified	None identified	1. Bonded area 2. On some vehicles, there is an electrical breaker on the air compressor and the brake / engine to prevent disconnection	1. Trained operators 2. SOP 3. Trained driver 4. Emergency procedures 5. Driver wearing chemical suit 6. BAE operator standing by in chemical suit	3	4	M		No actions identified
C1-17	Loss of Containment	Mechanical Failure	Hose failure - resulting in large release of contents, toxic, DIE	Spill release of corrosive material, in the work area. Material is corrosive, toxic, and DIE	P	3	8	None identified	None identified	1. Bonded area 2. Hoses checked by supplier	1. Trained operators 2. Trained driver 3. Trained driver 4. Emergency procedures 5. Driver wearing chemical suit 6. BAE operator standing by in chemical suit	3	4	M		No actions identified
C1-18	Loss of Containment	Mechanical Failure	Calibration failure of container on lorry	Worst case is loss of entire container (300-1000 litres) due to over pressurisation by discharge system. Material could be toxic, corrosive and DIE. Fatality	P	3	8	1. System designed for this pressure 2. IBC containers suitable for road use	1. System pressure limited to maximum pressure of container (e.g. relief valve)	1. Bonded area	1. Containers tested by supplier 2. Emergency procedures	3	4	M	1. Confirm with supplier how the over pressurisation of the containers is prevented.	
C1-19	Loss of Containment	Human Error	Hose not emptied before disconnection	Release of small amount of material to the contained area (up to 100 litres) Material is corrosive, and DIE	P	3	8	None identified	None identified	1. Bonded area 2. Hoses checked by supplier	1. Trained operators 2. SOP / PPE 3. Full chemical suit and shoe 4. Trained driver present 5. Emergency procedures	2	5	M		No actions identified
C1-20	Overflowing	Human Error	Storage tank is overfilled to inadequate space for transfer	Worst case is 1000 litre overflow assuming tank was already full following a previous container transfer. Material overflows into overflow pipe into base of bund	P	2	8	1. Large hose overflow pipe fitted which is directed into bund (prevent splashing incident)	1. High level detection which closes transfer line	1. Tanks have separate bund which prevents discharge to water contained area	1. Trained operators 2. SOP / PPE 3. Full chemical suit and shoe 4. Trained driver present 5. Emergency procedures	2	5	M		No actions identified

C1	21	Loss of Containment	Human Error	Carboys are damaged in the CTF storage areas while being moved to the line, allowing release of Corrosive, toxic, DE materials inside the building	Worst case 0.25 lbs release of Corrosive, toxic, DE materials inside the building	P 2 8 E 1 8	1. Storage area has no access for P/Ts or overhead cranes etc.	1. Gas detection (active) located around bund at the line level with audible / visual alarm 2. High level detection in sump with audible / visual alarm	1. Bund is formed by a large trench with 1100 lbs capacity 2. Containers are moved in small batches which have a self contained 25 lbs bund	1. Trained operators 2. Emergency procedures 3. Only very limited use of P/Ts in the CTF building	2 5 M 1 5 L	No actions identified	1
C1	22	Overpressure	Mechanical Failure (orginally System BE 1)	Went on storage tank blocks	0' even reached vent No credible scenarios identified	P E	Not applicable	Not applicable	Not applicable	Not applicable		1. Ensure vents are on PPM	1
C1	23	Overpressure	Human Error (orginally System BE 2)	Valves in transfer line to bulk tanks closed	Overpressurization of the sump potential for rupture - operator injury	P 2 8 E 1 8	None identified	None identified	1. Flows suitable for duty 2. Bunded area 3. Restricted access during off-loading	1. Trained operator normally removes by tank vented filling 2. SOP for filling 3. Delivery driver cross checks available space in caustic tank 4. Parameters checked and signed off before transfer started 5. Level systems on PPM	2 5 M 1 5 L	No further actions identified	1
C1	24	Overflowing	Mechanical Failure (orginally System BE 6)	Failure of level indication on bulk tanks	Tank overflowed. Loss of 1 - 2m <sup>3</sup> of material	P 2 8 E 1 8	None identified	1. Two independent level sensors which cross check each other	1. Bunded area 2. Restricted access during off-loading	1. SOP 2. Trained operator 3. Driver cross check levels 4. Full PPE worn during off-loading	2 4 M 1 4 L	No further actions identified	1
C1	25	Overflowing	Human Error (orginally System BE 1)	Operator misreads levels in bulk tanks	Tank overflowed. Loss of 1 - 2m <sup>3</sup> of material	P 2 8 E 1 8	None identified	1. Two independent level sensors which cross check each other	1. Bunded area 2. Restricted access during off-loading	1. SOP 2. Trained operator 3. Driver cross check levels 4. Full PPE worn during off-loading	2 4 M 1 4 L	No further actions identified	1
C1	26	Loss of Containment	Mechanical Failure (orginally System BE 16)	Catastrophic failure of bulk tanks	Loss of up to 1 - 2m <sup>3</sup> of DTE, T, T <sub>2</sub> corrosive allowing a loss of the contents to the bund	P 2 8 E 2 8	None identified	1. Level detection between tank shells 2. Level detection in bund sump	1. Bunded storage area 2. Double skinned tanks 3. No rollers at base of tank 4. Bore hole to tank from rupture	1. Tanks inspected 2. Spill kits and procedures	2 4 M 2 4 L	No further actions identified	1
C1	27	Loss of Containment	Human Error (orginally System BE 16)	Impact on bulk tanks	Loss of material to bunded area	P 2 8 E 2 8	None identified	1. Bund sump level alarm	1. Alarms beeping 2. Bunded area	1. Trained drivers 2. Site speed limit of 20mph	2 5 M 2 5 L	No further actions identified	1
C1	28	Others	Human Error (orginally System BE 20)	Wrong material charged e.g caustic into acid tank	0 exothermic reaction. Possible rupture of tank Release of in excess amounts of fumes	P 4 8 E 2 8	None identified	None identified	1. Bunded tanks 2. Different connectors for incompatible chemicals	1. Trained operator normally removes by tank vented filling 2. SOP for filling 3. Delivery driver cross checks available space in correct tank 4. Parameters checked and signed off before transfer started 5. Tanks clearly labelled	4 4 M 2 4 L	No further actions identified	1
<b>S. Solid &amp; Powder Raw Materials</b>													
C1	29	Loss of Containment	Mechanical Failure (orginally System BE 16)	Bags of chemicals split	Loss of material to floor which can dissolve in rainwater and enter drains	P 1 7 E 3 7	Materials purchased in action form where this is proportionate to the risk	None identified	1. Bags shrink wrapped on delivery	1. Spill kits and procedures 2. Bunded operators / FLT drivers	2 5 M 3 5 L		1

Total Scenarios: 29  
 Last Scenario Reference: A-C1P 29  
 Total Number of Actions:   
 Last Action Reference:

Category	Residual Risk Summary	
	Risk to People	Risk to the Environment
High		
Medium (if ALARP)		
Low		
Not Applicable		
Total		

# Risk Matrices

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PEOPLE RISK MATRIX											
101-200 fatalities	7										
51-100 fatalities	6										
11-50 fatalities	5										
2-10 fatalities	4										
Single fatality	3										
Major injury	2										
Minor injury	1										
No Injury	0										
<b>Severity</b>		1	2	3	4	5	6	7	8	9	10
<b>Likelihood</b>		< 10 <sup>-7</sup>	10 <sup>-7</sup> to 10 <sup>-6</sup>	10 <sup>-6</sup> to 10 <sup>-5</sup>	10 <sup>-5</sup> to 10 <sup>-4</sup>	10 <sup>-4</sup> to 10 <sup>-3</sup>	10 <sup>-3</sup> to 10 <sup>-2</sup>	10 <sup>-2</sup> to 10 <sup>-1</sup>	10 <sup>-1</sup> to 1	1	>1

Legend		
<span style="background-color: red; color: black;"> </span>	<b>HIGH</b>	Further action essential to reduce the risks to an acceptable level within an agreed upon and specified time.
<span style="background-color: yellow; color: black;"> </span>	<b>MEDIUM</b>	Further action should be considered to reduce the risks as opportunities are recognised. Must be confident that the
<span style="background-color: green; color: black;"> </span>	<b>LOW</b>	No mitigation required but further action may be considered to reduce the risks.
<span style="background-color: brown; color: black;"> </span>	<b>HIGH Boundary (Offsite Risk)</b>	Further action essential to reduce the risks to an acceptable level within an agreed upon and specified time.

ENVIRONMENT RISK MATRIX											
MATTE	7										
Offsite on Listed Sites	6										
Offsite on Listed Sites	5										
Offsite on Unlisted	4										
Minor Offsite Effects	3										
Onsite Effects	2										
Minor Onsite Effects	1										
Minor Spill	0										
<b>Severity</b>		1	2	3	4	5	6	7	8	9	10
<b>Likelihood</b>		< 10 <sup>-7</sup>	10 <sup>-7</sup> to 10 <sup>-6</sup>	10 <sup>-6</sup> to 10 <sup>-5</sup>	10 <sup>-5</sup> to 10 <sup>-4</sup>	10 <sup>-4</sup> to 10 <sup>-3</sup>	10 <sup>-3</sup> to 10 <sup>-2</sup>	10 <sup>-2</sup> to 10 <sup>-1</sup>	10 <sup>-1</sup> to 1	1	>1

Legend		
<span style="background-color: red; color: black;"> </span>	<b>HIGH</b>	Further action essential to reduce the risks to an acceptable level within an agreed upon and specified time.
<span style="background-color: yellow; color: black;"> </span>	<b>MEDIUM</b>	Further action should be considered to reduce the risks as opportunities are recognised. Must be confident that the
<span style="background-color: green; color: black;"> </span>	<b>LOW</b>	No mitigation required but further action may be considered to reduce the risks.