



Form No:	EN-f-024	Title:	Environmental Aspects and Impacts Risks Assessment - INTRODUCTION		
Template Issue No:	V1.1	Issue Date:	Apr-22	Approved by:	Ellis Ashton

Tab 2 of 10

Project Name:	Kimmel Bay Costal Defence Improvements	Project Number:	C4215
Activity:	Sea Side and Land Side Works	Author/Responsible Person:	Gemma Roebuck
Date:	10/06/2024	Signature:	G Roebuck

Within the site/project team, the following environmental awareness/competencies are present:

Name:	Role:	Environmental Qualification
Sam Roberts	Project Manager	SEATS, SMSTS, Spill Kit Training
Gareth Jones	Works Manager	SEATS, SMSTS, Spill Kit Training
Joe Griffiths	Foreman	SEATS, SMSTS, Spill Kit Training

Revision No.	Review Comments:	Reviewed by:	Date:

INTRODUCTION

The Risks tabs on this spreadsheet capture the Environmental Aspects of Jones Bros activities, products and services, that we control and influence throughout stages of our Projects, from Planning through to Maintenance. They also capture the subsequent Environmental Impacts and consider the process from a Life Cycle perspective.

In considering the Environmental Aspects, we have taken into account:

- a) Planned or new developments, activities & services
- b) Foreseeable abnormal and emergency situations.

Using compliance obligation as the criteria, those Aspects that have a potential Significant Impact are highlighted on the Risks tabs (LAND/WATER/ECOLOGY/ WASTE/NUISANCE/AIR QUALITY/HERITAGE). Significant impacts are drawn from:

WW-f-008 - Project Risk Register

WW-f-008 is formed from Pre-Construction Information and the tender enquiry stage (by the Design & Construction Management Team). The Life Cycle (below) shows the categorised stages of Jones Bros Projects, into which the Aspects highlighted in the Risks tabs of this document have been documented.

Life Cycle stages of Jones Bros' Projects and permanent locations, which have their own Environmental Aspects & Impacts:

Planning - The planning of project scope, personnel and requirements to achieve the aims of the project, which feeds into the design.

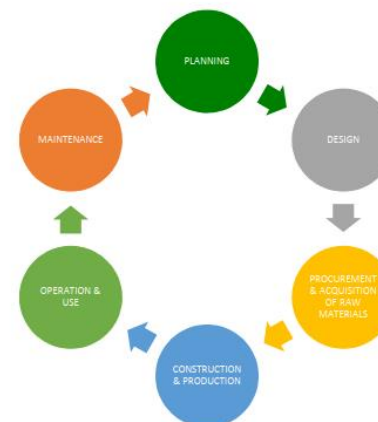
Design - Designing to incorporate disassembly to increase reuse of resources as well as designing out waste, Quantity Surveying to determine required procurement quantities, and ensuring environmental aspects are planned into the design for later project stages.

Procurement & Acquisition of Raw Materials - Considering procurement of locally-sourced sustainable product suppliers and subcontractors with verified status; length of supply chain and associated environmental impact; ordering calculated quantities to minimise supply chain waste; and considering materials, plant and vehicles of a suitable quality to increase lifetime and minimise maintenance intervals.

Construction & Production - Use of plant, vehicles (for transportation and delivery), equipment and materials in a sustainable and safe manner which minimises pollution risk and takes into account end-of-life to create a product or provide a service, reduction in energy consumption during the construction phase through minimising delivery and workforce travel mileage by adhering to the aforementioned procurement strategy, protection and preservation of ecological and cultural assets, as well as minimisation of statutory nuisance impacts to identified receptors.

Operation & Use - Use of the design and procurement stages to construct an operationally efficient project, promoting sustainable running and use of the company's permanent office spaces, as well as considering end of life treatment and disposal of wastes.

Maintenance - Planning and undertaking maintenance to ensure long term environmental aspects are managed to minimise impacts to the environment during construction from plant and vehicles and the site, post-construction.



Environmental Aspects and Impacts Risks Assessment - LAND Risks								Tab 3 of 10	
Please populate electronically, all blank cells below highlighted in light blue, except column I which will self populate. If necessary, the cells in white can also be amended to be made site specific.									
LAND Risks									
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register
Planning				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely		Colour Key to Risk Rating: 0 = INSIGNIFICANT 1-3 = LOW 4-10 = MEDIUM 10+ = HIGH Please specify any others below:
Design				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely		
Procurement & Acquisition of Raw Materials				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely		
Construction & Production				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely		
Operation & Use				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely		
Maintenance				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain	10+ = HIGH	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles									
Construction & Production, Maintenance	Spilling white diesel / oil / petrol / ad blue or other items of COSHH when refuelling or undertaking maintenance works	Contamination of land causing harm to flora and wildlife	Emergency	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	3	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surveys & Site Clearance									
Construction & Production	Clearance of vegetation without sign off from ECoW	Damage to habitats	Emergency	3	3	HS-f-105 Project Plan Workbook	1	3	
Construction & Production, Planning, Design	Discovery of previously unknown contamination	Pollution to land adjacent to contaminated stands, killing vegetation, wildlife and potentially getting into the food chain	Emergency	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	3	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Earthworks									
Construction & Production	Erosion of bare soil due to poor soil and water management	Loss of topsoil and local provenance seed bank	Normal	3	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surfacing Works									
Construction & Production	Spilling concrete onto ground during washing out of chutes	Contamination of soil causing harm to flora and wildlife	Normal	3	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Managing Fuels, Oils and Other Chemicals/COSHH									
Construction & Production, Maintenance	Spillages due to poor COSHH use/storage practices	Pollution to land, degrading soil quality and impacting wildlife	Abnormal	3	2	EN-f-015 Pollution Control Plan	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE									
Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH									

Environmental Aspects and Impacts Risks Assessment - WATER Risks

Tab 4 of 10

Please populate electronically, all blank cells below highlighted in light blue, except column I which will self populate. If necessary, the cells in white can also be amended to be made site specific.

WATER Risks									
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register
Planning				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely		Colour Key to Risk Rating: 0 = INSIGNIFICANT 1 - 3 = LOW 4 - 10 = MEDIUM 10+ = HIGH
Design				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely		
Procurement & Acquisition of Raw Materials				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely		
Construction & Production				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely		
Operation & Use				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely		
Maintenance				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain		Please specify any others below:
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles									
Construction & Production, Maintenance	Spilling white diesel / oil / petrol / ad blue or other items of COSHH when refuelling or undertaking maintenance works	Contamination of watercourses and drains causing harm to aquatic life	Emergency	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	2	6	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Earthworks									
Construction & Production	Erosion of bare soil due to poor soil and water management	Silt pollution to local watercourses	Emergency	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	2	6	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surfacing Works									
Construction & Production	Spilling concrete into watercourse during washing out of chutes	Contamination of watercourse causing harm aquatic life	Normal	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	2	6	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Managing Fuels, Oils and Other Chemicals/COSHH									
Construction & Production	Discharge of contaminated / hazardous materials	Pollution to watercourses, killing aquatic life	Emergency	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	3	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Operation of Cabins									
Procurement & Acquisition of Raw Materials	Excessive water consumption	Depletion of finite resource	Normal	2	2	HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE									
Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH									

Environmental Aspects and Impacts Risks Assessment - ECOLOGY Risks

Tab 5 of 10

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ECOLOGY Risks									
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register
Planning									
Design									
Procurement & Acquisition of Raw Materials				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely	Colour Key to Risk Rating:	
				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely		
				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely	0 = INSIGNIFICANT	
Construction & Production				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely	1 - 3 = LOW	
Operation & Use				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely	4 - 10 = MEDIUM	
Maintenance				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain	10+ = HIGH	Please specify any others below:
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles									
Construction & Production, Maintenance	Spilling white diesel / oil / petrol / ad blue or other items of COSHH when refuelling or undertaking maintenance works	Contamination of water causing harm to aquatic life	Emergency	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	2	6	
Construction & Production, Maintenance	Physical damage to root system when working near trees	Disturbance or destruction of natural habitat	Abnormal	2	2	HS-f-105 Project Plan Workbook	1	2	
Construction & Production, Maintenance	Over abstraction of water from watercourse	Disturbance or destruction of natural habitat	Abnormal	2	2	HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surfacing Works									
Construction & Production	Spilling concrete into environment and destroying habitats during washing out of chutes	Contamination of habitats causing harm to wildlife	Normal	3	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Construction & Production	Light/noise/vibration from surfacing works taking place in day/night time	Disturbance to local wildlife such as nesting birds and bats	Normal	3	1	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	1	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Earthworks									
Construction & Production	Loss of local provenance seed bank due to erosion and poor management of topsoil	Ecosystem becomes unbalanced, impacting populations of species	Abnormal	2	2	HS-f-105 Project Plan Workbook	1	2	
Construction & Production	Stockpiled soil attracting burrowing/tunnelling wildlife	Species such as Badgers, Rabbits and Sand Martens being harmed or habitats being destructed upon reinstatement of stockpiled soils	Abnormal	2	2	HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surveys & Site Clearance									
Construction & Production	Clearance of vegetation without sign off from ECoW	Loss of protected habitats & species	Emergency	2	3	HS-f-105 Project Plan Workbook	1	3	
Construction & Production	Spreading of invasive non-native species (INNS)	Harm to ecosystems as balance is disrupted and diversity is reduced	Normal	3	2	HS-f-105 Project Plan Workbook	1	2	
Construction & Production	Discovery of previously unknown contamination	Pollution of the environment causing disruption to ecosystems	Abnormal			EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook			
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE									

Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH

Environmental Aspects and Impacts Risks Assessment - WASTE Risks

Tab 6 of 10

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WASTE Risks									
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register
Planning				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely		
Design				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely		
Procurement & Acquisition of Raw Materials				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely	0 - INSIGNIFICANT	
Construction & Production				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely	1 - 3 - LOW	
Operation & Use				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely	4 - 10 - MEDIUM	
Maintenance				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain	10+ - HIGH	Please specify any others below:
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Managing Waste									
Construction & Production, Maintenance	Waste storage	Pollution to the environment as a result of spillages/leaks, Arson/fire hazard as a result of leak of hazardous waste or unwanted access	Normal	3	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	2	6	
Construction & Production, Maintenance	Illegal movement and disposal of waste	Pollution to the environment, resulting in harm or death of habitats, wildlife, aquatic life or humans and subsequent fines/enforcement	Emergency	2	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	3	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles									
Construction & Production, Maintenance	Unnecessary wastage of materials through damage (for example spill kits with water ingress) or excessive use	Finite resource depletion	Abnormal	2	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surfacing Works									
Construction & Production, Procurement	Excessive waste produced due to supply/production of poor-quality materials such as ready mix concrete	Over production of waste, not abiding to waste hierarchy, wasting minerals	Abnormal	2	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Managing Fuels, Oils and Other Chemicals/COSHH									
Construction & Production, Maintenance	Hazardous contaminants leaking/running off from waste containment due to poor storage	Environmental contamination causing harm to wildlife, aquatic life and humans	Emergency	2	3	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	3	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Using & Processing Raw Materials									
Procurement & Acquisition of Raw Materials	Excessive waste produced due to over-ordering	Over production of waste, not abiding to waste hierarchy	Normal	3	2	HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	2	
Construction & Production	Excessive waste produced from not reusing materials or recycling / treating waste materials where possible such as aggregate	Excessive waste going to landfill	Normal	3	2	HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	2	
Activity/Equipment (The specific Activity completed or Equipment required on the Project): Operation of Cabins									
Construction & Production	Excessive waste produced from over-printing, use of single-use equipment (e.g. plastic cups), and wasteful water use	Over production of waste, not abiding to waste hierarchy	Normal	3	2	HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	2	
Construction & Production, Procurement, Acquisition of Raw Materials	Wastage of energy due to poor practices	Excessive use of non-renewable energy	Normal	3	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Construction & Production	Littering causing environmental pollution and attraction of wildlife	Harm to wildlife and habitats causing death; creation of an eye-sore to locals; increased risk of disease from pests such as Weil's disease	Normal	3	3	HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	3	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE									

Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH

Environmental Aspects and Impacts Risks Assessment - NUISANCE Risks

Tab 7 of 10

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NUISANCE Risks									
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register
Planning									Please specify any others below:
Design									
Procurement & Acquisition of Raw Materials				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely	Colour Key to Risk Rating:	
Construction & Production				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely	0 = INSIGNIFICANT	
Operation & Use				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely	1 - 3 = LOW	
Maintenance				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely	4 - 10 = MEDIUM	
				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely	10+ = HIGH	
				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain		
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surfacing Works									
Construction & Production	Light/noise/vibration from works taking place in day/night time	Disturbance to local dwellings and sensitive receptors	Normal	3	1	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	2	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles									
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Managing Transport									
Procurement & Acquisition of Raw Materials, Construction & Production	Use of non-local suppliers & subcontractors	Excessive use of fossil fuels, increasing emissions from the project	Normal	3	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Construction & Production	Heavy traffic caused by site access route	Disruption to local road and NMU route users	Normal	3	2	HS-f-105 Project Plan Workbook	1	2	
Construction & Production	Heavy traffic caused by road closures/traffic management	Disruption to local road and NMU route users	Normal	3	2	HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Managing Waste									
Construction & Production	Attraction of pests and vermin to bins / skips / litter due to poor waste storage	Increased likelihood of infestation to neighbouring properties and contact with pathogens causing e.g. Weil's Disease	Normal	3	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE									

Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH

Environmental Aspects and Impacts Risks Assessment - AIR QUALITY Risks

Tab 8 of 10

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AIR QUALITY Risks									
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register
Planning				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely	Colour Key to Risk Rating:	
Design				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely	0 = INSIGNIFICANT	
Procurement & Acquisition of Raw Materials				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely	1 - 3 = LOW	
Construction & Production				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely	4 - 10 = MEDIUM	
Operation & Use				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely	10+ = HIGH	Please specify any others below:
Maintenance				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain		
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Surfacing Works									
Construction & Production, Procurement & Acquisition of Raw Materials	Dust generated from surfacing works	Degradation of air quality causing harm to workers and locals	Abnormal	2	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles									
Construction & Production, Procurement, Acquisition of Raw Materials, Maintenance	Smoke, fumes and emissions produced from use of badly maintained plant and vehicles	Degradation of air quality, contributing to global greenhouse gas emissions	Normal	2	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Operation of Cabins									
Construction & Production	Release of odour emissions from waste storage areas	Attraction of vermin & pests, disturbance to neighbours	Abnormal	2	2	EN-f-015 Pollution Control Plan HS-f-105 Project Plan Workbook EN-f-010 Site Waste Management Plan	1	2	
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE									
Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH									

Environmental Aspects and Impacts Risks Assessment - HERITAGE Risks

Tab 9 of 10

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HERITAGE Risks										
Specify which Lifecycle Stage(s) apply to the Aspect:	Aspect (Activities, products or services that can interact with the environment)	Impacts (Possible adverse effects caused by a project's activities, products or services)	Conditions (Circumstances under which the impacts are most likely to take place): Normal Abnormal Emergency	P1 (Probability of the Impact affecting the environmental receptor without Control Measures)	S (Severity is a measure of the Impact of a risk or the possible consequences of a hazard)	Control Measures (Mitigation measures and documentation in place to reduce the probability of the Impact)	P2 (Probability of the Impact affecting the environmental receptor with Control Measures)	RR (Residual Risk after mitigation has been put in place to reduce probability of each Aspect)	Compliance Obligation (Legal, Client and/or Company Obligation(s) for consideration of the Aspect) See this link: HSE Legal Register	
Planning				0 - Highly Unlikely	0 - No environmental impact or harm to humans		0 - Highly Unlikely		Colour Key to Risk Rating: 0 = INSIGNIFICANT 1 + 3 = LOW 4 - 10 = MEDIUM 10+ = HIGH	Please specify any others below:
Design				1 - Very Unlikely	1 - Very minor environmental impact or nuisance to humans		1 - Very Unlikely			
Procurement & Acquisition of Raw Materials				2 - Unlikely	2 - Temporary local damage / can cause temporary harm to humans		2 - Unlikely			
Construction & Production				3 - Likely	3 - Permanent local impact / potential to cause human harm to major organs		3 - Likely			
Operation & Use				4 - Very Likely	4 - Global impact that is not permanent / potential to cause major permanent disability-ill health		4 - Very Likely			
Maintenance				5 - Almost Certain	5 - Global impact that is permanent / potential to kill		5 - Almost Certain			
Activity/Equipment (the specific Activity completed or Equipment required on the Project): Purchase, Use & Maintenance of Plant & Vehicles										
Construction & Production, Procurement & Acquisition of Raw Materials, Maintenance	Damage to cultural heritage features as a result of works involving plant and vehicles	Loss of heritage value from a cultural perspective, loss of economic income for local areas as a result of diminished tourism	Emergency	2	2	HS-f-105 Project Plan Workbook	1	2		
Activity/Equipment (the specific Activity completed or Equipment required on the Project): SPARE										
Please add Comments below and include details of Further Controls if the Risk Rating or Significant Score is MEDIUM or HIGH										