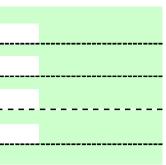
Generic risk assessment for standard rules set number SR2009No2 v4.0

| Standard Facili | ty: | | Low Impact Part A Installation | | | |
|-----------------|--|---|-------------------------------------|--|--|--|
| Location: | | | Applies to all potential locations. | | | |
| Risk assessme | nt carried out by | y : | Environment Agency | | | |
| Date: | | | 06-Apr-12 | | | |
| | The scope of the pe | ermit and associated rules is defined by the | following risk criteria: | | | |
| | Parameter 1 Parameter 2 Parameter 3 Parameter 4 | Permitted activities - The operation of a Part A Low Impact Installation The only wastes allowed to be accepted as part of the operation of the installation are spent ion exchange resins The activities must not be carried out on or immediately adjacent to a European Site, SSSI, National Nature Reserve, Local Nature Reserve There must be no direct discharge of aqueous waste within 10km upstream of a European Site, or a SSSI; within 100 metres upstream of a National Nature Reserve, Local Nature Reserve or Ancient Woodland; or within a National Park. | | | | |
| | Abbreviations: | SR - Standard Rule LII - Low Impact Installation | | | | |

| SSSI - Site of Special Scientific Interest |
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| Data and information | | | | Judgement | | | | Action (by permitting) | |
|----------------------------|---|---|--|-----------------------------------|--------------------|---|---|--|--|
| Receptor | Source | Harm | Pathway | Probability of exposure | Conseque nce | Magnitude of risk | Justification for magnitude | Risk management | Residual risk |
| What do I wish to protect? | What is the agent or process with potential to cause harm? | | How might the receptor come into contact with the source? | How likely is this contact? | severe will the | What is the overall magnitude of the risk? | On what did I base my judgement? | reduce the magnitude? | What is the magnitude of the risk after management? (This residual risk will be controlled by Compliance Assessment). |
| Local human population | Releases of particulate matter (dusts) and volatile organic compounds (VOCs). | irritation and illness. | Air transport then inhalation. | Low | Low | Low | The installation must comply with the LII criteria without having to rely on active abatement for releases to the environment outside of any buildings. There is low potential for exposure if anyone is living or working close to the site (apart from the operator and employees) | SR - activities must be operated in accordance with LII criteria, SR - emissions of substances not controlled by emission limits SR (if required) - emissions management plan. | Very Low |
| Local human population | As above (dust) | Nuisance - dust on cars, clothing etc. | Air transport then deposition | Low | Low | Low | Local residents often sensitive to dust but there is low potential for exposure. | As above | Very low |



nt Woodland.

| Local human population | Odour | | Air transport then inhalation. | Low | Low | Low | considered as low impact if it could give rise to an offensive odour outside the site boundary. | SR - activities must be operated in accordance with LII criteria, SR - emissions shall be free from odour SR (if required) - odour management plan. | Very Low |
|--|--|---|---|--------|--------|--------|--|--|----------|
| Local human population | Noise and vibration | amenity, loss of | Noise through the air and vibration through the ground. | Low | Low | Low | could give rise to noise noticeable outside the site | SR - activities must be operated in accordance with LII criteria, SR - emissions shall be free from noise and vibration SR (if required) - noise and vibration management plan. | Very Low |
| Local human population and local environment | Flooding of site | If materials are washed off site they may contaminate buildings / gardens / natural habitats downstream. | Flood waters | Low | Medium | Low | | SR - activities must be operated in accordance with LII criteria, SR - management system (will include flood risk management). | Low |
| | All on-site hazards: materials; machinery and vehicles. | | Direct physical contact | Medium | Medium | Medium | LII criterion requires that satisfactory containment measures to prevent fugitive emissions to surface water, sewer or land are in place and | SR - activities must be operated in accordance with LII criteria, SR - activities shall be managed and operated in accordance with a management system (will include site security measures to prevent unauthorised access). | Low |

| Local human population and local environment. | vandalism causing the release of | irritation, illness and nuisance to local population. Injury to staff, fire fighters or | smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and | Low | High | Medium | | As above. SR - management system (will include fire and spillages). | Low |
|---|--|---|---|--------|--------|--------|--|---|----------|
| Local human population and local environment | of polluting materials to air | Respiratory irritation, illness and nuisance to local population. Injury to staff or fire fighters. Pollution of water or land. | As above. | Low | High | Medium | The installation intrinsically has a low environmental impact. Risk of accidental combustion of materials is moderate. | As above | Low |
| All surface waters close to and downstream of site. | Spillage of liquids, contaminated rainwater run-off from materials. | oxygen depletion, fish kill and algal | Direct run-off from site across ground surface, via surface water drains, ditches etc. | Medium | Low | Low | measures to prevent fugitive emissions to surface water, sewer or land are in place and adequately maintained at the installation at all times. This requirement applies to all substances present on site and in any quantity so only a low magnitude risk is estimated. | SR - activities must be operated in accordance with LII criteria, SR - All liquids shall be provided with secondary containment. SR - Substances from point source emissions to water or air shall not be released at a rate that is greater than that determined as "insignificant", as set out in the Environment Agency's H1 Environmental Risk Assessment, Version 2.0, April 2010, Annexes (d) and (f). Run-off restricted by SR on emissions of substances not controlled by emission limits . | Very low |
| All surface waters close to and downstream of site. | As above | | As above. Indirect run-off via the soil layer | Medium | Low | Low | LII criterion requires that satisfactory containment measures to prevent fugitive emissions to surface water, sewer or land are in place and adequately maintained at the installation at all times. This requirement applies to all substances present on site and in any quantity so only a low magnitude risk is estimated. | As above | Very low |
| Abstraction from watercourse downstream of facility (for agricultural or potable use). | As above | closure of abstraction intakes. | Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction. | Medium | Medium | Medium | Watercourse must have medium / high flow for abstraction to be permitted, which will dilute contaminated run-off. | As above | Low |

| Groundwater | As above | Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole. | Transport through soil/groundwater then extraction at borehole. | Low | Medium | Low | LII criterion requires that there must be no planned or fugitive emission from the permitted installation into the ground. | As above | Very low |
|--|---|--|--|-----|--------|-----|---|---|----------|
| Local human population | Contaminated waters used for recreational purposes | Harm to human health - skin damage or gastro- intestinal illness. | Direct contact or ingestion | Low | Medium | Low | Unlikely to occur, but might restrict recreational use. | SR - emissions of substances not controlled by emission limitsSR (if required) - emissions management plan. | Very low |
| Protected nature conservation sites | Any | Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance etc. | Any | Low | Medium | Low | Operations have very low capacity to cause harm to and deterioration of nature conservation sites as their capacity to cause pollution is insignificant. | SR - activities must be operated in accordance with LII criteria, SR - activities must not be carried out on or immediately adjacent to a European Site, SSSI, National Nature Reserve, Local Nature Reserve or Ancient Woodland, SR - There must be no direct discharge of aqueous waste within 10km upstream of a European Site, or a SSSI; or within 100 metres upstream of a National Nature Reserve, Local Nature Reserve or Ancient Woodland; or within a National Park. At these distances or above, the potential hazards from the permitted activities pose a low risk to the broad sensitivity of species and habitats groups. The standard permit only applies at these distances or more. | Very Low |

Notes: Red triangle indicates comment containing supporting information

Yellow columns contain drop down menus that allow automatic evaluation of risk in green column