

Application SCR evaluation template

Name of activity, address and NGR	<i>Sigma Aldrich Company Limited Fancy Road Poole Dorset BH12 4QH</i>
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Document reference of application SCR	<i>EPR/BU6719IC/S002 Sigma Aldrich – Former operations site, Poole Report reference – SA-ATKINS 2013, December 2013 Report reference – Phase 1 A/B site ground condition report, March 2003 Site Closure Plan – Reference SA-CP-1</i>
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Date and version of application SCR	<i>December 2013</i>
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1.0 Site details

Has the applicant provided the following information as required by the application SCR template?

Site plans showing site layout, drainage, surfacing, receptors, sources of emissions/releases and monitoring points

The applicant has provided all necessary and appropriate drawings and plans to allow the determination of environmental permit EPR/BU6719IC, which was reviewed, assessed and accepted at permit determination on 24/10/2003.

2.0 Condition of the land at permit issue

Has the applicant provided the following information as required by the application SCR template?

- a) Environmental setting including geology, hydrogeology and surface waters
- b) Pollution history including:
 - pollution incidents that may have affected land
 - historical land-uses and associated contaminants
 - visual/olfactory evidence of existing contamination
 - evidence of damage to existing pollution prevention measures
- c) Evidence of historic contamination (i.e. historical site investigation, assessment, remediation and verification reports (where available))
- d) Has the applicant chosen to collect baseline reference data?

The applicant has met all of the criteria above and provided detailed information within sections 2, 3 and 4 of the reports referenced – SA-ATKINS 2013, December 2013 and Phase 1 A/B site ground condition report, March 2003

Historic contamination was identified on site for the following substances:

- Volatile Organic Compounds (VOCs)
- Polyaromatic Hydrocarbons (PAHs)

Following further assessment, these substances have been associated to the previous site use as a scrap yard. Baseline reference conditions were set and during an investigation conducted in 2003, a summary of the findings is provided in Section 3.1.1 of the report SA-ATKINS 2013, December 2013.

3.0 Permitted activities

Has the applicant provided the following information as required by the application SCR template?	Response (Specify what information is needed from the applicant, if any)
a) Permitted activities b) Non-permitted activities undertaken at the site	<p><i>Permitted Activity – S4.1A(1)(a) Producing Organic Chemicals such as ii) organic compounds containing oxygen such as alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides phenols, epoxy resins; iii) organic compounds containing sulphur such as sulphides, mercaptans sulphonic acids, sulphonates, sulphates, sulphones and sulphur heterocyclics; iv) organic compounds containing nitrogen such as amines, amides, nitrous – nitro or azo-compounds nitrates, nitrites, nitrogen heterocyclics, cyanates, isocyanates, di-isocyanates and di-isocyanate prepolymers; v) organic compounds containing phosphorus such as substituted phosphines and phosphate esters; vi) organic compounds containing halogens such as halocarbons, halogenated aromatic compounds and acid halides; vii) organometallic compounds such as lead alkyls Grignard reagents and lithium alkyls; b) producing any other organic compounds not described in paragraph (a).</i></p>

3.0(a) Environmental Risk Assessment

The H1 environmental risk assessment should identify elements that could impact on land and waters, cross- referenced back to documents and plans provided as part of the wider permit application.

The applicant provided an appropriate environmental risk assessment to allow the full determination of environmental permit EPR/BU6719IC, which was reviewed, assessed and accepted at permit determination on 24/10/2003.

3.0(b) Will the pollution prevention measures protect land and groundwater?

Are the activities likely to result in pollution of land?

No.

For dangerous and/or hazardous substances only, are the pollution prevention measures for the relevant activities to a standard that is likely to prevent pollution of land?

Yes. All raw and hazardous material substances will be stored in a dedicated storage area with a concrete floor and bund wall or alternatively in metal hazardous storage containers again with full and appropriate bunding. The substances used are deemed to be small scale laboratory smalls and are therefore typically easier to manage.

Internal process substances are all stored within bunded areas and the volume of substances will be kept to a minimum.

All waste that is generated, will be stored in drums in a dedicated store with a concreted floor. No underground or above ground storage tanks will be present on site.

Application SCR decision summary	Tick relevant decision
Sufficient information has been supplied to describe the condition of the site at permit issue	Yes
Pollution of land and water is unlikely	Yes
Historical contamination is present- advise operator that collection of background data may be appropriate	Yes
Date and name of reviewer:	<i>Tom Fowler</i> 24/10/2003

Operational phase SCR evaluation template

4.0 Changes to the activities	
Have there been any changes to the following during the operation of the site?	Response (Specify what information is needed from the applicant, if any)
a) Activity boundaries b) Permitted activities c) "Dangerous substances" used or produced	
<i>There have been no changes since the original permit application was made and determined by the Environment Agency on 24/10/2003.</i>	

5.0 Measures taken to protect land
Has the applicant provided evidence from records collated during the lifetime of the permit, to show that the pollution prevention measures have worked?
<i>Yes. Records have been reviewed against compliance assessment report forms (CARs) that confirm there have been no notable events which may have impacted the ground or groundwater beneath the installation.</i>

6.0 Pollution incidents that may have impacted on land and their remediation
Has the applicant provided evidence to show that any pollution incidents which have taken place during the life of the permit and which may have impacted on land or water have been investigated and remediated (where necessary)?
<i>The operator has confirmed, and stated within their Site Condition Report, that no pollution incidents have occurred during the operational lifetime of the site under environmental permit EPR/BU6719IC. Environment Agency records in the form of Compliance Assessment Reporting Forms (CARs) confirm this statement to be accurate.</i>

7.0 Soil gas and water quality monitoring
Where soil gas and/or water quality monitoring has been undertaken, does this demonstrate that there has been no change in the condition of the land? Has any change that has occurred been investigated and remediated?
<i>Data was collected by the operator in 2003 for the purpose of setting baseline conditions, for both soil and groundwater, across the installation. Monitoring was not deemed necessary by the Environment Agency, following determination of the original permit application for EPR/BU6719IC and has not therefore been undertaken during the operational life of the site.</i>

Surrender SCR Evaluation Template

8.0 Decommissioning and removal of pollution risk
Has the applicant demonstrated that decommissioning works have been undertaken and that all pollution risks associated with the site have been removed? Has any contamination of land that has occurred during these activities been investigated and remediated?
<p><i>All permitted activities have ceased and all sources of pollution risk have been removed. This has been confirmed by both the operator and site inspector.</i></p> <p><i>The permitted activities ceased in 2010 when equipment was cleaned and all chemicals were removed from the site. During the sites operation there were no significant spillages which could have lead to ground contamination and the possibility of a wider impact to land or groundwater quality.</i></p> <p><i>All decommissioning activities have been completed and the pollution risks removed. All chemicals and storage containers, fume cupboards, associated ducting and vacuum lines have been removed, drains washed and the interceptor tank cleaned. Therefore, all pollution risks removed. During decommissioning there were no spillages or impact to land and/or groundwater.</i></p> <p><i>In the opinion of the operator the site and surrounding land has been returned in a satisfactory state.</i></p>

9.0 Reference data and remediation
Has the applicant provided details of any surrender reference data that they have collected and any remediation that they have undertaken?
<p>Yes.</p> <p><i>From the evidence presented, within the surrender application (reference: EPR/BU6719IC/S002) there does not appear to be any evidence of contamination derived from permitted activities on site and we therefore have no immediate concerns with the application for surrender of the permit at the installation.</i></p>

10.0 Statement of site condition
Has the applicant provided a statement, backed up with evidence, confirming that the permitted activities have ceased, decommissioning works are complete and that pollution risk has been removed and that the land and waters at the site are in a satisfactory state?
<p><i>Yes. Following our review of the application and supporting information, we the Environment Agency are satisfied that the installation, and underlying soil and groundwater, have been returned in a satisfactory state.</i></p>

Surrender SCR decision summary	Tick relevant decision
Sufficient information has been supplied to show that pollution risk has been removed and that the site is in a satisfactory state – accept the application to surrender the permit;	Yes
Date and name of reviewer	<p><i>Charlotte Wakefield</i></p> <p><i>Matthew Derbyshire</i></p> <p><i>Jim Wilkinson</i></p> <p>11/02/2015</p>