FOYLE MEATS
MELTON RD
SIX HILLS
MELTON MOWBRAY
LE14 3PR

Environmental Permit Application

Baseline Report

Document Ref: Attachment B.2.3.C

INTRODUCTION

This report has been prepared on behalf of the Foyle Meats – Melton Mowbray meat processing facility at Melton Road, Six Hills, Melton Mowbray in support of an application for a Bespoke Environmental Permit under the Environmental Permitting Regulations (2016) for England and Wales, which has been made to the Environment Agency.

The purpose of this report is to meet the requirements of Article 22(2) of the Industrial Emissions Directive (2010/75/EU) and to determine whether or not a baseline report is required for the facility. This report has been prepared in line with the "*European Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on Industrial Emissions*" (2014/C 136/03) and forms part of the environmental permit application.

REQUIREMENT FOR BASELINE REPORT

European Legislation

The Industrial Emissions Directive (2010/75/EU) or 'IED' entered into force within the European Union on the 6th of January 2011. The IED is a recast of 7 pieces of legislation including the Integrated Pollution Prevention and Control Directive (2008/1/EC), the Waste Incineration Directive (2000/76/EC) and five other directives. The IE Directive had to be transposed into national legislation by Member States by 7 January 2013.

For industrial activities regulated by the IED, Article 22(2) of Chapter II of the IED states that:

"*Where the activity involves the use, production or release of relevant hazardous substances and having regard to the possibility of soil and groundwater contamination at the site of the installation, the operator shall prepare and submit to the competent authority a baseline report before starting operation of an installation or before a permit for an installation is updated for the first time after 7 January 2013*".

"*The baseline report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities provided for under paragraph 3*".

"The baseline report shall contain at least the following information:

(a) Information on the present use and, where available on past uses of the site;

(b) Where available, existing information on soil and groundwater measurements that reflect the state at the time the report is drawn up or, alternatively, new soil and groundwater measurements having regard to the possibility of soil and groundwater contamination by those hazardous substances to be used, produced or released by the installation concerned.

Where information produced pursuant to other national or Union law fulfils the requirements of this paragraph that information may be included in, or attached to, the submitted baseline report.

The Commission shall establish guidance on the content of the baseline report."

The Commission has established guidance on the content of the baseline report in the form of "*European Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on Industrial Emissions*" which has been followed in the production of this report.

SCOPE OF THE REPORT

This report follows the stages set out in the *European Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on Industrial Emissions*" (2014/C 136/03).

The substances currently used at the facility are listed in stage 1, with those which are hazardous, identified in stage 2. The possibility of soil and groundwater contamination by these hazardous substances is addressed in Stage 3 in the assessment of the site-specific pollution possibility.

Toxicological and associated classifications of a material can be used to assess the consequences of a release of the material to the environment.

Hazard Statements include:

GHS Classification (Environmentally Hazardous Material)

- H400: Very toxic to aquatic life
- H401: Toxic to aquatic life
- H402: Harmful to aquatic life
- H410: Very toxic to aquatic life with long-lasting effects
- H411: Toxic to aquatic life with long-lasting effects
- H412: Harmful to aquatic life with long-lasting effects
- H413: May cause long-lasting harmful effects to aquatic life

Annex III of European Union Directive 67/548/EEC

- R50: Very toxic to aquatic organisms
- R51: Toxic to aquatic organisms
- R52: Harmful to aquatic organisms
- R53: May cause long-term adverse effects in the aquatic environment
- R54: Toxic to flora
- R55: Toxic to fauna
- R56: Toxic to soil organisms
- R57: Toxic to bees
- R58: May cause long-term adverse effects in the environment
- R59: Dangerous for the ozone layer

STAGE 1 – SITE ACTIVITIES AND IDENTIFICATION OF HAZARDOUS SUBSTANCES

1.0 Identification of Substances Used, Produced or Stored

It is necessary to determine whether or not hazardous substances are used, produced or released in view of deciding on the need to prepare and submit a baseline report. The following substances have been identified as used in the day to day operations of the activity and are all included in the site *Control of Substances Hazardous to Health - Master Register*:

Table 1.1: Inventory of Material's/Substances

MATERIAL/ SUBSTANCE	CAS NUMBER	R-PHRASE	S-PHRASE	HAZARD STATEMENT	VOLUME STORED	NATURE OF USE	STORAGE LOCATION
NOPAC	-	**R34**	**S24/25, S26, S36/37/39, S45, S60**	-	**125L**	**Detergent**	**Coshh Store**
Methanesulphonic Acid	*75-75-2*	*R34*	-	*H314*			
TWS	-	**R35**	**S24/25, S26, S36/37/39, S45, S60**	-	**0L**	**Detergent**	**Coshh Store**
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H314*			
RAPIER	-	-	-	**H290, H314, H318, H400, H412**	**2,050L**	**Detergent**	**Coshh Store & ABP Area**
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H290, H314*			
Sodium Hypochlorite Solution	*7681-52-9*	*R34, R31, R50*	-	*H290, H314, H400, H411*			
Alkyl Dimethyl Amine Oxide	*308062-28-4*	*R22, R38, R41, R50/53*	-	*H302, H315, H318, H400, H411*			

MATERIAL/ SUBSTANCE	CAS NUMBER	R-PHRASE	S-PHRASE	HAZARD STATEMENT	VOLUME STORED	NATURE OF USE	STORAGE LOCATION
Sodium Aryl Sulphonate	*1300-72-7*	*R36/37/38*	-	*H319*			
MAXIFOAM	-	**R34**	**S24/25, S26, S36/37/39, S45, S60**	-	**175L**	**Detergent**	**Coshh Store**
Sodium Aryl Sulphonate	*1300-72-7*	*R36/37/38*	-	*H315, H319, H335*			
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H314*			
Alkyl Di-Methyl Amine Oxide	*70592-80-2*	*R38, R41, R50*	-	*H315, H318, H400*			
Sodium Alkyl Ether Sulphate	*68891-38-3*	*R36/38*	-	*H315, H318*			
Sodium Octanoate	*1984-06-1*	*R35/37/38*	-	*H315, H319, H335*			
Sodium Decanoate	*1002-62-6*	*R36/37/38*	-	*H315, H319, H335*			
1-Dodecanol	*112-53-8*	*R36, R50*		*H319, H400*			
PERBAC OPD	-	**R22, R34**	**S3/7, S14, S24/25, S26, S45 S36/37/39, S60**	-	**200L**	**Disinfectant**	**Coshh Store**
Acetic Acid	*64-19-7*	*R35, R10*	-	*H226, H314*			
Hydrogen Peroxide Solution…%	*7722-84-1*	*R5, R8, R35, R20/22*	-	*H271, H302, H332, H314, H335*			
Benzenesulphonic Acid C10-C13-sec-alkyl derivatives	*85536-14-7*	*R22, R34*	-	*H302, H314*			
Alcohols C6-12 Ethoxylated	*68439-45-2*	*R22, R41*	-	*H302, H318*			
Peracetic Acid	*79-21-0*	*R20/21/22,*	-	*H226, H242,*			

MATERIAL/ SUBSTANCE	CAS NUMBER	R-PHRASE	S-PHRASE	HAZARD STATEMENT	VOLUME STORED	NATURE OF USE	STORAGE LOCATION
		R35, R7, R50, R10		*H302, H312, H332, H314, H400*			
TRIBAC	-	-	-	**H290, H315, H318, H400, H411**	**125L**	**Disinfectant**	**Coshh Store**
Ethylenediaminetetraacetic Acid Tetrasodium Salt	*64-02-8*	*R20, R22, R41*	-	*H302, H332, H318*			
N-(3-Aminopropyl)-N-Dodecylpropane-1,3-Diamine	*2372-82-9*	*R48/22, R35, R50*	-	*H301, H314, H373, H400*			
Sodium Aryl Sulphonate	*1300-72-7*	*R36/37/38*	-	*H319*			
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H290, H314*			
BOOTWASH	-	-	-	**H290, H314, H318, H412**	**225L**	**Caustic Detergent**	**Coshh Store**
Disodium Metasilicate	*6834-92-0*	*R34, R37*	-	*H290, H314, H318, H335*			
Alkyl Dimethyl Amine Oxide	*308062-28-4*	*R22, R38, R41, R50/53*	-	*H302, H315, H318, H400, H411*			
Sodium Octanoate	*1984-06-1*	*R26/27/28*	-	*H314*			
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H290, H314, H318*			
Ethylenediaminetetraacetic Acid Tetrasodium	*64-02-8*	*R20, R22, R41*	-	*H290, H302, H332, H318, H373*			
Sodium Alkyl Ether Sulphate	*68891-38-3*	*R38, R41*	-	*H315, H318, H412*			
SODIUM HYPOCHLORITE	-	-	-	**H290, H314, H318, H400, H411**	**150L**	**Detergent, Disinfectant**	**Coshh Store**
Sodium Hypochlorite Solution	*7681-52-9*	*R34, R31,*	-	*H290, H314,*			

MATERIAL/ SUBSTANCE	CAS NUMBER	R-PHRASE	S-PHRASE	HAZARD STATEMENT	VOLUME STORED	NATURE OF USE	STORAGE LOCATION
		R50		*H318, H400, H411*			
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H290, H314, H318*			
CAUSDETA	-	-	-	**H290, H314, H318**	**200L**	**Caustic Detergent**	**Coshh Store**
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H290, H314, H318*			
Ethylenediaminetetraacetic Acid Tetrasodium	*64-02-8*	*R20, R22, R41*	-	*H290, H302, H332, H318, H373*			
EXCEL EXTRA	-	-	-	**H290, H314, H412**	**2,025L**	**Caustic Detergent**	**Coshh Store & ABP Area**
Disodium Metasilicate	*6834-92-0*	*R34, R37*	-	*H290, H314, H318, H335*			
Alkyl Dimethyl Amine Oxide	*308062-28-4*	*`R22, R38, R41, R50/53*	-	*H302, H315, H318, H400, H411*			
Sodium Octanoate	*1984-06-1*	*R36/37/38*	-	*H314*			
Sodium Hydroxide	*1310-73-2*	*R35*	-	*H290, H314, H318*			
Ethylenediaminetetraacetic Acid Tetrasodium Salt	*64-02-8*	*R20, R22, R41*	-	*H290, H302, H332, H318, H373*			
Sodium Alkyl Ether Sulphate	*68891-38-3*	*R38, R41*	-	*H315, H318, H412*			
PERBAC AGRI	-	-	-	**H314, H335, H290, H272, H410, H302+312+332**	**250L**	**Disinfectant**	**Coshh Store**
Hydrogen Peroxide Solution ... %	*7722-84-1*	*R5, R8, R35, R20/22*	-	*H271, H302, H332, H314, H335, H318, H412*			
Acetic Acid	*64-19-7*	*R10, R35*	-	*H226, H314*			
Peracetic Acid	*79-21-0*	*R10, R35*		*H226, H242,*			

MATERIAL/ SUBSTANCE	CAS NUMBER	R-PHRASE	S-PHRASE	HAZARD STATEMENT	VOLUME STORED	NATURE OF USE	STORAGE LOCATION
		R50, R20/21/22		*H302, H312, H332, H314, H335, H318, H400,H410*			
NIPAC	-	-	-	**H314, H290**	**125L**	**Detergent**	**Coshh Store**
Nitric Acid ...%	*7697-37-2*	*R8, R35*	-	*H272, H314, H318*			
Phosphoric Acid	*7664-38-2*	*R34*	-	*H290, H314, H318*			
NIPAC GEL	-	-	-	**H314, H290**	**50L**	**Detergent**	**Coshh Store**
Nitric Acid ...%	*7697-37-2*	*R8, R35*	-	*H272, H314, H318*			
Phosphoric Acid	*7664-38-2*	*R34*	-	*H290, H314, H318*			
OPTIMUM M8 HAND MOUSSE	-	-	**S25, S26**	-	**95L**	**Hand Soap**	**Coshh Store**
Lauryl Betaine	*683-10-3*	*R36/38, R41*	-	*H315, H318, H319*			
BIO DRAIN CLEANER LIQUID	-	-	-	-	**50L**	**Enzyme and Bacteria Preparation**	**Coshh Store**
-	-	-	-	-			

STAGE 2 – IDENTIFICATION OF RELEVANT HAZARDOUS SUBSTANCES

2.0 Relevant Hazardous Substances

Relevant hazardous substances are those substances or mixtures defined within Article 3 of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) which, as a result of their hazardousness, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater and are used, produced and/or stored by the installation.

Table 2.1: Identifying Relevant Hazardous Substances

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	RATIONALE FOR INCLUSION / EXCLUSION OF MATERIAL / SUBSTANCE	RELEVANT HAZARDOUS SUBSTANCE
NOPAC	**R34**	-	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Methanesulphonic Acid	*R34*	*H314*		
TWS	**R35**	-	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Sodium Hydroxide	*R35*	*H314*		
RAPIER	-	**H290, H314, H318, H400, H412**	This substance is considered to constitute a relevant hazardous substance. This product is classified as: H400 Very toxic to aquatic life.	✓
Sodium Hydroxide	*R35*	*H290, H314*		
Sodium Hypochlorite Solution	*R34, R31, R50*	*H290, H314, H400, H411*		
Alkyl Dimethyl Amine Oxide	*R22, R38,*	*H302, H315, H318,*		

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	RATIONALE FOR INCLUSION / EXCLUSION OF MATERIAL / SUBSTANCE	RELEVANT HAZARDOUS SUBSTANCE
	R41, R50/53	*H400, H411*	H412 Harmful to aquatic life with long lasting effects.	
Sodium Aryl Sulphonate	*R36/37/38*	*H319*		
MAXIFOAM	**R34**	**-**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Sodium Aryl Sulphonate	*R36/37/38*	*H315, H319, H335*		
Sodium Hydroxide	*R35*	*H314*		
Alkyl Di-Methyl Amine Oxide	*R38, R41, R50*	*H315, H318, H400*		
Sodium Alkyl Ether Sulphate	*R36/38*	*H315, H318*		
Sodium Octanoate	*R35/37/38*	*H315, H319, H335*		
Sodium Decanoate	*R36/37/38*	*H315, H319, H335*		
1-Dodecanol	*R36, R50*	*H319, H400*		
TRIBAC	-	**H290, H315, H318, H400, H411**	This substance is considered to constitute a relevant hazardous substance. This product is classified as: H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.	✓
Ethylenediaminetetraacetic Acid Tetrasodium Salt	*R20, R22, R41*	*H302, H332, H318*		
N-(3-Aminopropyl)-N-Dodecylpropane-1,3-Diamine	*R48/22, R35, R50*	*H301, H314, H373, H400*		
Sodium Aryl Sulphonate	*R36/37/38*	*H319*		
Sodium Hydroxide	*R35*	*H290, H314*		
PERBAC OPD	**R22, R34**	**-**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Acetic Acid	*R35, R10*	*H226, H314*		
Hydrogen Peroxide Solution…%	*R5, R8, R35, R20/22*	*H271, H302, H332, H314, H335*		
Benzenesulphonic Acid C10-C13-sec-alkyl derivatives	*R22, R34*	*H302, H314*		
Alcohols C6-12 Ethoxylated	*R22. R41*	*H302, H318*		
Peracetic Acid	*R20/21/22,*	*H226, H242, H302,*		

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	RATIONALE FOR INCLUSION / EXCLUSION OF MATERIAL / SUBSTANCE	RELEVANT HAZARDOUS SUBSTANCE
	R35, R7, R50, R10	*H312, H332, H314, H400*		
BOOTWASH	-	**H290, H314, H318, H412**	This substance is considered to constitute a relevant hazardous substance. This product is classified as: H412 Harmful to aquatic life with long lasting effects.	✓
Disodium Metasilicate	*R34, R37*	*H290, H314, H318, H335*		
Alkyl Dimethyl Amine Oxide	*R22, R38, R41, R50/53*	*H302, H315, H318, H400, H411*		
Sodium Octanoate	*R26/27/28*	*H314*		
Sodium Hydroxide	*R35*	*H290, H314, H318*		
Ethylenediaminetetraacetic Acid Tetrasodium	*R20, R22, R41*	*H290, H302, H332, H318, H373*		
Sodium Alkyl Ether Sulphate	*R38, R41*	*H315, H318, H412*		
SODIUM HYPOCHLORITE	-	**H290, H314, H318, H400, H411**	This substance is considered to constitute a relevant hazardous substance. This product is classified as: H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.	✓
Sodium Hypochlorite Solution	*R34, R31, R50*	*H290, H314, H318, H400, H411*		
Sodium Hydroxide	*R35*	*H290, H314, H318*		
CAUSDETA	-	**H290, H314, H318**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Sodium Hydroxide	R35	H290, H314, H318		
Ethylenediaminetetraacetic Acid Tetrasodium	R20, R22, R41	H290, H302, H332, H318, H373		

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	RATIONALE FOR INCLUSION / EXCLUSION OF MATERIAL / SUBSTANCE	RELEVANT HAZARDOUS SUBSTANCE
EXCEL EXTRA	-	**H290, H314, H412**	This substance is considered to constitute a relevant hazardous substance. This product is classified as: H412 Harmful to aquatic life with long lasting effects.	✓
Disodium Metasilicate	*R34, R37*	*H290, H314, H318, H335*		
Alkyl Dimethyl Amine Oxide	*`R22, R38, R41, R50/53*	*H302, H315, H318, H400, H411*		
Sodium Octanoate	*R36/37/38*	*H314*		
Sodium Hydroxide	*R35*	*H290, H314, H318*		
Ethylenediaminetetraacetic Acid Tetrasodium Salt	*R20, R22, R41*	*H290, H302, H332, H318, H373*		
Sodium Alkyl Ether Sulphate	*R38, R41*	*H315, H318, H412*		
PERBAC AGRI	-	**H314, H335, H290, H272, H410, H302+312+332**	This substance is considered to constitute a relevant hazardous substance. This product is classified as: H410 Very toxic to aquatic life with long-lasting effects.	✓
Hydrogen Peroxide Solution ... %	*R5, R8, R35, R20/22*	*H271, H302, H332, H314, H335, H318, H412*		
Acetic Acid	*R10, R35*	*H226, H314*		
Peracetic Acid	*R10, R35 R50, R20/21/22*	*H226, H242, H302, H312, H332, H314, H335, H318, H400,*		

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	RATIONALE FOR INCLUSION / EXCLUSION OF MATERIAL / SUBSTANCE	RELEVANT HAZARDOUS SUBSTANCE
		H410		
NIPAC	**-**	**H314, H290**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Nitric Acid ...%	*R8, R35*	*H272, H314, H318*		
Phosphoric Acid	*R34*	*H290, H314, H318*		
NIPAC GEL	**-**	**H314, H290**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Nitric Acid ...%	*R8, R35*	*H272, H314, H318*		
Phosphoric Acid	*R34*	*H290, H314, H318*		
OPTIMUM M8 HAND MOUSSE	**-**	**-**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
Lauryl Betaine	*R36/38, R41*	*H315, H318, H319*		
BIO DRAIN CLEANER LIQUID	**-**	**-**	This substance is **not** considered to constitute a relevant hazardous substance. This product is not classified as environmentally hazardous.	✗
-	-	-		

3.0 STAGE 3 – ASSESSMENT OF SITE SPECIFIC POLLUTION POSSIBILITY

The European Guidance concerning baseline reports under Article 22(2) of Directive 2010/75/EU on Industrial Emissions" (2014/C 136/03) provides a definition of the phrase ***'The possibility of soil and groundwater contamination at the site of the installation'*** as follows;

"*(Article 22(2), first subparagraph) covers a number of important elements. Firstly, due consideration should be given in a baseline report to the quantities of hazardous substances concerned – where very small quantities are used, produced or released on the site of the installation then the possibility of contamination is likely to be insignificant for the purpose of producing a baseline report. Secondly, baseline reports must consider the soil and groundwater characteristics of the site and the impact of those characteristics on the possibility of soil and groundwater contamination taking place. Thirdly, for existing installations, their characteristics may be considered where they are such that it is impossible in practice that contamination can take place.*"

A review of Article 3 of Regulation (EC) No 1272/2008 was undertaken and the following substances have been brought forward from Stage 2 having been identified as relevant hazardous substances

Table 3.1: Environmental Effect of Relevant Hazardous Substances

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	VOLUME STORED	STORAGE LOCATION	CONTROLS IN PLACE
RAPIER	-	**H290, H314, H318, H400, H412**	**1,000L**	**Coshh Store & ABP Area**	Small volumes in use at any one time. Max potential spillage = 1,000L Bulk Liquids procedure in place (EMS OP08) Spill kits located throughout site. Spillage procedure in place (EMS OP11) All chemicals are stored on bunds.
Sodium Hydroxide	*R35*	*H290, H314*			
Sodium Hypochlorite Solution	*R34 R31, R50*	*H290, H314, H400, H411*			
Alkyl Dimethyl Amine Oxide	*R22, R38, R41, R50/53*	*H302, H315, H318, H400, H411*			
Sodium Aryl Sulphonate	*R36/37/38*	*H319*			
TRIBAC	-	**H290, H315, H318, H400, H411**	**25L**	**Coshh Store**	Small volumes in use at any one time. Max potential spillage = 25L Bulk Liquids procedure in place (EMS OP08) Spill kit located throughout site. Spillage procedure in place (EMS OP11) All chemicals are stored on bunds.
Ethylenediaminetetraacetic Acid Tetrasodium Salt	*R20, R22, R41*	*H302, H332, H318*			
N-(3-Aminopropyl)-N-Dodecylpropane-1,3-Diamine	*R48/22, R35, R50*	*H301, H314, H373, H400*			
Sodium Aryl Sulphonate	*R36/37/38*	*H319*			
Sodium Hydroxide	*R35*	*H290, H314*			

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	VOLUME STORED	STORAGE LOCATION	CONTROLS IN PLACE
BOOTWASH	**-**	**H290, H314, H318, H412**	**25L**	**Coshh Store**	Small volumes in use at any one time. Max potential spillage = 25L Bulk Liquids procedure in place (EMS OP08) Spill kit located throughout site. Spillage procedure in place (EMS OP11) All chemicals are stored on bunds.
Disodium Metasilicate	*R34, R37*	*H290, H314, H318, H335*			
Alkyl Dimethyl Amine Oxide	*R22, R38, R41, R50/53*	*H302, H315, H318, H400, H411*			
Sodium Octanoate	*R26/27/28*	*H314*			
Sodium Hydroxide	*R35*	*H290, H314, H318*			
Ethylenediaminetetraacetic Acid Tetrasodium	*R20, R22, R41*	*H290, H302, H332, H318, H373*			
Sodium Alkyl Ether Sulphate	*R38, R41*	*H315, H318, H412*			
SODIUM HYPOCHLORITE	**-**	**H290, H314, H318, H400, H411**	**25L**	**Coshh Store**	Small volumes in use at any one time. Max potential spillage = 25L Bulk Liquids procedure in place (EMS OP08) Spill kit located throughout site. Spillage procedure in place (EMS OP11) All chemicals are stored on bunds.
Sodium Hypochlorite Solution	*R34, R31, R50*	*H290, H314, H318, H400, H411*			
Sodium Hydroxide	*R35*	*H290, H314, H318*			

MATERIAL/ SUBSTANCE	R-PHRASE	HAZARD STATEMENT	VOLUME STORED	STORAGE LOCATION	CONTROLS IN PLACE
EXCEL EXTRA	-	**H290, H314, H412**	**1,000**	**Coshh Store & ABP Area**	Small volumes in use at any one time. Max potential spillage = 1,000L Bulk Liquids procedure in place (EMS OP08) Spill kit located throughout site. Spillage procedure in place (EMS OP11) All chemicals are stored on bunds.
Disodium Metasilicate	*R34, R37*	*H290, H314, H318, H335*			
Alkyl Dimethyl Amine Oxide	*`R22, R38, R41, R50/53*	*H302, H315, H318, H400, H411*			
Sodium Octanoate	*R36/37/38*	*H314*			
Sodium Hydroxide	*R35*	*H290, H314, H318*			
Ethylenediaminetetraacetic Acid Tetrasodium Salt	*R20, R22, R41*	*H290, H302, H332, H318, H373*			
Sodium Alkyl Ether Sulphate	*R38, R41*	*H315, H318, H412*			
PERBAC AGRI	-	**H314, H335, H290, H272, H410, H302+312+332**	**25L**	**Coshh Store**	Small volumes in use at any one time. Max potential spillage = 25L Bulk Liquids procedure in place (EMS OP08) Spill kit located throughout site. Spillage procedure in place (EMS OP11) All chemicals are stored on bunds.
Hydrogen Peroxide Solution ... %	*R5, R8, R35, R20/22*	*H271, H302, H332, H314, H335, H318, H412*			
Acetic Acid	*R10, R35*	*H226, H314*			
Peracetic Acid	*R10, R35 R50, R20/21/22*	*H226, H242, H302, H312, H332, H314, H335, H318, H400, H410*			

4.0 STORAGE, USAGE, CONTAINMENT MEASURES AND POTENTIAL RISKS OF RELEASE TO THE ENVIRONMENT

As can be seen in Section 3.0 above, the volumes of relevant hazardous substances used on-site are relatively small. Chemical volumes stored on-site are sufficient for short term use, with a replacement supply on-site.

The supply of chemicals to the site is such that only the volumes required for on-going operation and, where applicable, replacement supplies are stored onsite at any one time. There is no bulk storage of relevant hazardous substances at the site.

A procedure is in place at the site for monitoring *The Receipt of Bulk Oil and Containerised Oil and Chemicals* (EMS OP08), to reduce the risk of spillages taking place to a minimum.

Accident traffic management controls and speed limits are in place on site. Low traffic volumes and congestion on site also reduce the risk of spillages occurring.

In the event of a spill, spill kits are in place in key areas around the site. The Non-Conformance, Corrective and Corrective Action Procedure (EM15) and Emergency Response Procedure (EM16) detail the company's response to *day-to-day* emergencies.

All relevant hazardous substances are stored in secondary containment or within a designated area or the COSHH store. Bunds are checked weekly and emptied of rainwater, as per the Bund Inspection Procedure (EMS OP09) and the Environmental daily check sheet (EMS ER 04).

Chemicals stored internally to the building are those in use. Internal drainage is directed to the site *Effluent Sump*.

All external yard areas where relevant hazardous chemicals may be stored are surfaced with concrete or asphalt. The site is bound/enclosed by elevated curbing designed to contain surface-water.

There are no discharges to soil or groundwater within the site boundary. See attachment B.3.3 – Emissions to Surface-water for further detail.

Details of site reconnaissance are provided in Attachment B.2.3.B - Section 3.0. Site Reconnaissance.

No evidence of contamination from relevant hazardous substances stored and used on the site was found. The hardstand area throughout the site was found to be in good condition during the investigation.

5.0 CONCLUSION

There is no indication of pollution of soil or groundwater from relevant hazardous substances used at the site, consistent with the current land use and historic land use as an abattoir.

The existing facility is designed to ensure the protection of soil and groundwater. All materials handling is undertaken on appropriately surfaced yards or indoors and therefore there is a relatively low risk of soil or groundwater pollution arising during normal operations.

The quantity of the relevant substances stored on site at any one time is relatively minor.

The design of the facility combined with good environmental management practices on-site, as well as established environmental procedures, would ensure that the risk of any unplanned events is minimised.

It is apparent due to the quantities of the relevant hazardous substances used at the installation, combined with the measures taken at the facility to ensure that contamination of soil and groundwater would not occur, including containment measures, indoor processing activities, concrete hard standing and an environmental management system, that the likelihood of or potential for, contamination of soil or groundwater is extremely low.

It is therefore concluded that additional monitoring to set baseline reference data is not required.