HACCP Study

Raw Milk Collection, Transportation and Delivery

Dairy UK
Dairy Transport Assurance Scheme
Reviewed 14.03.2024

Reviewed 14.03.2024

HACCP study overseen and validated by:

Gosia Johnstone – Senior Manager, Technical

Jen Shelton – Head of Technical

John Whitelaw - Milk Contract Manager, DTAS Auditor / Assessor

Rowena Marshall - UK Senior QEHS Business Partner

Table of contents

1.	Intro	ntroduction						
2.	Proc 2.1	Process and product background information 2.1 Terms of reference (raw milk)						
	2.2	Terms of reference (finished product)	6					
	2.3	(Original) HACCP food safety team members	6					
	2.4	Process flow chart	7					
	2.5	Process flow description	8					
3.	Prer	Prerequisite programme						
	3.1	Prerequisites	9					
	3.2	Special measures	10					
4.	Regu	Regulatory minimum quality standards						
	4.1	Hygiene for premises and equipment	11					
	4.2	Criteria for raw milk	12					
5.	HAC	HACCP						
	5.1	Hazard analysis	13					
	5.2	Determination of critical control points	19					
	5.3	HACCP plan	20					
	Appendix A – Supporting documentation							
	Appendix B – HACCP review							

1. Introduction

The scope of this HACCP is Raw milk from farm collections including any reload operation within the UK and delivered to processing site or disposal facility.

In January 2006, existing legislation was replaced by new EC food hygiene regulations. These regulations are intended to ensure that all primary producers and businesses involved in the processing and manufacture of food products take all appropriate steps to control potential food safety hazards at every stage of the operation.

The following HACCP study was developed using the information gathered during the milk quality harmonisation group meetings attended by representatives from Arla Foods, Dairy Farmers of Britain, Saputo Dairy UK, First Milk, Milk Link and OMSCo. The objective of this HACCP study is to identify and consider any potential food safety hazards associated with raw milk collection, transportation and delivery to a registered processing facility. Utilising a risk-based approach will concentrate the appropriate resources on those steps that could critically affect product safety.

Despite the presence of a wide range of anti-microbial systems, milk supports the growth of a wide range of microorganisms and temperature is the major growth-limiting factor. Microorganisms can enter the milk from a large number of sources, and it must be remembered that this study is only concerned with raw milk collection, transportation and delivery of raw milk. Subsequent steps at the processing site such as filtration and heat-treatment are designed specifically to eliminate identified food safety hazards or reduce the likely occurrence to an acceptable level.

In April 2011 the Dairy Industry, through Dairy UK, launched a standard for the haulage of raw milk and bulk liquid milk fractions, known as the Dairy Transport Assurance Scheme (DTAS). The standard includes the requirement for HACCP and an annual HACCP review. From April 2012 the management of this HACCP study and the ongoing annual review process has been adopted by Dairy UK through the DTAS Management Committee.

Please note that EU law as it stood on 11pm on 31st December 2020 continues to be applicable in GB until further notice. The <u>Retained EU Law Dashboard</u> is the comprehensive and official GB reference point for retained EU law (now known as assimilated law) on 31 December 2020 at 11pm. EU law and future amendments to it continue to apply to Northern Ireland.

2. Process and product background information

2.1 Terms of reference (raw milk)

RAW WHOLE MILK (Pre Heat-Treatment)				
1. Product Name	Raw Cows' and Goats' milk			
2. HACCP study	Bulk raw milk collection, transportation (include any reload operation) and delivery to an appropriate processing or disposal facility			
3. Hazards considered	Microbiological, physical, chemical, allergen and radiological			
4.Consumers at high risk	Infants, children, elderly, allergy sufferers, pregnant women and immune-suppressed			
	Significant microbiological hazards to be considered by this HACCP study Salmonella spp			
	E. coli (verocytotoxin) Listeria monocytogenes Staphylococcus aureus Mycobacterium bovis (TB)			
5. Specific microbiological hazards	Brucella spp Streptococcus spp Campylobacter jejuni Bacillus cereus			
	Clostridium spp Generic low risk hazards to be considered by prerequisite programme Aflatoxin			
	Significant chemical hazards to be considered by this HACCP study			
	Antibiotic residues and other anti-microbial drugs			
6. Specific chemical hazards	Generic low risk chemical hazards to be considered by prerequisite programme			
o. Specific chemical nazarus	Heavy Metals Environmental chemicals – Pesticides Cleaning chemicals (including QAC, cyanuric acid & chlorates) Allergens from official list (Appendix A) Parasiticides Radiological			
	Significant physical hazards to be considered by this HACCP study			
	None			
7.Specific physical hazards	Generic low risk physical hazards to be considered by prerequisite programme			
	Metal, Glass, Pests, Plastic			
8.Legislation & supporting documents	Detailed under Appendix A			
9.Shelf life	As required by customer specification and defined by industry best practise.			

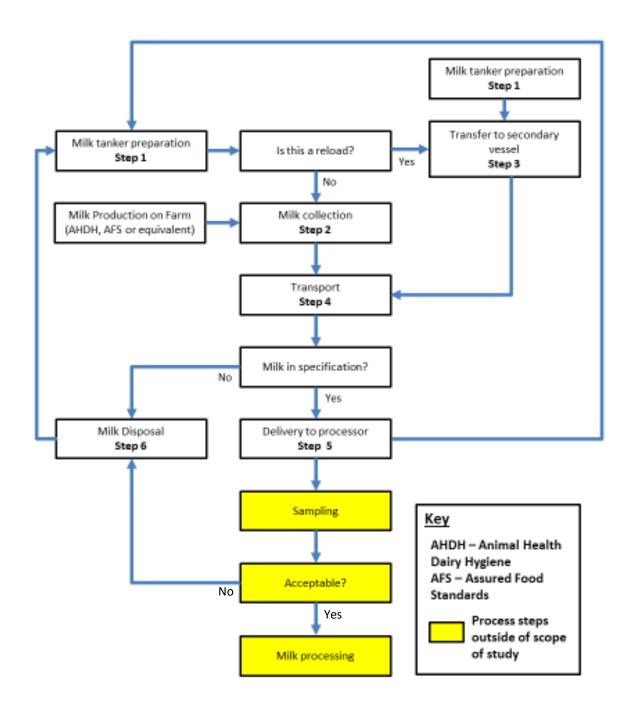
2.2 Terms of reference – (finished product)

FINISHED PRODUCT (Post Heat-Treatment)				
1. How the end product is to be used?	Direct consumption or further processed			
2. Where the products will be sold?	Domestic / Retail / Export / Foodservice / Out-of-home / Delivery to home			
3. Distribution control	Chilled/Ambient/Frozen			
4. Shelf life	As defined by the end product			
5. Important final product characteristics	Heat treatment of raw milk. Product judged safe at point of despatch from processing site			

2.3 (Original) HACCP food safety team (FST) members

Name	Company, job title & HACCP qualifications	Dairy Experience
D . D		Experience
Peter Dawson	Dairy Crest - Technical Development Manager –	
(FST Leader)	Advanced certificate in HACCP principles (RIPH)	25 Years
	MSc HACCP, Lead Assessor, SOFHT HACCP Trainer	
Diana Brydson	First Milk – Group Milk Quality Technical Specialist -	27.//
	Intermediate certificate in HACCP Principles	27 Years
David Baxter	Dairy Farmers of Britain – Quality and Compliance	22 Voors
	Manager	32 Years
Linda Clow	Arla Foods - Technical Support Manager	30 Years
Stan Coleman	Arla Foods – Bulk Farm Liaison Manager	34 Years
Tim Hampton	Milk Link – Quality Standard Manager - Intermediate	30 Years
	certificate in HACCP principles	SU rears
Roger Duckett	OMSCo Ltd – Quality Manager	5 Years
Steven Pinchbeck	Arla Foods – Technical Manager (Ashby)	
	Validation (consultation and proof reading) - Advanced	15 Years
	certificate in HACCP Principles (RIPH)	

20th December 2005



2.5 Process flow description

PROCESS STEP	PROCESS FLOW DESCRIPTION
	Raw milk collection tankers are cleaned at least once
	every 24hrs. Cleaning is normally carried out by
1. Milk Tanker	connecting the tanker to a registered cleaning (CIP)
Preparation	system while in the reception area or at a defined
/fa:!!. aallaatia f	cleaning station. Planned maintenance and regular
(for milk collection from farm and reloaded milk)	inspections of collection tankers are carried out at a defined frequency as required within DTAS standards.
Tarini and reloaded milk)	Filter integrity checked pre-shift, before and after every
	collection and delivery and at end of shift.
	Raw milk is stored on the farm in refrigerated bulk tanks.
	The collection of raw cows' milk normally takes place
2. Milk Collection	daily or on alternate days. For goats' milk, may be up to
2. Will Collection	every 3 days. On arrival at the farm the driver undertakes
	preliminary checks prior to loading the milk into the
	tanker. A loading hose from the tanker is connected to
	the outlet on the bulk tank.
3. Transfer to Secondary	
Vessel	The transfer of raw milk from a tanker that has collected
Vessei	raw milk direct from the farm, which is then transferred
(reloaded milk)	to another tanker at a reload point.
· · ·	
A NATH Towns and	Once the milk tanker has completed its scheduled route,
4. Milk Transport	milk is transported either direct to the processing site or
	to a reload point.
	A delivery of a milk tanker at the receiving processing site
	with a batch of raw milk. The first thing carried out at the
5 2411 5 11	processing site is to determine the quantity of milk
5. Milk Delivery	collected. Afterwards quality of milk is verified by
	organoleptic assessment, antibiotic detection, and several analytical tests. Upon satisfactory completion of
	these checks the milk is then pumped into a raw milk silo.
	Milk rejected on Food Safety grounds will always be
	disposed of as a minimum Category 2 Animal By Product.
6. Milk Disposal	Milk rejected against commercial specifications and not
	salvaged will be disposed of as a minimum Category 3
	Animal By-products.

3. Prerequisite programme

Prerequisites are recommended and proven management procedures that help prevent 'low risk' food safety problems from occurring and are the foundation of this HACCP study. The HACCP team agreed to group the prerequisites into the following categories:

3.1 – Prerequisites

No	PRP	Hazard	Control Measure	Documentation
P1	Milk collection, hygiene,	Contamination of tanker /	Adherence to Driver's/Hauliers	Collection and reload
	temperature and	product by physical /	handbook	records.
	sampling operations	chemical / microbiological	Adherence to Standard operating	CIP records
	including product	hazards Growth of	procedures	Sample traceability labels
	transport standards -	spoilage or pathogenic	DTAS compliance	Maintenance records
	DTAS	organisms / Cross	Raw milk specification	Pre-use checks
		contamination from other	Producer contracts	Damage and defect
		milk types / products (i.e.	Condition and maintenance of	reporting
		goats' milk, Halal, Organic,	tankers – integrity.	
		allergens)	Segregation procedures for milk /	
			product types	
			Adherence to CIP procedures	
P2	Farm and vehicle security	Malicious contamination	Adherence to Driver's/Hauliers	Seal records
	Vehicles security tagged	and/or fraud of tanker /	handbook	Vehicle security logbook
	or accompanied during	equipment / product by	Adherence to Standard operating	Security challenge records
	collection	any hazard	procedures	
			Vehicle security logbook	
			DTAS Standard compliance	
			Simulated security breaches /	
			challenge	
Р3	Temperature and age of	Microbiological hazards	Adherence to Driver's/Hauliers	Collection and reload
	milk		handbook	records
			Adherence to Standard operating	
			procedures	
			Raw milk specification	
		21 . 11 . 16 .	Producer contracts	
P4	Filtration during loading	Physical hazards (foreign	Adherence to Driver's/Hauliers	Maintenance records
	(1.75 x 1.25 mm,	bodies)	handbook	
	diamond shape)		Adherence to Standard operating	
DE	Product traceability	Mish discussing afternaction	procedures	Tuesca hilitary and accompating
P5	Product traceability	Withdrawal of unsafe	Adherence to Driver's/Hauliers handbook	Traceability and quarantine
		food/products and		procedure Load documentation
		prevention of unsafe food/products being	Adherence to Standard operating	Product recall procedure.
		despatched	procedures DTAS compliance	Crisis / emergency plan
		Unable to trace product	Traceability maintained throughout	Crisis / emergency plan
		onable to trace product	the process –transport management	
			system.	
			Tankers marked	
P6	Driver competency &	Microbiological, physical	Staff training and communication	Procedure and process
-	training (Including non-	or chemical hazards due	DTAS compliance	training
	directly employed staff)	to inadequate training of	Ensure training is to a level	Individual training records.
	, , , ,	the food transported	commensurate with their job	
P7	Agreed milk quality	Microbiological hazards	Raw milk specification	Raw milk specification
	standards		Producer contracts	Producer contracts
			Milk quality (payment scheme)	
			Minimum Legislative standards	
P8	Haulier approval	Microbiological, physical	Evaluation and approval of bulk milk	Haulier DTAS approval
		or chemical hazards due	hauliers (DTAS).	Haulier controlled
		to not complying to	Registered with local authority to	subcontractor service level
		agreed specification	ensure compliance with legislation	agreements
P9	Approved facility	All relevant hazards	DHI/EHO Licensed (or equivalent)	Proof or registration
P10	Quality Assurance	Relevant microbiological	Assured Dairy Farms scheme	Farm records
		hazards. Poor farm / vat		Traceability procedure
		hygiene leading to		Load documentation
		physical / chemical		
D11	Table 2	hazards	Mariahanana I.I. t. C. '''	CID
P11	Tanker cleaning –	Microbiological	Maintenance and cleaning of milk	CIP records
	internals, hoses, ancillary	contamination	collection vehicles. Approved	Wash books
	equipment, back box,	Physical contamination	haulage depots (DTAS) and CIP of	Pre-use inspection
	external cleaning. CIP	Allergen contamination	milk transfer equipment.	CIP station risk
	Wash station risk	Taint risks Chemical Hazards	Use of approved wash stations	assessment/ approval records
L	assessment / approval	Cricilical Hazalus	either:	Tecorus

	T	1	1	1
	Condition and maintenance of equipment and transport vehicles		Own CIP Customer defined Standard defined e.g. at dairy (processor controlled) Other risk assessed / approved CIP (by haulier) Sealing protocols (clean/dirty) Condition and maintenance of equipment and transport vehicles DTAS tanker specification. New / hired tanker controls Tankers marked food products only	Seal records
P12	Disposal of milk	Risk of contaminated / unsafe milk being processed onto market (e.g. antibiotics)	Adherence to ABP regulations / Feed Hygiene Legislation / Hauliers handbooks and Standard Operating procedures	Disposal records
P13	Driver Personal hygiene	Microbiological contamination Physical contamination	Adherence to Site hygiene requirements Uniform and PPE	Training requirements Personal hygiene procedure Fitness to work controls Site visitor control procedure Jewellery policy
P14	Planned preventative maintenance of vehicles and equipment – including calibration of temperature probes and flow meters	Microbiological, physical and chemical hazards due to poorly maintained / calibrated equipment	Maintenance & calibration schedule adhered to correctly	Maintenance / calibration records
P15	Staff Health	Microbiological hazard due to illness of staff	Illness reporting Return to work form	Company personal hygiene procedure Fitness to work procedure
P16	Staff personal hygiene	Physical / biological contamination of product (staff health/personal hygiene)	Adherence to Personal Hygiene policy Staff training Adequate welfare facilities	Personal Hygiene Procedure Staff training
P17	Control of contractors	Physical contamination of load/ product by engineering debris	Engineering controls; Condition and maintenance of equipment and transport vehicles; Staff training. Hand back / pre-use checks e.g. on tankers – wash if internal works	Wash records Maintenance records
P18	Complaints and non- conformance control	Issues not properly addressed and dealt with leading to repeats/ wider problems	Adherence to Complaints and non- conformance procedure	Complaint / non- conformance logs
P19	Crisis Management/ Business Continuity plan	Inappropriate response to emergencies that may affect product safety	Adherence to Haulier Emergency response manual / procedures	Emergency response manual / procedures

3.2 - Special measures

No:	Activity	Control Measure
SM1	Foot and mouth disease	Associated with animal health and welfare.
		Operate to Ministry guidelines.
SM2	Notifiable diseases such as Tuberculosis and Bluetongue.	Associated with animal health and potentially human health. Adhere to legislation via Drivers / Hauliers manuals and Standard Operating procedures – Effective heattreatment.
SM3	Radioactive fallout affecting agricultural land or haulage operation	Procedures and monitoring in place to monitor radioactive contamination in UK. Regional monitoring and alerts / notifications

from the Government agencies, FSA and
Environment Agency.
Any potential radiological risk would be
immediately notified by FSA, EA and NRPB.

4. Regulatory minimum quality standards

4.1 – Regulatory quality standards

Regulatory Compliance (EC) No: 853/2004

II. HYGIENE ON MILK PRODUCTION HOLDINGS

A. Requirements for premises and equipment

- 1. Milking equipment, and premises where milk is stored, handled or cooled must be located and constructed so as to limit the risk of contamination of milk.
- 2. Premises for the storage of milk must be protected against vermin, have adequate separation from premises where animals are housed and, where necessary to meet the requirements in part B, have suitable refrigeration equipment.
- 3. Surfaces of equipment that are intended to come into contact with milk (utensils, containers, tanks, etc., intended for milking, collection or transport) must be easy to clean and, where necessary, disinfect and be maintained in a sound condition. This requires the use of smooth, washable, and non-toxic materials.
- 4. After use, such surfaces must be cleaned and where necessary, disinfected. After each journey, or after each series of journeys when the period of time between unloading and the following loading is very short, but in all cases at least once a day, containers and tanks used for the transport of raw milk must be cleaned and disinfected in an appropriate manner before re-use.

B. Hygiene during milking, collection and transport

- 1. Immediately after milking, milk must be held in a clean place designed and equipped to avoid contamination. It must be cooled immediately to not more than 8° C in the case of daily collection, or not more than 6° C if collection is not daily.
- 2. During transport the cold chain must be maintained and, on arrival at the establishment of destination, the temperature of the milk must not be more than 10°C.
- 3. Food business operators need not comply with the temperature requirements laid down in points 1 or 2 if the milk meets the criteria provided in Part III and either
- (a) the milk is processed within two hours of milking
- (b) a higher temperature is necessary for technological reasons related to the manufacture of certain dairy products and the competent authority so authorises.

Regulatory Compliance (EC) No: 853/2004

III. CRITERIA FOR RAW MILK

- 1. The following criteria for raw milk apply pending the establishment of standards in the context of more specific legislation on the quality of milk and dairy products.
- 2. A representative number of samples of raw milk collected from milk production holdings by random sampling must be checked for compliance with points 3 and 4.

The checks may be carried out by, or on behalf of:

- (a) the food business operator producing the milk;
- (b) the food business operator collecting or processing the milk;
- (c) a group of food business operators;

or

- (d) in the context of a national or regional control scheme.
- 3. (a) Food business operators must initiate procedures to ensure that raw milk meets the following criteria:
- (i) for raw cow's milk

 Plate count at 30°C (per ml) <100,000(*)

 Somatic cell count (per ml) <400 000(**)
- (*) Rolling geometric average over a two-month period, with at least two samples per month.
- (**) Rolling geometric average over a three-month period, with a least one sample per month, unless the competent authority specifies another methodology to take account of seasonal variations in production levels.
- 4. Without prejudice to Directive 96/23/EC, food business operators must initiate procedures to ensure that raw milk is not placed on the market if either:
- (a) it contains antibiotic residues in a quantity that, in respect of any one of the substances referred to in Annexes I and III to Regulation (EEC) No 2377/90, exceeds the levels authorised under that regulation.

or

- (b) the combined total of residues of antibiotic substances exceeds any maximum permitted value.
- NB. Milk purchasers in their commercial contracts may require temperatures of 5 °C or lower to safeguard quality and shelf life of their products.

5.0 HACCP

5.1 Hazard analysis

Step	Potential Hazard Introduced or Controlled	Is the Potential Hazard Significant	Justification for Inclusion or Exclusion as a Significant Hazard	Likelihood (y) and Severity (x)	Preventative Measures of the Significant Hazards
	Biological Potential for material to be contaminated by collection tanker.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures. Vehicle maintenance and cleaning controlled by prerequisite programme. CIP logbook verified by driver prior to milk collection.	X	
1 Milk Tanker Preparation	Chemical Potential for material to be contaminated by collection tanker.	No	Not reasonably likely to occur; Vehicle maintenance and cleaning controlled by prerequisite programme. Drivers' responsibility to ensure that the tanker is completely drained of liquids after C.I.P. including visual inspection (e.g. adverse weather conditions).	X	
	Physical Potential for material to be contaminated by collection tanker.	No	Not reasonably likely to occur, controlled by adherence to Milk Collection and Customer Delivery Procedures and prerequisite programme. Filter integrity checked pre-shift, before and after every collection and delivery and at end of shift. Milk filtered (1.75 x 1.25 mm diamond shape) during collection and delivery.	X	

Step	Potential Hazard Introduced or Controlled	Is the Potential Hazard Significant	Justification for Inclusion or Exclusion as a Significant Hazard	Likelihood (y) and Severity (x)	Preventative Measures of the Significant Hazards
	Biological Potential for material to be contaminated during scheduled collection.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures.	X	
2 Milk Collection	Chemical Potential for material to be contaminated during scheduled collection.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures. Ongoing Government surveillance. Any potential radiological risk would be immediately notified by FSA / EA.	X	
	Physical Potential for material to be contaminated during scheduled collection.	No	Not reasonably likely to occur, controlled by procedures and prerequisite programme. Milk filtered (1.75 x 1.25 mm diamond shape) during collection. Milk visually inspected prior to collection.	X	

Step	Potential Hazard Introduced or Controlled	Is the Potential Hazard Significant	Justification for Inclusion or Exclusion as a Significant Hazard	Likelihood (y) and Severity (x)	Preventative Measures of the Significant Hazards
	Biological Potential for contamination during transfer to secondary vessel.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures. Temperature and age of milk covered by prerequisite programme.	X	
3 Transfer to Secondary Vessel	Chemical Potential for material to be contaminated during transfer to secondary vessel.	No	Not reasonably likely to occur; Vehicle maintenance and cleaning controlled by prerequisite programme. Driver's responsibility to ensure that the tanker is completely drained of liquids after CIP. Including visual inspection (e.g. adverse weather conditions).	X	
	Physical Potential for material to be contaminated during transfer to secondary vessel.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures.	X	

Step	Potential Hazard Introduced or Controlled	Is the Potential Hazard Significant	Justification for Inclusion or Exclusion as a Significant Hazard	Likelihood (y) and Severity (x)			Preventative Measures of the Significant Hazards
	Biological Potential for material to be contaminated during transportation.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures. Temperature and age of milk covered by prerequisite programme.			X	
4 Milk Transport	Chemical Potential for material to be contaminated during transportation.	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures.			X	
	Physical Potential for material to be contaminated during transportation	No	Not reasonably likely to occur; controlled by adherence to Milk Collection and Customer Delivery Procedures.		X		

Step	Potential Hazard Introduced or Controlled	Is the Potential	Justification for Inclusion or Exclusion as a	Likelihood (y) and	Preventative Measures
	introduced or Controlled	Hazard Significant	Significant Hazard	Severity (x)	of the Significant Hazards
5 Milk Delivery	Biological Potential for material to be contaminated during delivery.	No	Due to preventative control measures, the presence or growth of pathogens in the raw product is not considered significant at this stage. Raw milk not deemed safe to consume at this point. The raw product will undergo some form of bacteria-reducing process prior to consumption. Tanker cleaning details verified upon delivery. Vehicle security status verified upon delivery. Raw milk quality, age and temperature verified prior to acceptance.	X	
	Chemical Antibiotic residues detectable due to inadequate withdrawal time or improper treatment or by accident. Other drugs with milk withdrawal period	Yes No	Presence of veterinary residues may potentially be allergenic and/or cause antibiotic resistance in humans. No evidence of any issues at any significant level within the industry Managed at farm level by both legislation and the requirement for a veterinary prescription for these drugs. Statutory and non-statutory surveillance schemes run by the appropriate Government bodies.	X	Analytical analysis of each batch of milk prior to processing by receiving site. On site verification of farm. Periodic testing of producer samples.

Physical Potential for material to be contaminated during delivery.	No	Milk filtered during transfer to raw milk holding silo. Further filtration steps during processing (typically 1mm).		
			Х	

5.2 Determination of critical control points

Process Step	Hazard	Q. #1	Q. #2	Q. #3	Q. #4	CCP Yes or No
		Do control preventative measures exist? No – Not a CCP – However, if control preventative measures are required to ensure safety, then modify step, product, or process Yes – to Q.#2	Is the step specifically designed to eliminate or reduce the likely occurrence of the hazard to an acceptable level? No – to Q.#3 Yes - CCP	Could contamination with identified hazards occur in excess of acceptable levels or could these increase to unacceptable levels? No – Not a CCP Yes – to Q.#4	Will a subsequent step eliminate identified hazards or reduce the likely occurrence to an acceptable level? No - CCP Yes — Not a CCP	
5 Milk Delivery	Antibiotic residues above MRL and / or detectable levels due to inadequate withdrawal time or improper treatment	Yes	No	Yes	Yes (Milk receiving site)	No

5.3 HACCP plan

NO CCPs identified within the scope of this study.

Appendix A - Supporting documentation considered in construction of this HACCP – correct at time of publication (May 2023)

Standard Operating Procedures

- 1. Drivers Handbook Milk collection and customer delivery procedures.
- Hauliers Manual.
- 3. CIP code of practice for milk tankers.
- 4. Animal By-Products procedures.
- 5. Crisis management procedures.

Relevant UK & assimilated EU Legislation and relevant guidelines

- 1. Regulation (EC) No 852/2004 on the hygiene of foodstuffs.
- 2. Regulation (EC) No 853/2004 laying down specific hygiene rules for food of animal origin.
- 3. Regulation (EU) No 2017/625 on official controls and other official activities performed to ensure the application of food and feed law, rules on animal health and welfare, plant health and plant protection products.
- 4. Regulation (EC) No 2073/2005 on microbiological criteria for foodstuffs.
- 5. Commission Regulation (EC) No 2074/2005 laying down implementing measures for certain products
- 6. The Veterinary Medicines Regulations 2013 (SI 2033/2013)
- 7. Commission Regulation (EU) No 37/2010 on pharmacologically active substances and their classification regarding maximum residue limits in foodstuffs of animal origin
- 8. Food Safety Act 1990
- 9. Regulation (EC) No 178/2002 laying down the general principles and requirements of food law, establishing the European Food Safety Authority and laying down procedures in matters of food safety
- 10. Regulation (EC) No 1069/2009 laying down health rules as regards animal byproducts and derived products not intended for human consumption
- 11. Commission Regulation (EU) No 142/2011 implementing Regulation (EC) No 1069/2009 laying down health rules as regards animal by-products and derived products not intended for human consumption
- 12. The Animal By-Products (Enforcement) Regulations 2013, 2014, 2015
- 13. Commission Regulation (EU) 1881/2006 on maximum levels for certain contaminants in food.
- 14. Regulation (EC) No 396/2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin
- 15. Regulation (EC) No 183/2005 laying down requirements for feed hygiene
- Dairy UK Industry Guide to Good Hygiene Practice Milk and Dairy Products. UNDER REVIEW
- 17. FSA Information and guidance on the testing of milk for antibiotic residues (2015)
- 18. Codex Alimentarius General Principles of Food Hygiene (CXC 1-1969) and HACCP annex (revised 2020)
- 19. ACMSF The possible health risks to consumers associated with Mycobacterium bovis and milk. Part I Pasteurised milk and milk products (ACM /995)
- 20. Dairy Transport Assurance Scheme (DTAS), revised standards May 2023-March 2024 v13 (as at March 2023)
- 21. Dairy UK Tanker Cleaning Code of Practice (v3 May 2021)
- 22. Dairy Transport Assurance Scheme Guide to outbased reload sites

- 23. IDF Guide to Prudent Use of Antimicrobial Agents in Dairy Production (2013)
- 24. FSA Food Handlers: Fitness to Work
- 25. Dairy UK Due Diligence Scheme (annual report)
- 26. Joint statement from the National Office of Animal Health (NOAH) and the Veterinary Medicines Directorate (VMD) on the use of flukicides in dairy cattle (2020)
- 27. Annex II of the EU Food Information for Consumers Regulation No.1169/2011 and Commission Delegated Regulation (EU) No. 78/2014 amending Annex II to Regulation (EU) No 1169/2011 [list of 14 allergens that must be labelled or indicated as being present in foods].
- 28. Current prevailing Red Tractor Assurance Standards October 2022 v5
- 29. Organic standards (relevant to UK)

Forms

- 1. Tanker cleaning logbook (Cleaning verification)
- 2. Vehicle security form
- 3. Route collection summary
- 4. Reload/transhipment summary
- 5. Traceability
- 6. Incident report/rejection forms
- 7. Animal by Product (ABP) Paperwork
- 8. HACCP poster for producers referring to antibiotics (revised and reissued March 2014)
- 9. BCVA on farm antibiotic bulk tank investigation form

Appendix B - HACCP review

A HACCP review should be conducted annually to review the need to revise the HACCP plan. This review ensures a critical evaluation of any changes that may affect overall product safety.

The following items are assessed to determine if a review of the HACCP plan is required.

- 1. Actions arising from audits, nonconformities or complaints.
- 2. Changes to raw material suppliers.
- 3. Changes to customer or consumer use.
- 4. Changes to storage, collection or distribution systems (Farm and haulage).
- 5. Changes to current testing schedules
- 6. New or emerging hazards (Microbiological, Physical. Chemical)
- 7. Developments in scientific information associated with raw milk
- 8. Changes to legislation or relevant guidelines

Data arising from HACCP reviews should be documented and forms part of the HACCP record keeping system.

2024 REVIEW

No:	Raw Milk HACCP Review	Changes	
	Agenda	Yes	No
1	Number of non-conformances raised in last DTAS audit	103	
2	Of the above NCs, how many were related to Food Safety?	54	
3	Changes to raw material suppliers significant to HACCP.		N
4	Changes to customer or consumer use.		N
5	Changes to storage, collection or distribution systems (Farm and haulage).		Ν
6	Changes to current testing schedules.		N
7	New or emerging hazards (Microbiological, Physical. Chemical).		N
8	Developments in scientific information associated with raw milk.		N
9	Changes to legislation or relevant guidelines.	N	
10	Have you verified the DTAS HACCP ensuring it meets the specific activities of the local operation to which the HACCP applies?	Y	
11	HACCP Team Leader to complete	Da 14.0	

Comments/Considerations

Points considered during the review meeting included

- Actions arising from audits identified in the questionnaires.
- Recommendation of implementing a TACCP/VACCP study to support the HACCP, that would include
 malicious contamination and fraud hazards as considerations not progressed but remains as a
 recommendation.
- Current auditing process has been reviewed in detail. The HACCP Team is proposing a review of audit
 grading to reflect severity. Throughout 2024, the HACCP team will review the standards to make
 recommendations on risk-assessed scoring ahead of the 2025 review. The topic is to be discussed
 during the next Governance meeting.
- 2024 review highlighted a challenge in relation to repeated non-conformances. This is of particular importance if Food Safety NC's are reoccurring. The process of NC's is to be reviewed during the next Governance meeting. Key points for discussions are: possibility of increased audit frequency and audits being unannounced.
- Despite best efforts and clear communication, there are a number of Hauliers that have not provided a
 response to the annual questionnaire escalation and possible penalty to be introduced. Pending
 discussion with Governance Team.
- The Assured Integrated Milk Supplier Scheme (AIMS) was operating on a pilot basis during 2023. The
 scheme has gone live from January 2024. It is important to acknowledge that any haulier participating
 in AIMS is required to be DTAS certified.
- A trained, and competent, individual should be responsible for the HACCP in line with DTAS Standard requirements A5.1 and A5.2 to enable verification and acceptance of the DTAS HACCP.
- Consistency of DTAS auditors agreed to progress with annual re-calibration to discuss HACCP requirements delivering continuous improvements.
- The DTAS standards have been amended to clarify Food Safety clauses. This should enhance functionality and easiness of use.
- DTAS HACCP questionnaire in place with guidance for completion to ensure consistency.
- HACCP Awareness training was introduced from 2024, and is delivered through an online platform provided by Techni-K
- Submissions from individual hauliers in response to the HACCP questionnaire have been considered and registered below.
- Updated legislation references are in line with the UK exit from the European Union.

HACCP Review Meeting Date	14.03.2024
Team members present at meeting	DTAS members reviewed by questionnaire
Rowena Marshall (Arla Foods)	Alvis Contracting
John Whitelaw (TP Niven)	Arla Foods Aylesbury
Jen Shelton (Organic Herd)	 Arla Foods Burton upon Trent
Gosia Johnstone (Saputo Dairy UK)	 Arla Foods Chester
	 Arla Foods Four Crosses
	 Arla Foods Lockerbie
	 Arla Foods Stourton
	 Arla Foods Westbury
	 Wm Armstrong (Longtown) Ltd
	S J Bargh
	Berkeley Farm Dairy
	R & EJ Bowker
	Buckley Farm Dairy
	 Carron Transport Ltd
	 Chew Valley Dairy
	 CJS Transport Services Ltd
	 S Connolly & Son
	 Cotteswold Dairy Ltd
	Dale Farm Cooperative
	 Dales Dairies

- Dalton Livestock
- Dennis Distribution
- J&E Dickinson
- Edwards Haulage (Ruabon) Ltd
- Edwards Transport (Shropshire) Ltd
- Embleton Hall Dairies
- Frazer Haulage
- Freightage Ltd
- P Gallagher & Son Ltd
- Graham's The Family Dairy Ltd
- Gregory Distribution
- Isle of Man Creamery
- John Mackirdy Ltd
- Lancashire Farm Dairies
- Llaeth Cymreig cyf
- Long Clawson Dairy
- Lowcock Transport
- R W Loxton
- Mark Hunter Ltd
- MDS Distribution Ltd
- M Keys Transport
- MilkTrans
- M J Refrigeration Transport Ltd
- Mona Island Dairy Ltd
- Montgomery Tank Services
- Müller Milk & Ingredients Distribution Amesbury
- Müller Milk & Ingredients Distribution Bellshill
- Müller Milk & Ingredients Distribution Bridgwater
- Müller Milk & Ingredients Distribution Manchester
- Müller Milk & Ingredients Distribution
 Market Drayton
- Müller Milk & Ingredients Distribution Stonehouse
- TP Niven Charlton Adam
- TP Niven Lockerbie
- TP Niven Mauchline
- TP Niven Stranraer
- North Down Grain Ltd
- Parkham Farms
- Pattemores Transport Ltd
- Paynes Dairies
- Richard Thomas Transport Ltd
- Rivermead Dairy Ltd
- Seaways Services (UK) Ltd
- G&J Shuttleworth Ltd
- South Caernarfon Creameries
- South Lakes Organic Milk
- TG Trans Ltd

- Trewithen Dairy
- Turners (Soham) Ltd
- Valley Transport Services Ltd
- H Walker & Son
- J H Willis
- Wilsons of Kendal Ltd (formerly JS & KM Wilson & Son)
- Wincanton

Name	Company, job title & HACCP qualifications	Dairy Experience
Jen Shelton	Organic Herd Ltd. – Head of Product Management, Technical and Supply Chain Level 4 HACCP, Level 4 Food Safety Management. 30 years' experience in food industry.	14 years
Gosia Bycio	Saputo Dairy UK - Group Technical Support Manager HACCP Level 4, MSc in Food Industry Management	14 Years
John Whitelaw	TP Niven – Milk Contract Manager DTAS Auditor / Assessor	34 Years
Rowena Marshall	Arla Foods - UK Senior QEHS Business Partner HND Food Science, MBA (Strategy), Lead Assessor, HACCP level 2	39 Years