



Whey Protein Concentrate Incident Tracing and Verification Report

WPC 2013 Response

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Prepared by MPI WPC 2013 Response Team

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The facts outlined in this report are those known at the time of finalising this report (25 August 2013) and are noted solely to identify the systems and processes undertaken by MPI in the tracing and verification of potentially contaminated product. MPI has initiated a compliance investigation, which is an entirely separate and independent process from this report.

Please also refer to the opening remarks in the introduction section for further comment about limitations associated with this report.

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1 Executive Summary

On 2 August 2013, the Ministry for Primary Industries (MPI) was informed by Fonterra Co-operative Group (Fonterra) of a possible food safety issue relating to the potential bacterial contamination of some batches of whey protein concentrate (WPC80) produced at Fonterra's Hautapu site in New Zealand. This WPC80 had produced test results suggesting the presence of spores of the bacterium *Clostridium botulinum*. Upon receipt of this information MPI immediately moved to protect consumers in New Zealand and international markets, by providing as much information as possible to offshore regulators and consumers, including by way of the Acting Director-General of MPI issuing statutory statements providing cautionary advice and information to consumers, by working with the relevant companies on voluntary recalls, and by seeking to track all potentially affected products through the supply chain as quickly as possible.

Based on the information received to date, MPI is now confident that all known potentially affected products originating in New Zealand have been adequately traced and managed, either through voluntary product recalls in New Zealand (backed up by Notices Of Direction preventing export), through capturing potentially affected products in the supply chain in New Zealand, or through notifying overseas authorities of (and where possible detaining) exports from New Zealand of known potentially affected products.

Subsequent technical investigations by MPI have verified that the contamination occurred when whey protein concentrate was processed through a temporary connection pipe at the premises at the end of the 2011/2012 season. There was an extensive end-of-season cleaning regime, prior to start up for the 2012/2013 season, which limited the amount of product that was potentially affected.

There have been no cases reported to the New Zealand Ministry of Health of infant botulism; nor have any cases been reported where infant botulism looks likely to be the cause. Similarly, MPI is not aware of reports of any such cases reported internationally that have been linked to this event.

WPC80 is used as an ingredient in a range of products in a number of markets. These products include infant formula, other nutritional powders and base powders used in nutritional and infant powders. Processors typically mix WPC80 with larger volumes of other ingredients in order to manufacture their specialist products.

MPI is the Competent Authority responsible for regulating food safety in New Zealand. MPI carried out the following tracing and verification activities in New Zealand to ensure that potentially affected product has been identified:

- On site visits to the originating site (Fonterra Hautapu) to confirm that Fonterra's initial investigation had adequately defined the scope of the problem.
- Review of company test results and their validity to confirm whether the scope of the problem above was supported by the results available at the time.
- Review and verification of relevant records to trace potentially affected WPC80 that was sold directly, or used as an ingredient.
- Review of relevant records to trace potentially affected waste streams from the WPC80 manufacturing process which were used in stockfood.
- On site visits to key New Zealand operations in subsequent processing and storage to:
 - verify manufacturing records;

- verify physical inventories; and
- verify product movement records.

Fonterra also initiated their own trace back to identify and manage potentially affected products.

MPI took a cautionary approach to the issue because of the potential risks to the health and wellbeing of consumers. MPI therefore sought to identify and locate both products that may have contained the suspect WPC80 as an ingredient and also those that may have been indirectly affected (e.g. through packing on the same line as that used to pack directly affected product). (MPI also immediately initiated work to verify the test results Fonterra presented it with, in particular to confirm the exact contaminant. This work is still underway. As soon as MPI receives information and results to enable it to make a decision on the tests results provided by Fonterra, MPI will inform everyone).

MPI also took the following actions to ensure that product potentially containing suspected Clostridial spores was managed appropriately:

- MPI conducted safety assessments for a number of products which incorporated the affected WPC80. Some products were deemed to be potentially affected and therefore a risk to consumers. These products were traced by the operations team. MPI conducted a risk assessment for certain products which determined that the risk of contamination was negligible. In the case of Ultra Heat Treated (UHT) beverages MPI's assessment showed that these did not represent a risk to consumers and did not need to be included in the trace.
- MPI informed the regulatory authorities in known affected countries of potentially affected products exported from New Zealand. MPI provided full consignment and consignee information (where available) to facilitate trace back in their jurisdictions. MPI worked with the recipient countries of affected certified products to verify trace back and to ensure that potentially affected product is placed within competent authority control. MPI has also been advised by Fonterra that it has contacted its customers who received affected products, and where appropriate, is working with them to have the products returned to New Zealand.
- Recognised Agencies (including AsureQuality) verified the location and security of all products on hold and reported regularly to the MPI Operations team.
- MPI's Acting Director-General formally issued public statements under the Animal Products Act 1999 and the Food Act 1981 notifying that certain named infant formula products sold in New Zealand should not be consumed.
- MPI worked with Nutricia New Zealand Limited (Nutricia) who initiated a voluntary recall of potentially affected products on the New Zealand market.
- MPI stopped issuing export certification for any potentially affected products.
- MPI issued legal Notices of Direction to New Zealand exporters and businesses prohibiting them from exporting potentially affected products.
- Because affected product was exported to Australia, and then returned to New Zealand (in some instances), MPI worked closely with the Australian Department of Agriculture, Fisheries and Forestry (DAFF), to identify and trace product on the Australian and New Zealand markets.
- Australian Authorities advise MPI that all potentially affected product processed in Australia has been identified and traced back. In the case of exports to 3rd markets Australian authorities advise that they have informed competent authorities in those countries where potentially affected product has been sent. MPI has a high level of confidence that potentially affected products processed in Australia have been identified and managed appropriately.

- MPI has taken all reasonable steps to track down and manage any potentially affected products that were exported without certification prior to the Notice of Direction that prevents further exports of products subject to the trace. Countries that may have this product in their jurisdictions have been notified.
- All of the potentially affected product in New Zealand is being appropriately managed, through product recall and then held in secure premises. Legally binding Notices of Direction prohibit export of any potentially affected product from New Zealand.

Based on the information known to us, MPI is confident that the contamination affected only the last three days of the 2012 season WPC80 manufacture (17, 18 and 22 May 2012). Investigations to date show that the contaminated base product was isolated to the Hautapu plant and only to the WPC80 product and certain products which incorporate WPC80, or were packed on the same line as those products. Technical investigations strongly suggest that no other ingredients or products were contaminated. The temporary pipe which has been identified as the cause of the contamination was removed following its use and was subsequently decommissioned.

2 Introduction

This report is an account of the actions of MPI in response to notification of a product non-conformance by Fonterra on 2 August 2013.

The facts outlined in this report are those known at the time of finalising this report (25 August 2013) and are noted solely to identify the systems and processes undertaken by MPI in the tracing and verification of potentially contaminated product.

This report does not purport to make findings about any company named in it. Companies named in the report are so named because of their placement in the factual picture of the supply chain, or their association with this incident. Nothing said in this report about any company is a finding or implies any finding that it did anything in contravention of any law, standard, best practice or behaviour. As noted in section 5 of this report ('Next Steps and Recommendations'), MPI has initiated a compliance investigation, which is an entirely separate and independent process from this report.

2.1 NOTIFICATION AND INITIAL INFORMATION PROVIDED BY FONTERRA

At 12:35 pm on Friday 2 August, Fonterra notified MPI of a product non-conformance related to a bacterial contamination. This affected dairy products on the market in New Zealand and exported to a number of countries.

In summary, the initial information provided by Fonterra on 2 August was as follows:

- The contamination affected 3 batches of Whey Protein Concentrate (WPC80) produced in May 2012 at the Fonterra Hautapu plant, which is subject to a risk management programme (R007) registered under the Animal Products Act 1999.
- The contaminated WPC80 had been used as an ingredient at other Fonterra New Zealand plants: Fonterra Waitoa (R122) and Fonterra Canpac (R135).
- Products potentially affected were identified as infant formula, follow-on formula, yoghurt, beverages, and powders used in sports drinks.
- Product (either WPC80 or other products) had been directly exported to Australia, China, Vietnam, Saudi Arabia and Thailand..
- Product exported to Australia had been manufactured into further products and onward exported.
- Fonterra supplied an Exporter Non-Conformance at approx 4:00 pm on 2 August 2013 that provides specific details of exported products: MPI Health Certificate numbers, Cypher numbers, Product Names, Destinations, Importers and Vessel/Voyage details.
- At about 7:00 pm (on Friday 2 August) Fonterra reported that WPC80 exported to Danone Australia had also been formulated by Nutricia at three New Zealand manufacturing facilities into Follow On Formula. At that time, Fonterra indicated that four batches were exported to China, and one batch was for sale in New Zealand.

MPI rapidly initiated a response to ensure that consumers (in New Zealand and in all affected overseas markets) were made aware of the issue and all potentially affected products were identified and managed appropriately. This was done based on the information that was available at the time, prior to confirmation of the bacterial strain and any toxin-producing ability, and also prior to the completion of a formal safety assessment. Because of the potential risks to the health and wellbeing of consumers, MPI took a cautionary approach by tracing and verifying both the products that may have contained the suspect WPC80 as an

ingredient and also those that may have been indirectly affected (e.g. through packing on same line as that used to pack the directly affected product).

This report explains the tracing and verification completed by MPI.

2.2 POTENTIAL HAZARD

The potential hazard was identified by Fonterra as *Clostridium botulinum*, a bacterium which may produce the toxin that causes botulism.

Botulism has five forms: foodborne, infant, adult infectious, wound and inadvertent (WHO, 1999). Food may be a vehicle in the first three forms and the mechanism can be intoxication (ingestion of pre-formed botulinum neurotoxin) or toxico-infection (toxin produced during spore germination in the intestine under the right conditions). The latter is associated with infant (prior to the introduction of solids) and adult infectious botulism.

Not all *C. botulinum* cause illness in humans. Strains produce one of seven known types of neurotoxin (A to G). Only those producing types A, B, E and F (rarely) cause botulism in humans. Strains are also separated into groups based on physiological differences: Group I (can produce A, B or F toxin) are proteolytic and cause food spoilage; Group II (can produce B, E or F toxin) are non-proteolytic and may be present in foods without obvious spoilage. Each group has different optimal growth conditions.

C. botulinum spores are found worldwide distributed in soils, dust and sediments, but at very low concentrations. Strains producing botulinum neurotoxin types A, B, C, D and F are generally soil and dust organisms. Type B, C and D producing strains have also been recovered from marine sediments. Type E-producing strains are marine inhabitants.

Most transmission is foodborne. Person-to-person transmission does not occur.

Refer to MPI's Hazard Datasheet for further information on the hazard:

http://www.foodsafety.govt.nz/elibrary/industry/Clostridium_Botulinum-Neurotoxins_Produced.pdf.

2.3 TESTING

MPI's response was initiated following notification by Fonterra on 2 August of the potential contamination. Even though the result was unconfirmed, Fonterra presented MPI with a presumptive confirmation of *C botulinum*. MPI initiated a cautionary response to protect the health and wellbeing of consumers in New Zealand and internationally.

MPI understands, on the basis of information provided by Fonterra, that five batches of nutritional powder produced at a Fonterra Australia establishment were tested by Fonterra as a standard customer requirement set by Danone. The initial series of tests carried out in March 2013 were screening tests for sulphite-reducing clostridia (SRC), which detects particular species of *Clostridium* bacteria (not specific to *C. botulinum*). In March 2013, Fonterra Australia became aware that *Clostridium* results in some of this finished product exceeded Danone's specifications and was downgraded to stockfeed. The colony forming units per gram (cfu/g) ranged between 29-98.

As part of the ingredient trace back, the series of screening tests were followed up by testing those WPC80 retention samples that related to the nutritional powder in which the issue was initially detected for SRC. These retention samples were from three production dates with cyphers JW17, 18 and 22 which were produced at Fonterra's Hautapu plant in New Zealand and showed elevated levels of SRC consistent with a contamination event. Additional nutritional powders produced at Hautapu during May 2012 which did not make use of the same equipment were also subject to testing and did not show abnormal levels of SRCs.

The WPC80 trace back tests also identified *Clostridium*, and established that the problem originated with three batches of WPC80 that had been produced at Fonterra's Hautapu site in New Zealand in May 2012 coded with the three cyphers (JW17, 18 and 22).

Further testing of the *Clostridium* isolates was performed, and these tests gave results that may be consistent with *Clostridium botulinum*. This, MPI understands, was presumptively confirmed on 31 July 2013. Fonterra advised MPI on Friday 2 August 2013 at 12:35pm.

Fonterra advised that during its internal investigation of the SRC results it had conducted a MALDI TOF mass spectrometry test in the April-May 2013 period, which confirmed that the same type of *Clostridium* was present in both the nutritional powder produced at a Fonterra Australia plant and the WPC80 retention samples. The tests of the nutritional powders and the WPC80 retention samples, and the MALDI TOF results, established that the problem originated in the Fonterra Hautapu plant.

It was identified that the isolates were either *C. sporogenes* (non-toxic) or *C. botulinum*, and that further typing would be carried out to confirm the species and strain.

On 26 June, Fonterra formally engaged AgResearch to undertake a mouse bioassay test.

On 31 July, AgResearch reported to Fonterra the mouse bioassay results for all three isolates from the WPC80 as presumptively confirmed positive for *C. botulinum*.

MPI considered that the AgResearch diagnosis needed to be validated, using independent, internationally recognised laboratories and test methods. MPI has therefore initiated multiple testing procedures in New Zealand and overseas. This will determine whether the bacteria are toxin-producing, and if so, the identity of the toxin type (A-F).

NB: Testing is not generally conducted for *C. botulinum* in the New Zealand dairy processing industry or internationally. Codex Alimentarius recommendations do not include routine testing for *C. botulinum* in dairy products (except in the case of aseptically packaged food products where a more intense heat treatment is applied that effects a 12 decimal reduction in *C. botulinum* spores).

2.4 RISK MITIGATION

Risks from *C. botulinum* can be mitigated by exposure of vegetative cells to 60°C for a few minutes and spores are relatively resistant to heat.¹ Thorough cleaning can remove bacteria from food processing equipment surfaces and the processing environment. A pH of below 4.6

¹ D74°C = <3 minutes in various substrates and pH values (for types A, B and E) where D = Time (minutes) to reduce a population by 90% at a given temperature. A 12-D reduction (equivalent to 121°C for 3 min.) known as the "botulinum cook" is used in canning of low-acid foods (pH>4.6). Since high-acid foods (pH<4.6) do not support germination and growth of Group I spores, the "botulinum cook" is not necessary. Group I spores are considerably more heat resistant than Group II spores. A 6-D reduction, equates to 90°C for 10 min. is generally considered sufficient for destruction of Group II spores.

will prevent germination of spores. Toxins are inactivated at pH=11 and are relatively sensitive to heat.

MPI took into account the risk mitigation measures that had been applied when determining the scope of the potentially affected product.

2.5 ROLE OF INDUSTRY

Food safety legislation in New Zealand puts the onus for managing safety and suitability of food on the producer or processor of the food. Under the Animal Products Act 1999 (APA), Risk management programme (RMP) operators are required to comply with various Standards and Specifications related to dairy production and manufacturing, and to operate under one or more registered RMPs covering their operations from farm through to export. These programmes must manage hazards and other risk factors to ensure that products are fit for intended purpose. RMP operators are required to notify MPI of contamination events, and conduct a product recall if warranted.

2.6 ROLE OF MPI

MPI is the Competent Authority responsible for regulating food safety in New Zealand. This means MPI is an independent, science-based and objective regulator of the safety and suitability of food for domestic consumption and to point of export.

MPI-recognised verifiers carry out ongoing checks to determine whether animal product operations comply with the relevant Standards and Specifications under the APA and with the registered RMP. Where an official assurance is required for export products, the MPI-recognised verifiers also check that the product was produced or processed in a way that meets the requirements for the appropriate official assurance.

When MPI is aware of or is notified of a non-conformance, it has a range of regulatory measures available to ensure that the non-conformance is appropriately managed.

When taking appropriate action, MPI has to be cognisant that it must, amongst other things:

- reinforce its reputation as a Competent Authority that can be trusted to ensure that New Zealand's food producers and processors produce safe and suitable food, or if not, to take appropriate action to protect consumers;
- facilitate timely tracing of potentially affected products in domestic and overseas markets; and
- enable Competent Authorities in overseas markets to provide assurances to their consumers that the issue is being managed appropriately.

2.7 ROLE AND METHODOLOGY OF THE OPERATIONS RESPONSE TEAM

MPI immediately set up a Response Structure on Friday 2 August to manage the event. An Operations team was established to identify, trace, lock down and manage disposition of potentially-affected product.

The Operations team started with a high-level product flow diagram supplied by Fonterra and built on this diagram as new information was obtained from Fonterra and its customers over the period (2-22 August). The high level flow diagram was revised based on input from companies, verifiers and other MPI experts.

These experts reviewed:

- Fonterra's information on the cause of the contamination (see 2.7.1) and
- how the original scope of the contamination event was determined (see 2.7.2).

Following this, the Operations team managed the tracing, lock down and disposal of potentially-affected product (see section 3).

2.7.1 Determination of Scope of the Contamination Event

On the last three days of WPC80 manufacture for the 2011/2012 dairy season,² the Fonterra Hautapu manufacturing premises produced three batches of WPC80 out of a rework process. This manufacture occurred from 15 May 2012 through to 18 May 2012, with the product packed on May 17, 18 and 22 (Cyphers JW17, JW18, JW 22).

On receipt of advice in March 2013 that the product had failed to meet customer specifications, an investigation was undertaken by Fonterra. Data from the operator's investigation indicates that a unique set of circumstances resulted in this isolated incident:

- (i) The dairy material for reworking was reconstituted, chilled and then processed as usual. Equipment for reconstituting (rehydrating) dairy material had been decommissioned so temporary equipment was introduced into the plant to facilitate this processing aspect (hence this has been referred to as non-standard equipment). All equipment was made of suitable food grade materials but had not been in use for some time (the time period has not been specified). This was a temporary set up for reconstitution of product during processing.
- (ii) The WPC80 was processed over the last 3 days of the dairy season, and then the temporary equipment was removed. This temporary set up has not been used since.
- (iii) All equipment was subject to cleaning in place (CIP) prior to use. This included cleaning with an alkali (sodium hydroxide) followed by an acid sanitiser and rinse. All equipment was also subject to CIP after each day's manufacture.
- (iv) Immediately prior to and following manufacture of the WPC80 the plant also manufactured a protein hydrolysate. All analytical results for this product show SRC to be less than 25 cfu/g. Whilst there was common processing equipment used for both the WPC80 and the hydrolysate (SCUF plant hopper, three reconstitution tanks and the chiller), the temporary equipment associated with the contaminated WPC80 was not used for the hydrolysate. This helped to identify the likely source of contamination.
- (v) The rework was completed using manufacturing equipment common to the hydrolysate and fresh WPC80 manufacturing processes, with the exception of:
 - Food grade flexi-hoses for the reconstitution tank flowplate to chiller, ex-chiller to

² Due to the pastoral system the dairy season ends in May, resuming again in July, except for some farms that cater for domestic fresh milk demands all year around

the microfiltration line (MF) line, and the by-pass from the plate heat exchanger on the MF line, and
- the microfiltration line (also known as SCUF feedline) and NS silos (normalising silos)

- (vi) The Operator's investigation concluded that the cause was either within the product lines used to deliver the reconstituted product to the routine process or within a microfiltration line.
- (vii) The data immediately to hand suggested that either the reconstituted product line or the microfiltration line contained a protein deposit/biofilm. This is likely to have harboured Clostridia spores and may not have received the full effect of the CIP. The majority of the evidence pointed to the reconstituted product line being the cause of the problem. Microfiltration will normally reduce rather than increase microbial contamination.
- (viii) The entire plant was cleaned again for the start of the next production season, which started in July 2012.
- (ix) Extensive physical cleaning in addition to multiple cleaning in place procedures and the decommissioning of the non-standard pipe has eliminated the risk of further contamination at the Hautapu site.

Appendix 1 has a file "Slide Pack Aug 5 Hautapu Investigation" showing Fonterra's findings in more detail.

2.7.2 Determination of Scope of Contaminated Product

MPI expert review of Fonterra's Hautapu WPC80 line test results indicates that no other product, including the protein hydrosylate, was affected by this contamination event.

MPI experts also reviewed the potential flow on effects from this contamination event to other products processed or packed on any of the same manufacturing lines up to the final bulk or retail packed product state.

A rapid response by MPI was taken given the available facts indicated potentially serious health effects resulting from consumption of the product. Potentially affected and indirectly affected product were identified, traced and controlled. A limited safety assessment, which considered risk mitigations, was conducted on the UHT treatment of one traced line of product and determined there to be no risk of contamination of this product. The product line was excluded from the scope of potentially affected product. Other safety assessments helped determine actions for products such as stockfood.

Remaining products of concern were then considered to fit into one of the following risk categories:

Directly Affected: This is product which is either the potentially contaminated WPC80 itself, or product which is known to have incorporated the potentially contaminated WPC80 directly as an ingredient.

Potentially Indirectly Affected: This is product for which the potentially contaminated WPC80 was NOT directly added as an ingredient, but for which we

have not yet ruled out the theoretical potential for some cross contamination to have occurred as a result of the lot being processed or packed on the same lines.

Potentially Affected: Includes all Directly Affected and Potentially Indirectly Affected Product (would normally be separately identified for each of the categories).

Not Affected: Product for which potentially contaminated WPC80 has NOT been added and for which MPI has determined that the risk from cross contamination is negligible for the intended consumer.

As MPI constructed the overall picture, it carried out in-depth reconciliation of potentially affected product records. This has been an iterative process, with all information flows being tested against each other.

It was found that a limited amount of WPC80 was initially contaminated (38,229kg). The affected WPC80 was then subsequently used as an ingredient by several manufacturers both in New Zealand and overseas. It was used in some batches of infant formula, juice/dairy beverages, yoghurt, a body building product and stock food (the latter only sold in New Zealand). It was also used in milk base powder which sometimes became an ingredient in other products, either in New Zealand or overseas. The final picture is detailed below.

2.7.3 Verification of Supplied Information

An MPI Verification Services (MPI VS) verifier and a Systems Audit Team (MPI SAT) investigator have verified, on-site at Fonterra Hautapu, the information Fonterra provided: that the contamination affected the last three days of the 2012 season WPC80 manufacture (May 2012); that the contaminated base product was isolated only to the Fonterra Hautapu plant and only to the WPC80 product; that no other ingredients or products were contaminated; that these last three batches were processed using separate, non-standard items of equipment which has subsequently been considered to be non-sterile; that in July 2012 there was an extensive end-of-season plant cleaning regime - consisting of two full CIPs (Cleaning-In-Place) followed by sanitising. This cleaning was prior to start up for the 2012/2013 season.

3 Tracing and Verification Findings

Based on the information received to date, MPI is confident that all known potentially affected products originating in New Zealand have been accounted for and all reasonable steps have been taken to prevent potentially affected product from being used or consumed. This has been achieved through product recalls in New Zealand backed up by Notices Of Direction preventing export, through capturing potentially affected products in the supply chain in New Zealand, or through notifying overseas authorities and where possible detaining exports from New Zealand of known potentially affected products. The following is a summary of the full product trace conducted by MPI.

MPI sent technical investigators to each of the affected or implicated premises. In addition, MPI sent auditors to all the relevant Fonterra and other company offices to further verify the accuracy of all information commercially supplied. More details are provided later in the report.

MPI's investigations confirmed the validity of Fonterra's logic and evidence when determining the scope of the initial contamination event at Hautapu. Three batches of potentially affected WPC80 were identified. These batches were defined by Fonterra as three Whey Protein Concentrate (WPC80) cyphers from Hautapu (JW17, JW18, JW 22) and their associated waste/loss streams (JW21, JW31).

MPI's investigations showed that there were four major product streams that were potentially affected either directly or indirectly from the initial contamination event. These included:

- bulk export ex Waitoa (see 3.2);
- Abbott product ex Fonterra Canpac (see 3.3);
- Nutricia-branded products (see 3.4); and
- Stockfeed (see 3.5).

A summary of the tracing and verification activities for all product streams is given in sections 3.1 to 3.5 of this report.

Detailed spreadsheets with more information are given in Appendices.

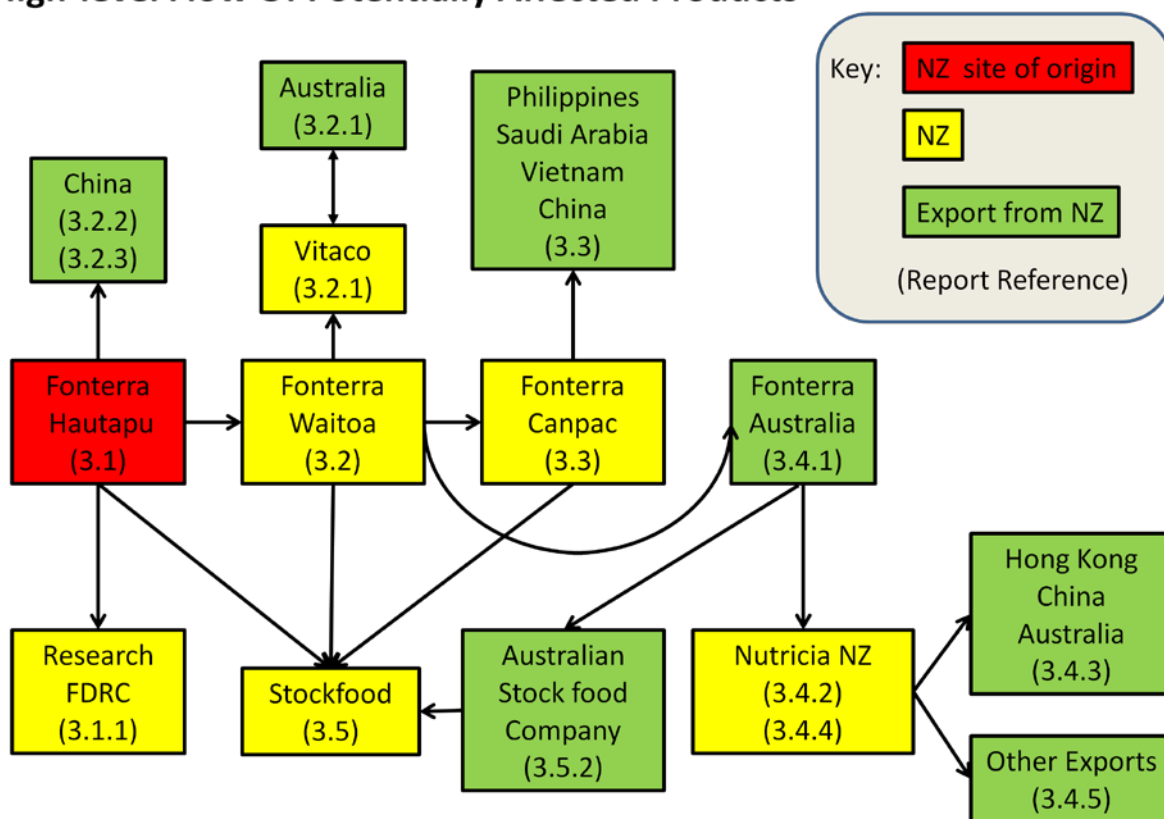
A diagram showing a simplified product tracing is shown below. A more detailed diagram is given in Appendix 2.

Important Notes:

Different companies have different tracing systems, which complicated matters. Product was identified by a combination of Cypher (manufacturing date), batch code, pallet numbers, container seal number, and/or export certificate number. Several products may be made on any one site on any one day, so these products have the same Cypher but other details (including ingredients) could be different, so a Cypher alone was insufficient to identify and trace product before determining status. The key identifier was found to be the batch code, but this did not always relate precisely to product movement as some batches were split up for sale to different customers. The identification of which product went to which overseas market needed to be confirmed using export certificates (where these were required).

Affected product reconciliation down to individual packs was problematic, especially where an affected WPC80 batch was used as an ingredient. Each of the recipient products has a different formulation so WPC80 was used at different rates. This means that if X kg of WPC80 was used it could have ended up in, e.g. Y kg of product A and Z kg of product B etc. For accurate tracing, detailed formulations were required. MPI took all reasonable steps to confirm quantities. In some cases, the traceability was limited to identifying how much affected or potentially affected product went where (in bulk terms) and a check that claimed quantities were logical given all information that was to hand.

High-level Flow Of Potentially Affected Products



NB: The above diagram only shows the potentially affected products within New Zealand's jurisdiction. Some products may have moved beyond the extent of this diagram and New Zealand has notified all jurisdictions that have received product directly from New Zealand.

3.1 PRODUCT MOVED FROM HAUTAPU

WPC80 was moved out to three different streams from Fonterra Hautapu usually via one or more dry stores:

- bulk to Fonterra Waitoa for further processing;
- in a single consignment of one 25 kg bag for research and trials; and
- bulk for stockfeed.

Fonterra Waitoa received 37.75 metric tonnes of WPC80. Tracing of this product is described in section 3.2 and is more fully detailed in Appendix 6.2

Loss streams were collected for stockfeed and sent to NZAgBiz. Tracing of this product is described in section 3.5.

3.1.1 WPC80 Used in Research and Trials

One 25kg bag of WPC80 (1239 JW18 C1641) was sent to Fonterra Research and Development Centre (FRDC), Palmerston North.

Of the 25kgs supplied 24.070kg is accounted for through trace back of records on site:

- 3.8kgs was used for non-food lab experiments and disposed of.

- 12kgs was donated to Palmerston North Girls High School. The remaining product (in pre-made sachet mixes) has been removed from the school and is now stored on site at the FRDC awaiting disposal.
- 1.6kgs is on hold at FRDC awaiting confirmation of disposal.
- 3.4825kg was used to make yoghurts and yoghurt milks between September 2012 and June 2013 and has been consumed by Fonterra staff or disposed of. Yoghurt and yoghurt milk are manufactured using pasteurised milk. Germination and outgrowth of spores is controlled through fermentative acidification that produces a rapid pH drop below the levels that permit outgrowth and toxin production by *C. botulinum*. Most of the tasting happened during September 2012-March 2013. No incidents of illness have been reported since and MPI considers that the risk of developing botulism as the result of ingestion of spores over 3 months ago to be negligible. The most recent tasting occurred on 14 June 2013. MPI considers that the risk of developing botulism for this group is considered very low providing none of the consumers have underlying conditions that might increase the risk. For consumers with some abnormalities of the gastrointestinal tract the risk is considered low given that consumption happened 2 months ago.
- A further 0.1425kg was used in a bakery lab to manufacture confectionery (high whey nougat) bars. This went into a 2.002kg batch which resulted in two batches of 173 bars (110 aerated bars and 63 non-aerated). Of these:
 - 21 bars (14 aerated and 7 non-aerated) were exported to Fonterra in USA in February of this year (as per export docs arrival 25/2/13) as customer samples. Fonterra USA sampled 8 bars with 2 customers in February and March. Each bar was shared among several adults, hence only a small piece consumed by each person. All remaining 13 bars are with Fonterra Staff for disposal in USA.
 - 104 bars are still on site in Palmerston North waiting for disposal.
 - 40 bars were sent for various lab tests; and
 - 8 were consumed on site by staff with no ill health effects reported.

The confectionery has been deemed by MPI to be low risk because:

- Despite the relatively high percentage of WPC80 as an ingredient (7%), the bar has low water activity ($a_w < 0.65$) and glucose syrup concentration (33.26% w/w) which means that the germination, growth and toxin production by *C. botulinum* will not occur.
- the intended consumer group is healthy adults.
- 5 months have passed since possible consumption with no advised ill health.

Of the remaining WPC80 product, it is believed that:

- an undetermined amount (around 3 kgs) was thrown into the site skip bin and taken to land fill after receipt of a new batch of WPC80 on 11/6/2013.
- the remaining few kilos were probably used in non-food experimental lab work around site and disposed of. As a precaution, a recall of all WPC80 from FDRC labs was undertaken.

3.2 BULK WPC80 EXPORTED FROM FONTERRA WAITOA

WPC80 arising from JW17 and JW22 at Hautapu was exported directly and indirectly into export markets.

Some WPC80 was sent to Vitaco Health (NZ) Limited (Vitaco) (see 3.2.1).

Some WPC80 was used as an ingredient in other products at Waitoa then transferred to Fonterra Canpac for packing into Abbott's products or sent to Fonterra Australia who exported nutritional powder, including to New Zealand (Nutricia).

3.2.1 Vitaco Sports Drink

Vitaco received 1.4 tonnes of potentially contaminated WPC80 from Waitoa. Vitaco used the WPC80 to make a dry powder blend called 'UHT Blend' which was then exported to Australia. The products manufactured are UHT, dairy based protein drinks which are sold in both Australia and New Zealand.

MPI completed a safety assessment and concluded that, on the basis of the very intense heat treatment used in the production of the Vitaco product, along with the knowledge of the total number of SRC at the start of the process, MPI is confident that the manufactured product poses no risk to public health.

Verification of processing records by Australian authorities confirmed that the affected products received treatment at greater temperatures than that internationally accepted as sufficient to reduce levels of *C. botulinum* spores.

3.2.2 Hangzhou Wahaha Health Food Co. Ltd. China

14.475 metric tonnes of potentially affected WPC80 (579x25kg bags) from Hautapu batches JW17 and JW22 were directly exported from Fonterra to China for use in yoghurt product as part of three larger consignments (totalling 239.725 tonnes on MPI export certificates NZL2012/FONT4/53731, /85879, and /100033). These consignments arrived in China in August and December 2012 and in January 2013.

The Chinese Competent Authority was notified by MPI on 5 August 2013 of these three export certificates containing potentially affected product. MPI has conducted a safety assessment based on information provided by the importer and determined that the final product will have been heat treated and be of sufficient pH to mitigate any risk of botulism.

3.2.3 Shanghai Sugar Cigarette & Wine (Group) Co. Ltd. (Coca Cola), China

4.8 metric tonnes of potentially affected WPC80 (192x25kg bags) from Hautapu batches JW17 were exported directly to China for use in juice product as part of one larger consignment (totalling 19.275 tonnes on MPI export certificate NZL2012/FONT4/87923).

This consignment arrived in China in December 2012.

The Chinese Competent Authority was notified by MPI on 5 August 2013 of the export certificates containing potentially affected product.

MPI has conducted a safety assessment based on information provided by the importer and determined that the final product will have been heat treated and of sufficient pH to mitigate risk of botulism to the expected consumer, which is the general population.

3.3 "ABBOTT" BRAND PRODUCT EXPORTED BY FONTERRA (EX CANPAC)

Transfer of WPC80 JW17 to Fonterra Waitoa and then to Fonterra Canpac resulted in Abbott product that was exported from New Zealand to Vietnam, China, Saudi Arabia and the Philippines.

The process flow was verified by the Risk Management Plan verifiers (AsureQuality Limited, AQ) and audited by MPI SAT. This verification and audit was used to validate the process flow diagram provided by Fonterra (refer appendix 4).

Export Certificate Numbers relating to potentially affected products from this process are (refer to Appendix 6.5 for fuller details):

Vietnam:	China	Saudi Arabia	Philippines
NZL2013/FONT4/49325, NZL2013/FONT4/49289, NZL2013/FONT4/49345, NZL2013/FONT4/49353, NZL2013/FONT4/49283, NZL2013/FONT4/49287.	NZL2013/FONT4/44731, NZL2013/FONT4/45279	NZL2013/FONT4/41269, NZL2013/FONT4/46625	NZL2013/FONT4/47171, NZL2013/FONT4/39333

Affected products in these consignments were derived from potentially directly or indirectly affected ingredients FX 22C, FX23A, FX22B, FX23B and FX23C which in turn provided ingredient to cyphers IX24, IX25, IX26, IX27, IX28, IX29, IX30 and JX02.

Affected products were also derived from non-affected ingredients GX9, GX10, GX11 and GX14, but produced on a line following the potentially directly or indirectly affected ingredients cyphers IX18, IX30, JX01, JX02 and JX12.

Verification of the process flow categorised the IX and JX cyphers as being directly affected with JW17, or potentially affected by indirect contact.

All exports of potentially affected products have been captured in the MPI e-cert system and trace back and trace forward has been based on the information contained in the individual certificates to the importing country. In addition to the known certificates above, all health certificates back to May 2012 were checked to confirm for each of the identified countries, whether any other certificates contained the known affected cyphers. Where these were found MPI confirmed that the products on these certificates were from non-affected ingredients.

Verification has focused on a records reconciliation linking ingredients and source material to product cyphers recorded on export certificates to confirm:

- affected versus non-affected products; and
- directly or indirectly affected products.

This has entailed examination of Fonterra processing records with particular focus on:

- Job number and batch number identification for each job produced by Fonterra and linking this to each product on each of the examined certificates.
- Source product identification.
- Linking Fonterra Canpac (finished product) cyphers to multiple source material.
- Fonterra seals recorded on export certificates and linking these to Fonterra records of seals on implicated products.
- Confirming package totals and weights.
- Categorising the potential risk contained in finished products.

All exports of the potentially affected product have been under the Abbott brand and data has been reconciled with information supplied independently by Abbott. Abbott representatives have agreed with the final reconciliation for affected and non-affected products and risk classification of all certified products.

MPI notified the Competent Authorities of the Philippines, Vietnam, Saudi Arabia and China by 9 August, of updated information, including separation of affected versus non-affected product and risk categorisation (direct versus indirect), to the original information provided on the affected consignments.

Reconciling the certification and Abbott data with the information supplied in the basic process flow diagram identified significant differences in the total amount (cartons and tonnage) of product deemed affected by MPI as a result of the initial investigation. The reason for this is that a number of individual products are contained in each certificate, and although these products may have the same product cypher (e.g. IX 19) this does not mean that they have been produced using the same ingredient. In other words, a single certificate may have a number of products with the same product cypher but the individual products may be either affected or unaffected, depending on the ingredient batch used to produce them.

Job numbers and batch numbers are unique for a single production job by Fonterra. The batch numbers are supplied by Abbott Laboratories. The batch numbers are on each can or sachet of final product, so are a key identification feature. The batch numbers are not on MPI health certificates. MPI health certificates often included several parts of a single job. The whole job was often over several certificates. Nevertheless, MPI was able to link a series of identifiers to reconcile individual products identified by a cypher over multiple certificates with Fonterra and Abbott records.

3.4 AFFECTED PRODUCTS EXPORTED FROM FONTERRA AUSTRALIA

3.4.1 Movement of Affected Products To and From Fonterra Australia

Bulk affected WPC80 from Hautapu was exported to the Fonterra site in Australia for further processing into various Danone specifications.

Bulk ingredient powder manufactured to Danone specifications was exported from Australia, including to New Zealand. Australian Authorities advise MPI that all potentially affected product processed in Australia has been identified and traced back. In the case of exports to 3rd markets, Australian authorities advise they have informed competent authorities in those countries where potentially affected product has been sent. MPI has a high level of confidence that potentially affected products processed in Australia have been identified and managed appropriately.

An MPI auditor was sent to Australia on 6/08/13 to observe the trace back of Fonterra Australia affected nutritional powder. The MPI Auditor identified affected dairy product/material that had been exported to New Zealand.

Fonterra Australia changed its computer software for its electronic records management system during the time period of interest in this investigation. The changeover process

resulted in a brief period of time where some details were recorded incorrectly during the period of interest. The discrepancies associated with this have now been resolved, but during tracing, resulted in difficulties reconciling movements from Fonterra Australia to Danone and Nutricia. For example, on 17 August, Fonterra provided new information in relation to additional potentially affected product which they observed was a result of the system changeover. In conjunction with DAFF, MPI was able to ascertain that some of this product had been intended for the New Zealand market by way of Nutricia (but was all still within Fonterra's and Nutricia's control and also within the date range of the two product lines currently subject to a voluntary product recall), whilst other product was destined for export from Australia. In all cases, we understand from DAFF and Danone that such exports were either already the subject of product recalls and/or had been manufactured in such a way as to pose a negligible food safety risk.

3.4.2 Movement of affected Products To and From Nutricia

Bulk base powder was exported from Fonterra Australia to Nutricia in New Zealand for processing into final consumer products. This product was sent in several consignments from 11/4/13 to 1/8/13 (departure dates from Australia).

In New Zealand the potentially affected base powder was used to manufacture a range of infant formula, follow on formula and growing up milk products. This was done at:

- Nutricia's Auckland premises between 21/5/13 and 30/7/13
- Dairy Blenders Ltd between 19/6/13 and 30/7/13, and
- Dairy Goat Cooperative (Dairy Goat) between 2/7/13 and 2/8/13.

The latter two premises are located in Hamilton and processed formula on behalf of Nutricia.

Reconciliation of the product sent from Australia and delivered to Nutricia (some of which was contract packed for Nutricia by Dairy Blenders/Dairy Goat) has been undertaken by AsureQuality in association with MPI.

A number of storage premises and transport companies were used in the transfer of the product from the point of arrival in New Zealand to the processing premises.

MPI began verifying and detaining product believed to be affected on Saturday 3 August at Auckland MainFreight, followed by verification of product at Mondiale and other stores on Sunday 4 August.

AsureQuality (AQ) and MPI verifiers went to Nutricia in Auckland on Sunday 4 August to start tracing the Fonterra Australia product backwards and forwards. More AQ verifiers were sent to Nutricia to assist in subsequent weeks in order to work through the relevant records.

3.4.3 MPI-Controlled Exports from Nutricia

Product was distributed from Nutricia during the months from May to July 2013 to several destinations including Australia, China and Hong Kong, and also within New Zealand.

The exported product was quickly traced and located from export certificates (for China and Hong Kong) and from sales and shipping documents for Australia. MPI understands that the product in China and Hong Kong was able to be put on hold by Nutricia/Danone at their customers' warehouses.

The product in Australia had only just arrived and was put on hold through communication between MPI, Australian authorities and Danone.

Other product in New Zealand made for these same markets was either in the process of being shipped or was being consolidated for shipping. It was possible to stop all this product from leaving the country and this has been reconciled into various stores in Auckland under the control of MPI.

The e-cert database for all product exported by Nutricia with official assurances over the previous 6 months was searched. The certificates were checked for the presence of potentially affected batches of product.

All information was provided to MPI to liaise with exporters and Competent Authorities in destination markets.

3.4.4 New Zealand Distribution by Nutricia

Three batches of potentially affected product were distributed in New Zealand (all Nutricia brand, although some was processed by Dairy Goat Cooperative on Nutricia's behalf) to other trading companies and supermarkets widely distributed throughout New Zealand. A proportion of this product was on shop shelves and had been purchased by consumers. On 3 August a voluntary New Zealand recall was initiated by Nutricia for this product:

- *Nutricia Karicare Stage 1 infant formula* (0-6 months) and
- *Nutricia Karicare Gold+ Stage 2 follow on formula* (from 6 months).

On 12 August 2013 this recall was reduced to products with a production date of 21 May 2013 to 2 August 2013 inclusive.

Recognised Agencies verified the security of all products on hold and reported regularly to the MPI Operations team. Traceback of product intended for the domestic market concentrated on identifying all affected batches, putting them on hold, verifying their locations, and ensuring that they were being appropriately controlled by the relevant operators. Most affected product intended for the New Zealand market is 'on hold' in stores verified by recognised agencies.

The MPI Acting Director-General formally issued public statements under the Animal Products Act 1999 and the Food Act 1981 notifying that certain named infant formula products sold in New Zealand should not be consumed. A cautionary approach was taken, pending the receipt of further, updated information.

MPI stopped issuing export certification for any potential at-risk products. It also issued legal Notices of Direction pursuant to section 81(2) of the Animal Products Act 1999 to New Zealand exporters and businesses. These Notices prohibit them from exporting potentially affected products.

3.4.5 Tracing of product that has left New Zealand by uncertified or unofficial channels

Some of the New Zealand distributed product was also purchased by small exporters for sale to Hong Kong without certification (but legal export from New Zealand). The known exporters involved in this trade have been contacted by MPI and are in the process of trying to arrange for return of the product where possible.

Where no official assurances were used, MPI sought information from Nutricia's records and their customer records. Supply chains were up to three companies long within New Zealand once product left Nutricia. Product tracing has identified that there were two main streams through which product has been exported to Hong Kong: through Gilmours³ to third party registered dairy exporters, and through other New Zealand retail outlets (e.g. supermarkets) supplying registered dairy exporters, as below:

- Gilmours North Shore,
- Gilmours Henderson,
- Gilmours Mt Roskill,
- Gilmours Panmure,
- Gilmours Manukau,
- Gilmours Hamilton,
- Gilmours Tauranga,
- Gilmours Rotorua,
- Countdown Auckland City,
- Countdown Mt Wellington,
- Countdown Three Kings,
- Waysoft,
- Fresha, and
- Upper Hutt PaknSave.

Waysoft, a retailer and online seller of baby products and outlet for Gilmours products, was supplied with 41040 units (cans) of the Karicare Follow-On formula (batch D3183). Waysoft is not a dairy exporter but supplied product to nine dairy export companies who sell to Hong Kong and provide internet trade. Of those nine exporters linked to Waysoft, only two confirmed with MPI they had product for Hong Kong.

Nine companies were identified as obtaining potentially affected product from Gilmours or Countdown Supermarkets (in one case both) with the intention of exporting, or in some cases already having exported, to Hong Kong.

Six exporters had product retained in warehouses around Auckland prior to despatch. There are 36,474 units Karicare Gold +2 follow on formula (Batch D3183) intended for export that are currently detained/retained in six warehouses around Auckland.

MPI was able to confirm with three exporters that product had been despatched, so notified the Hong Kong authorities of the following exports:

Exporter	Freight , vessel and ETA	Product amount	Product description	Product batch no.	Consignee
Buy By You	Air, 29 Jul 2013	1080 units/cans (180 cartons)	Karicare gold+2 900g	D3183	Pok Shing Ying Ying

³ Gilmours Wholesale Food and Beverage is a New Zealand wholesaler operating in the upper North Island who also operates an online store and cash and carry locations (separate to supermarkets it supplies). The Gilmour brand is owned by Foodstuffs NZ Ltd.

Ltd.					Logistics Limited
Dairy NZ International	Sea, MS Calidris (two containers ECMU 4562765 and TRLU 489221), 13 Aug 2013	7092 units/cans (1182 cartons)	Karicare Gold+ Stage 2 Follow On Formula	D3183	Fortune Leader International
GNGreenvision	Sea, vessel unknown, June or July 2013	1260 units/cans	Karicare Gold+ Stage 2 Follow On Formula	D3183	Long Rise Group Limited
	Sea, MS Calidris (one container CMAU0416100), 13 Aug 2013	1260 units/cans	Karicare Gold+ Stage 2 Follow On Formula	D3183	Long Rise Group Limited

Information from New Zealand Customs Service indicates product may also have been supplied to Fiji, Samoa, Tonga and Vanuatu. Competent authorities of these countries have been notified.

Notices of Direction prohibiting export of Nutricia Karicare Stage 1 infant formula (0-6 months) and Nutricia Karicare Gold+ Stage 2 follow on formula (from 6 months) with production dates between 21 May 2013 and 2 August 2013 (inclusive) have been issued to Nutricia and to numerous smaller exporters.

3.5 STOCKFOOD

3.5.1 NZAgbiz stockfood

During the manufacture of WPC80, base powders and blended powders, end-of-run product and other by-products are produced. These are known as waste or loss streams and are diverted to animal feed (stockfood). Loss streams from Fonterra Hautapu, Waitoa and Canpac that may contain potentially affected product were sent to NZAgbiz for selling as stockfood. Location of this product has been verified by MPI and is on hold. A small amount has been sold domestically and consumed by stock in New Zealand.

Loss product was received into NZAgbiz (Waharoa, with some product moved to their store in Temuka) where the decision was made to either further process or blend through the Fonterra Animal Nutrition plant or to sell as received as stock feed. Product that is sent to the Animal Nutrition plant may be exported, or is sent back to NZAgbiz for distribution into the domestic market. In this case, none of the potentially affected product identified has been exported.

On site verification by AQ auditors at NZAgbiz, Fonterra Animal Nutrition and Mainfreight depot in Hamilton indicated that, with the exception of four issues which required further verification, the trace back procedures carried out by Fonterra and NZAgbiz had identified all stock feed which had been affected by the contaminated WPC80. The four outstanding issues were all subsequently closed. A separate site visit was carried out by MPI at the Temuka store and all affected feed still in store had been traced and identified. At all facilities the stock feed had been put on electronic hold, physically identified and was in the process of being isolated within the stores as part of a trade recall by NZAgBiz.

A final reconciliation between the weight and product cyphers in store records with the Fonterra WPC80 product flow diagram is underway.

On the basis of the information received all stock feed derived from the affected WPC80 has been accounted for and is either “On Hold” and separated in stores or has been sold in New Zealand and most likely consumed. There have been no reported cases of animal botulism as a result of any such consumption.

3.5.2 Australian stock food company

On 13 August Fonterra notified MPI that affected WPC80 had been sold to an Australian stock food company by Fonterra Australia. This company exported 100 metric tonnes of stock feed containing this WPC80 to Farmlands Co-operative Society Limited (Farmlands) in New Zealand.

Farmlands supplied inventory records tracing the majority of this product. Unsold product has been placed on hold at CRT stores. Of the 100t imported only 318kg entered the market. The remaining product has been identified and isolated until direction from MPI as to its suitability for sale.

MPI completed a safety assessment for Calf Milk Replacer manufactured by an Australian stock food company and imported by Farmlands. Feed includes <3% of potentially contaminated WPC80.

The suitability for sale on domestic market was assessed and it was determined that the likelihood of a disease outbreak occurring from consumption is extremely low and therefore feed would be considered fit for purpose and could be sold on the domestic market for its intended purpose.

3.6 DIALOGUE WITH OVERSEAS REGULATORS

MPI, together with the Ministry of Foreign Affairs and Trade, has liaised closely with Competent Authorities in countries where affected product has been sent from New Zealand. In addition, MPI has notified all Competent Authorities, via the World Health Organization’s INFOSAN network, of the potential contamination incident. Because some affected products were also exported from Australia, MPI has coordinated closely with Australian Regulators on tracing and verification and to ensure all affected markets received timely information. Where appropriate, regulators offshore have coordinated with MPI on instigating product recalls and tracing of potentially affected products.

4 Management of Potentially Affected Product

Advice on returning recalled product is being communicated to consumers, retailers, wholesalers and exporters by MPI and Nutricia. MPI has asked that Nutricia centralise returned recalled product at one site. This facilitates verification of interim storage and, ultimately, disposal of affected product. Nutricia have agreed, and the centralisation is occurring at Freight Management Logistics, 2 Percival Gull Place, Auckland Airport.

MPI’s Technical Advisory Group has advised that burial at a secure landfill is sufficient. Such sites prevent scavenging and ensure that product is eventually buried. Disposal methods

that result in airborne dispersal of potentially contaminated formula can constitute a health hazard so must be avoided.

When Nutricia wishes to dispose of consolidated stock it will work closely with MPI to ensure that necessary authorisations for product movement are in place and disposal arrangements and confirmation can be verified.

MPI has also provided advice, where requested, to overseas authorities on disposal. In many cases, the New Zealand exporter has agreed to return any potentially affected products to New Zealand for disposal.

5 Next Steps / Recommendations

All New Zealand dairy processors must operate under risk management programmes registered by MPI and which are independently verified. MPI has initiated a compliance investigation into the events that led to the inadequately sterilised equipment being used at Hautapu. On the basis of the results of this investigation, MPI may undertake further action, review current production standards, and take regulatory action if appropriate. MPI will also actively consider whether any other changes are required as a result of this event.

6 Appendices

The following appendices accompany this report and are available as a separate group of files in a zipped folder.

6.1 APPENDIX 1: FONTERRA'S AUG 5 HAUTAPU INVESTIGATION

A powerpoint presentation summarising Fonterra's investigation into the original contamination event is given in the attached file:

- WPC80 – Fonterra SRC Investigation – ppt report to MPI V2.ppt

6.2 APPENDIX 2: FULL INTELLIGENCE FLOWCHART FOR POTENTIALLY AFFECTED PRODUCTS

A flowchart showing the trace forward status of all potentially affected products is given in the following document:

- WPC 2013_Traceability Flowchart for Potentially Affected Products.pdf

6.3 APPENDIX 3: SPREADSHEET - NUTRICIA PRODUCTS

A spreadsheet showing current status of Nutricia branded products (including that produced by Dairy Goat) is available.

- WPC 2013_Summary Nutricia Affected FG Batches.xlsx

6.4 APPENDIX 4: WAITOA / CANPAC PROCESS FLOW

A diagram showing the flow of affected products through Fonterra Waitoa and Fonterra Canpac for cypher JW17 is attached below. For other cyphers please refer to the diagram in Appendix 2

- Fonterra Waitoa Canpac Process Flow.pdf

6.5 APPENDIX 5: SPREADSHEET - MPI-CONTROLLED EXPORT PRODUCTS

A spreadsheet showing the current status of products that were subject to MPI certified export (including Abbotts, and those that went to the Chinese and Australian markets) is attached.

- WPC 2013_Ops_Fonterra MPI Certified Exports.xlsx



WPC80 SRC Investigation

Briefing Pack

05 August 2013

Confidential to Fonterra Co-operative Group



Agenda

1. Why the products were reworked at the Hautapu Whey Plant
2. Source of the SRC contamination
 - SRC Results
 - Hautapu Process flow
 - Root cause
 - Whey Plant Cleaning
 - Pasteurisation
3. Risk of Carryover

1. Why the products were reworked at the Hautapu Whey Plant

Original Manufacture

- On the 3rd February 2012 GW02 Material 104578, GW03 Material 104578 and GW03 Material 108638 were manufactured in the Hautapu Whey Plant (1239). A potential foreign matter event occurred during the manufacture of this product. An exception report (no 562) was raised for this event on 03/02/2012 08:49
- A Product Disposition request (PD2550) for this product was sent to and approved by the Recognised Agency (RA) for Wet Rework at Hautapu Factory 1239. It required product to be filtered, evaporated and dried.

Reworked Product

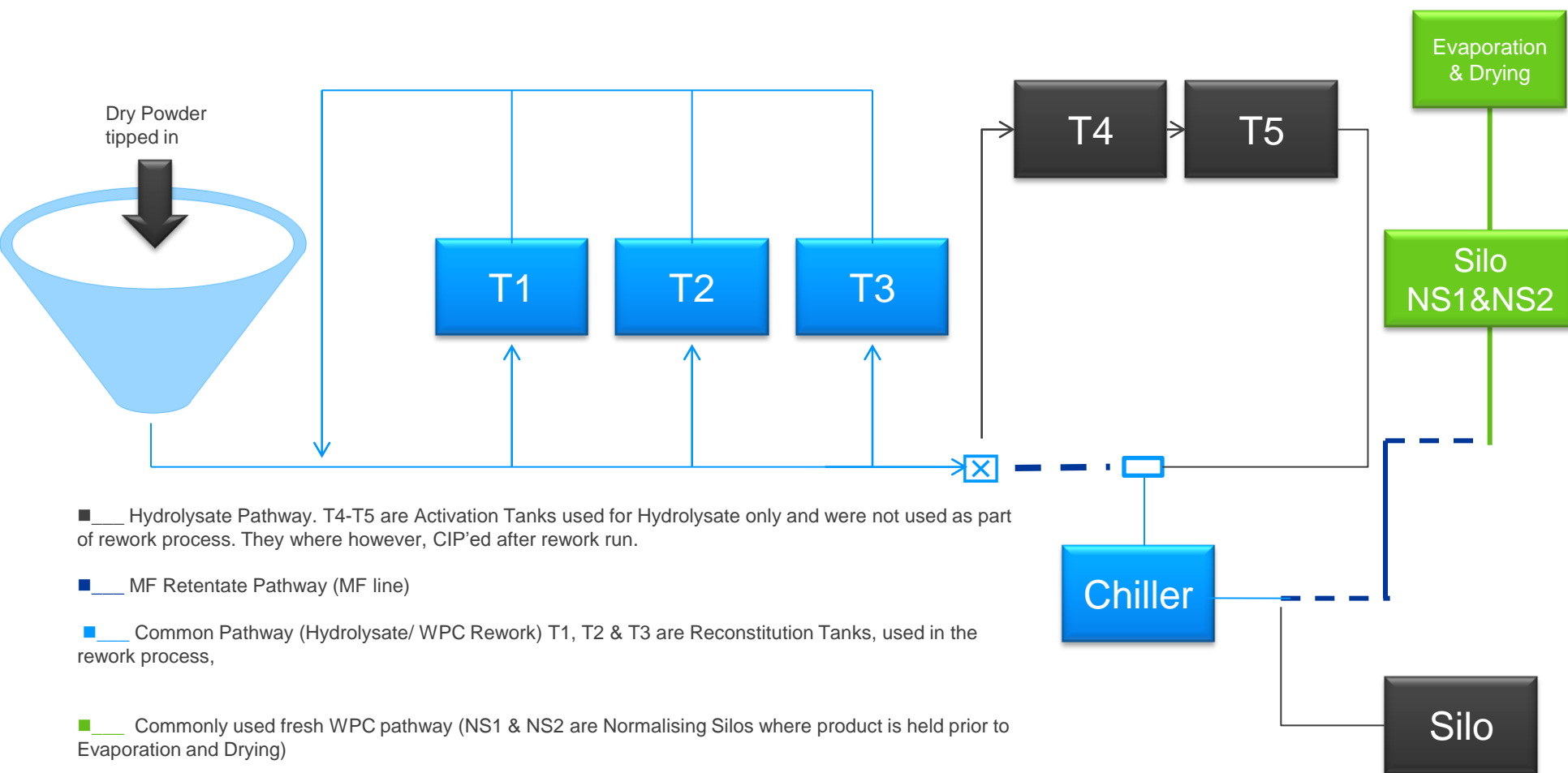
In May 2012, Rework of this product took place in accordance with the Product Disposition requirements. The reworked product was packed out as JW17, JW18 and JW22.

2. Source of the SRC contamination

Testing results show low SRC levels pre-rework, and escalated SRC levels post re-work.

Original Manufacture			Re-work Output		
Product	Cypher	SRC cfu/g *(Spores)	Material	Cypher	SRC cfu/g *(Spores)
Cheese Whey	GW02 C1080- C1092	<1	104579 3925 WPC 80	JW17	6700
		<1			8200
		7			7200
		4			
		5			
Cheese Whey	GW03 C1093- C1099	9	104579 3925 WPC 80	JW18	700
		5			800
		6			400
		13			
		11			
Rennet Casein Whey	GW03 R0865 – R0877 726 bags	4	104589 Rennet 4721	JW22	110
		3			220
		1			200
		2			180
		3			210

Detail Process - WPC Rework and Hydrolysate



SILO - Is a Hydrolysate storage silo, not used in rework process.

Photos of Hautapu Process Equipment



Tip Rework Powder



Reconstitute Powder



Flexi Hose transfer to bypass tank
enabling direct transfer to chiller

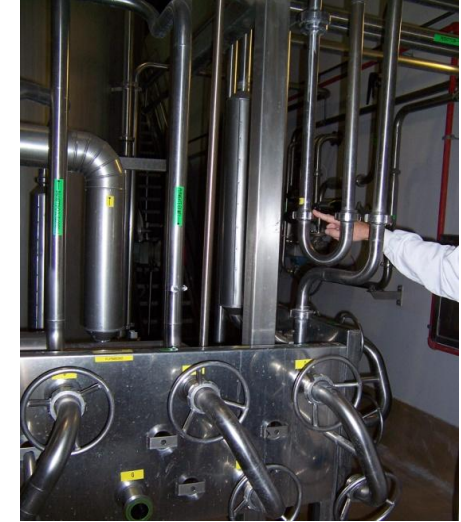
Photos of Hautapu Process Equipment



Hydrolysate Line Chiller
Rapid cooling
Product Temp $<10^{\circ}\text{C}$



Flexihose connected
for transfer from chiller
to MF Line



Flexihose connected for
transfer from MF Line to
NS Silos

Root cause explanation

- As per process flow, the rework was completed using manufacturing equipment common to the hydrolysate and fresh WPC manufacturing processes, with the exception of:
 - Food grade flexi-hoses:
 - Recon tank flowplate to chiller
 - Ex-chiller to the MF line
 - By-pass the plate heat exchanger on the MF line
 - MF line (MF Line is the Microfiltration line (also known as SCUF Feedline) and NS Silos are Normalising Silos)
- Immediately prior to and following manufacture of cyphers JW17, JW18 and JW22, batches of hydrolysate were also manufactured using common manufacturing equipment. Results of these batches are all **<25cfu/g for SRC** (see following slide).
 - This confirms root cause that high SRC's are from the either flexi-hoses, MF line or NS Silos (these are the only pieces of equipment that are used in the re-work process but not the hydrolysate process)
 - NS Silos are commonly used in WPC manufacture for retentate storage, and is frequently CIP'ed. It is not expected that the high SRC's originated from these silos.

SRC testing results around the time of manufacture of impacted WPC80

Date	Event	SRC Results (cfu/g)	Comments
16 May 2012	Protein Hydrolysate manufactured	0	
17 May 2012	Manufacture of JW17 104579 using rework from 104578 GW02	6700 8200 7200	Used in manufacture of product at Waitoa
18 May 2012	Manufacture of JW18 104579 using rework from 104578 GW0, units C1093-C1099	700 800 400	Not utilised at Waitoa or Canpac
18 May 2012	Protein Hydrolysate manufactured	0	
19 May 2012	Protein Hydrolysate manufactured	9	
21 May 2012	Protein Hydrolysate manufactured	2	
22 May 2012	Protein Hydrolysate manufactured	1	
22 May 2012	Manufacture of JW22 104589 Rennet Casein Whey using rework from 104578 GW03, units R0865 – R0877	110 220 200 180 210	Not utilised at Waitoa or Canpac
23 May 2012	Protein Hydrolysate manufactured	0	
24 May 2012	END OF SEASON		

Hautapu Whey Plant Cleaning

- The pipework and flexihose received an industry standard, caustic / Oxonia CIP cycle 5 days prior to JW17 rework and again immediately prior to use.
 - Each CIP was a single cycle 70°C for 40 mins – pH>11, 0.7% Caustic
 - Sanitising cycle - Oxonia active TM 100ppm in potable water at ambient temperature.
- All plant (lines, hoses, tanks) were then subject to a further CIP cycle prior to JW18 and JW22 cyphers. At the end of the campaign the CIP cycles were repeated.
- After the pre-campaign CIPs a number of adenosine triphosphate (ATP) swabs were taken at key points along the transfer process, to give an indication of general cleanliness. These returned acceptable results however the ATP test is not effective for the detection of spores.

Why didn't the CIP prior to JW17 Eliminate SRC's

- The initial CIPs were not sufficient to eliminate deposits that had built up in the re-work lines which had not been used for years
- SRC results for JW17/JW18/22 show concurrent reductions of approximately 90% and 80% between runs. Hypothesis suggests breakdown of deposits throughout CIP and manufacture.

Pasteurisation

- The re-work process did not include a pasteurisation step because:
 - The ingredient cyphers GW02 and GW03 had received full pasteurisation as a standard part of fresh manufacture
 - It is not possible to heat treat to pasteurisation temperatures at Hautapu due to the protein content (protein starts to gel at 59 °C)

3. Risk of Carryover to other Hautapu Products

- Re-work pathway
 - The re-work process has not been utilized since the re-work of the JW17/18/22 product
- Hydrolysate pathway
 - Hydrolysate product has routine SRC testing
 - Results are all low before rework, during re-work and post re-work campaign, see results slide 9
- WPC pathway
 - JW22 was the last WPC cypher manufactured during the season.
 - The plant went through a full shut down and start up cleaning regime e.g.
 - Minimum of 3 full plant CIP's including lines, tanks, plant (minimum caustic CIP)
 - Full drier and bag house clean
 - Crack testing on drier
 - Bins intensive manually cleaned, bag house socks replaced

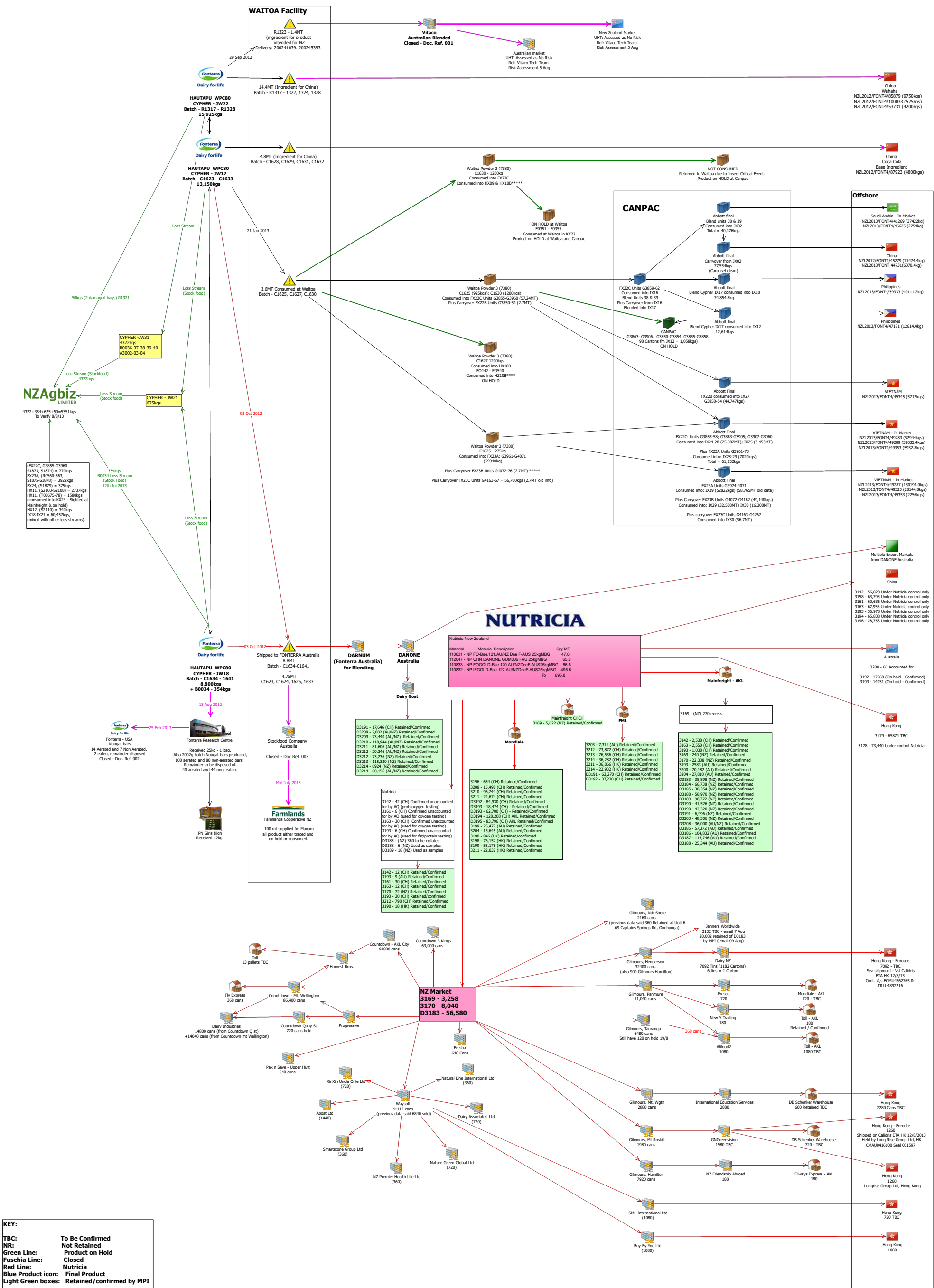
Hautapu WPC Contamination Risk Mitigation

- The three contaminated batches were the last batches of WPC80 manufactured at Hautapu prior to seven weeks of planned plant shutdown and maintenance
 - These three batches of WPC80 were manufactured using 100% WPC80 powder (either 100% WPC80 Cheese or 100% WPC80 Rennet)
- The WPC80 slurry was transferred from the point of reconstitution for further processing
- This transfer process utilised a length of pipework not used in the manufacturing process for converting fresh whey into WPC80 powder
- This transfer pipework has been identified as the source of contamination and is no longer in use and has been decommissioned
- In addition during the seven week shut and maintenance period extensive cleaning was completed including:
 - Liquid processing plant - a minimum of three cleaning cycles using a single use 70⁰C caustic wash followed by a liquid sanitiser (peroxide based)
 - Powder processing plant – manual bin cleaning, drier chamber wash, filter bag replacement/cleaning



WPC Response Commodity Flow - Final as at 26 Aug 2013, 0900 Hrs

National Intelligence Team, Pastoral House



Nutricia - Affected Product

Version12, 22 Aug-2013, 9.30am		Indicates under control either by MPI or AQ in NZ, or in market																						
	MATERIAL CODE	MATERIAL DESCRIPTION	Maunufacturing Premises	Intended Market	BATCH	TOTAL PALLETS Produced	Total Cans Produced	Total Metric tons	Material Used	Cypher Used	Fonterra Pallet Used	Total Exported	Total to Be exported	Total Sold	Stock on Hand in MF Auck	Stock on Hand in MF Christchurch	Stock on Hand in Mondiale	Stock on Hand in FML	Stock on Hand at Dairy Goat	Stock on Hand in Nutricia	unaccounted for cans	Location	Comments	
1	12931	Karicare Plus 2 Follow On Formula	Nutricia Mt Wellington	AU	3192	21	17,568	15.8	IF GOS Base 122 FO Base 121	1314064100	919120, 919175, 919199, 919205, 919229, 919250, 919267, 919274, 919281, 919298, 930460, 930477 22095778	17,568											With Nutricia (Danone) Australia - on hold Confirmed by MPI	
2	12931	Karicare Plus 2 Follow On Formula	Nutricia Mt Wellington	AU	3193	21	17,523	15.8	IF GOS Base 122 FO Base 121	163072	22079832, 22079833, 22079835, 22079837, 22079838, 220933369, 22095773, 22095785, 22095790	14,931			2,583					9			With Nutricia (Danone) Australia - on hold Confirmed by MPI	3 samples confirmed for extra EB testing. Verified by AQ
3	22961	Aptamil Gold Plus 2	Nutricia Mt Wellington	AU	3200	82	70,248	63.2	IF GOS Base 122	1314064100	919137, 919151				70,182								NZ Warehouse Confirmed by MPI 10 cans used for samples 66 cans removed by Nutricia	66 cans sitting in a production order 001004340 as "phantom cans" do not exist Batch file checked, shows total run of 70182 cans
4	11931	Karicare Plus 1 Infant Formula	Nutricia Mt Wellington	AU	3204	35	29,538	26.6	IF GOS Base 122	163077	22085925, 22085931, 22085933, 22085934, 22085935, 22085938, 22085939, 22086169				27,810					1,728		Mainfreight AKL Confirmed by MPI Nutricia	1728 Confirmed by AQ at Nutricia	
5	21961	Aptamil Gold Plus 1 Infant Formula	DGC	AU	D3185	64	57,372	51.6	IF GOS Base 122	163073 163075	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.				57,372								Returned to Mainfreight Confirmed by MPI	
6	21961	Aptamil Gold Plus 1 Infant Formula	DGC	AU	D3186	117	104,832	94.3	IF GOS Base 122	163073 163075	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.				104,832								Returned to Mainfreight Confirmed by MPI	
7	21961	Aptamil Gold Plus 1 Infant Formula	DGC	AU	D3187	129	115,746	104.2	IF GOS Base 122	163073 163075	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.				115,746								Returned to Mainfreight Confirmed by MPI	
8	21961	Aptamil Gold Plus 1 Infant Formula	DGC	AU	D3188	29	25,344	22.8	IF GOS Base 122	163073 163075	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.				25,344								Returned to Mainfreight Confirmed by MPI	
9	91960	China Karicare Gold Plus 1 Infant Formula	Nutricia Mt Wellington	CH	3142	69	59,412	53.5	IF GOS Base 122	163074	22080813, 22080814, 22080815, 22080816, 22080817, 22080818, 22080819, 22080820, 22080821, 22080822, 22080824, 22080825, 22080826, 22080827, 22080829, 22080830, 22080831, 22080832, 22081214, 22081215, 22081216, 22081217, 22081218, 22081220, 22081221, 22081222, 22081223, 22081233, 22081994, 22081996, 22081997, 22081998, 22081999, 22082000, 22082001, 22082002	51038kg 56820 units NZL2013/NUTRICIA01/46269	56,820	2,538			12	42	In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia 2538 at Mainfreight confirmed by MPI	42 cans unaccounted for. AQ comment: Oxygen testing cans - results being checked to confirm number of cans . Final confirmation done by AQ.				
10	91960	China Karicare Gold Plus 1 Infant Formula	Nutricia Mt Wellington	CH	3158	74	63,798	57.4	IF GOS Base 122	163074	22082417, 22082420, 22082422, 22082423, 22082424, 22082479, 22082481, 22082485, 22082486, 22082487, 22082491, 22082492, 22082493, 22082494, 22082495, 22082497, 22082498, 22082767, 22082768, 22082769, 22082770, 22082771, 22082772 22082005, 22082009, 22082010	57418.2kg 63798 units NZL2013/NUTRICIA01/49739		63,798						In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia				
11	91960	China Karicare Gold Plus 1 Infant Formula	Nutricia Mt Wellington	CH	3161	71	60,672	54.6	IF GOS Base 122	163073	22082109, 22082110, 22082112, 22082113, 22082117, 22082119, 22082120, 22082124, 22082126, 22082127, 22082128, 22082129, 22082130, 22082415, 22082416	54572.4kg 60636 units NZL2013/NUTRICIA01/51763		60,636				30	6	In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia	6 samples confirmed as used in oxygen testing. Verified by AQ.			
12	92960	China Karicare Gold Plus 2 Follow On Formula	Nutricia Mt Wellington	CH	3163	82	70,548	63.5	FO GOS Base 120	153076	22083122, 22083125, 22083233, 22083253,	61160.4kg 67956 units NZL2013/NUTRICIA01/48509		67,956	2,550				12	30	In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia 2550 at Mainfreight confirmed by MPI	42 cans requested for Oxygen testing cans - results being checked to confirm number of cans , 30 cans used Verified by AQ		
13	93960	China Karicare Gold Plus 3	Nutricia Mt Wellington	CH	3193	46	38,052	34.2	Nutribase 006	153066	22074801, 22074807	33282.2kg 36978 units NZL2013/NUTRICIA01/55575		36,978	1,038				30	6	In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia 1038 at Mainfreight confirmed by MPI	6 samples confirmed as used in fat/protein testing Verified by AQ		
14	93960	China Karicare Gold + 3	Nutricia Mt Wellington	CH	3194	77	65,838	59.3	Nutribase 006	153066	22074795, 22074805, 22074806, 22074808, 22074809, 22074810	59254.2kg 65838 units NZL2013/NUTRICIA01/54951		65,838							In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia			
15	93960	China Karicare Gold Plus 3	Nutricia Mt Wellington	CH	3196	35	29,412	26.5	Nutribase 006	153066	22074810	25882.2kg 28758 units NZL2103/NUTRICIA01/56251		28,758		654						In Shanghai 3PL Warehouse U1 Baby Shanghai Under supply chain control of Nutricia 654 at Mainfreight confirmed by MPI		
16	91960	China Karicare Gold Plus 1 Infant Formula	Nutricia Mt Wellington	CH	3208	11	15,498	13.9	IF GOS Base 122	163072	22079823, 22079824, 22079827, 22079828, 22089829, 22079834 22086168, 22086172, 22086176						15,498				In Mondiale Auckland reconciled in store by MPI			
17	91960	China Karicare Gold Plus 1 Infant Formula	Nutricia Mt Wellington	CH	3210	112	96,744	87.1	IF GOS Base 122	163072	22079826, 22079828, 22079834 22085925, 22085927, 22085928, 22085932, 22085936, 22085937, 22085940, 22085943, 22085947, 22085948, 22086167, 22086170, 22086173, 22086175, 22086180						96,744				In Mondiale Auckland reconciled in store by MPI			
18	91960	China Karicare Gold Plus 1 Infant Formula	Nutricia Mt Wellington	CH	3211	27	22,674	20.4	IF GOS Base 122	163077	22085949, 22085949, 22085950, 22085952, 22085954, 22086165, 22086166, 22086166, 22086171						22,674				In Mondiale Auckland reconciled in store by MPI			
19	92960	China Karicare Gold Plus 2 Follow On Formula	DGC	CH	D3191	93	81,174	73.1	FO GOS Base 120 FO Base 121	153077	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							63,528	17,646			In DG and FML	3 mixed pallets sorted with D3192 and D3191. FML count for D3191 is 63528 cans but not yet verified by VS. 17646 at DG according to AQ. Total 81174. 180 cans don't actually exist (according to SAP).	
20	92960	China Karicare Gold Plus 2 Follow On Formula	DGC	CH	D3192	136	121,902	109.7	FO GOS Base 120 FO Base 121	153077	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							84,930	37,230		258	In Mondiale and FML	Discrepancy of 258 likely due to FML doing full pallet counts where some pallets differ in small quantities.	
21	92960	China Karicare Gold Plus 2 Follow On Formula	DGC	CH	D3193	21	18,474	16.6	FO GOS Base 120	153076	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						18,474					In Mondiale Auckland reconciled in store by MPI		
22	93960	China Karicare Gold Plus 3	DGC	CH	D3193	70	62,700	56.4	Nutribase Gum 006	153066	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						62,700					In Mondiale Auckland reconciled in store by MPI		
23	93960	China Karicare Gold Plus 3	DGC	CH	D3194	143	128,208	115.4	Nutribase Gum 006	153066	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						128,208					In Mondiale Auckland reconciled in store by MPI		
24	93960	China Karicare Gold Plus 3	DGC	CH	D3195	94	83,796	75.4	Nutribase Gum 006	153066	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						83,796					In Mondiale Auckland reconciled in store by MPI		

Nutricia - Affected Product

25	83960	Cow & Gate Stage 3	Nutricia Mt Wellington	HK	3178	85	73,440	66.1	Nutribase Gum 006	153066	22074800	6988.4kg, 7776 units NZL2013/NUTRICIA01/50891 6988.4kg, 7776 units NZL2013/NUTRICIA01/51187 6988.4kg, 7776 units NZL2013/NUTRICIA01/51363 6988.4kg, 7776 units NZL2013/NUTRICIA01/51491 38102.4kg, 42,336 units NZL2013/NUTRICIA01/52379	73,440								Product in Hong Kong under control of Nutricia (Cow and Gate) or under recall	
26	83960	Cow & Gate Stage 3	Nutricia Mt Wellington	HK	3179	77	65,874	59.3	Nutribase Gum 006	153066	22074798, 22074800	59286.6kg 65874 units NZL2013/NUTRICIA01/52403	65,874							Product in Hong Kong under control of Nutricia (Cow and Gate) or under recall		
27	81960	Cow & Gate Stage 1	Nutricia Mt Wellington	HK	3198	89	76,152	68.5	IF GOS Base 122	163072	22079839, 22079840, 22079992, 22079994, 22079995					76,152				In Mondiale Auckland reconciled in store by MPI		
28	81960	Cow & Gate Stage 1	Nutricia Mt Wellington	HK	3199	62	53,178	47.9	IF GOS Base 122	163072	22079991, 22079993					53,178				In Mondiale Auckland reconciled in store by MPI		
29	11960	Karicare 1 Infant Formula	Nutricia Mt Wellington	NZ	3169	11	8,850	8.0	IF GOS Base 122	163072 163077	22079824, 22079827, 22079828, 22079829, 22079834, 22079836 22085949, 22085951, 22086164, 22086166		3,258	240	5,622					Distributed in NZ Market Subject to NZ recall Product in Mainfreight stores confirmed by MPI	NZ recall product all being collected and stored at FML AKL	
30	11960	Karicare 1 Infant Formula	Nutricia Mt Wellington	NZ	3170	36	30,378	27.3	IF GOS Base 122	163077	22085925, 22085931, 22085934, 22085935, 22085938, 22085946, 22085951, 22085952, 22085953, 22086164, 22086167, 22086169, 22086170, 22086174, 22086180		8,040	22,338						Distributed in NZ Market Subject to NZ recall Product in store confirmed by MPI 5/8/13	NZ recall product all being collected and stored at FML AKL	
31	17305	Karicare Gold Plus 2 Follow On Formula	DGC	NZ	D3183	107	95,838	86.3	FO GOS Base 120	153077	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.					56,580	38,898		360	56,580 cans distributed to Progressive Ent. Ltd. Foodstuffs and Waysoft Subject to NZ recall	NZ recall product all being collected and stored at FML AKL. Unaccounted 360 cans	
32	17305	Karicare Gold Plus 2 Follow On Formula	DGC	NZ	D3184	77	66,738	60.1	FO GOS Base 120	153077	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						66,738			Mainfreight AKL Confirmed by MPI		
33	17305	Karicare Gold Plus 2 Follow On Formula	DGC	NZ	D3185	34	30,354	27.3	FO GOS Base 120	153077	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						30,354			Mainfreight AKL Confirmed by MPI		
34	17300	Karicare Gold Plus 1 Infant Formula	DGC	NZ	D3188	57	50,976	45.9	IF GOS Base 122	163075, 163073	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						50,970		6	Mainfreight AKL Confirmed by MPI		
35	17300	Karicare Gold Plus 1 Infant Formula	DGC	NZ	D3189	110	98,790	88.9	IF GOS Base 122	163075, 163073	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						98,772		18	Mainfreight AKL Confirmed by MPI		
36	17300	Karicare Gold Plus 1 Infant Formula	DGC	NZ	D3190	47	41,526	37.4	IF GOS Base 122	163075 163073	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						41,526			Mainfreight AKL Confirmed by MPI		
37	12960	Karicare 2 Follow On Formula	DGC	NZ	D3190	49	43,320	39.0	FO GOS Base 120 FO Base 121	153077 163082	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						43,320			Mainfreight AKL Confirmed by MPI		
38	12960	Karicare 2 Follow On Formula	DGC	NZ	D3191	8	6,996	6.3	FO GOS Base 120 FO Base 121	153077 163082	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						6,996			Mainfreight AKL Confirmed by MPI		
39	12960	Karicare 2 Follow On Formula	DGC	NZ	D3203	54	48,306	43.5	FO GOS Base 120 FO Base 121	153076 163082 163083	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.						48,306			Mainfreight AKL Confirmed by MPI		
40	11931	Karicare Plus 1 Infant Formula	Nutricia Mt Wellington	AU	3203	9	7,311	6.6	IF GOS Base 122	163077	22095930, 22095931, 22095934, 22095935, 22095938, 22086169, 22086232						7,311			At FML Auckland Confirmed by MPI		
41	91960	China Karicare Gold Plus 2 Follow On Formula	Nutricia Mt Wellington	CH	3212	87	74,670	67.2	IF GOS Base 122 FOBase 121	163077	22086165, 22085953						73,872		798	At FML Auckland Confirmed by MPI		
42	91960	China Karicare Gold Plus 2 Follow On Formula	Nutricia Mt Wellington	CH	3213	85	76,536	68.9	IF GOS Base 122 FOBase 121	163077 163083	22086174 22093667						76,536			At FML Auckland Confirmed by MPI		
43	91960	China Karicare Gold Plus 2 Follow On Formula	Nutricia Mt Wellington	CH	3214	42	36,282	32.7	FO Base 121	163083	22093667						36,282			At FML Auckland Confirmed by MPI		
44	22961	Aptamil Gold Plus 2 Follow On Formula	DGC	AU/NZ	D3208	48	43,002	38.7	FO GOS Base 120	153076 153077 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.					36,000			7,002	At MF FF warehouse Confirmed by VS & AQ		
45	22961	Aptamil Gold Plus 2 Follow On Formula	DGC	AU/NZ	D3209	82	73,440	66.1	FO GOS Base 120	153076 153077 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							73,440		At DGC Confirmed by AQ		
46	22961	Aptamil Gold Plus 2	DGC	AU/NZ	D3210	133	118,944	107.0	FO GOS Base 120	153076, 153077, 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							118,944		At DGC Confirmed by AQ		
47	22961	Aptamil Gold Plus 2	DGC	AU/NZ	D3211	91	81,606	73.4	FO GOS Base 120	153076, 153077, 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							81,606		At DGC Confirmed by AQ		
48	22961	Aptamil Gold Plus 2	DGC	AU/NZ	D3212	34	29,346	26.4	FO GOS Base 120	153076, 153077, 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							29,346		At DGC Confirmed by AQ		
49	17305	Karicare Gold Plus 2	DGC	NZ	D3212	82	73,236	65.9	FO GOS Base 120	153076, 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							73,236		At DGC Confirmed by AQ		
50	17305	Karicare Gold Plus 2	DGC	NZ	D3213	129	115,320	103.8	FO GOS Base 120	153076, 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							115,320		At DGC Confirmed by AQ		
51	17305	Karicare Gold Plus 2 Follow On Formula	DGC	NZ	D3214	8	6,924	6.2	FO GOS Base 120	153076, 153078	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for each cypher used.							6,924		At DGC Confirmed by AQ		
52	21961	Aptamil Gold Plus 1 Infant Formula	DGC	AU/NZ	D3214	67	60,156	54.1	IF GOS Base 122	1,314,064,100	Traceability was based on the whole Cypher used because Dairy Goat does not have individual pallet records for							60,156		At DGC Confirmed by AQ		
53	83960	Cow & Gate Stage 3	Nutricia Mt Wellington	HK	3190	49	42,144	37.9	Nutribase Gum 006	153066	22074811	41,280					846		18	Some in Market HK Remainder confirmed by VS & AQ	Product confirmed by MPI as not affected	
54	22961	Aptamil Gold Plus 2 Follow On Formula	Nutricia Mt Wellington	AU	3199	31	26,472	23.8	FROM CARRY OVER RISK ASSESSMENT This product followed on from product 81960 (3199)which used pallets 22079991, 22079993							26,472				In Mondiale Auckland reconciled in store by MPI		
55	13931	Karicare Plus Toddler	Nutricia Mt Wellington	AU	3204	19	15,645	14.1	FROM CARRY OVER RISK ASSESSMENT This product followed on from product 11931 (3203) which used cypher 163077 and pallets 22095930, 22095931, 22095934, 22095935, 22095938, 22086165, 22086232							15,645				In Mondiale Auckland reconciled in store by MPI	AQ Comment: Nil in stock SAP shows 15,645 transported to Main Freight on 29/07/13	
56	82960	Cow and Gate Follow On	Nutricia Mt Wellington	HK	3211	70	59,898	53.9	FROM CARRY OVER RISK ASSESSMENT This product followed on from 91960 (3211) which used cypher 163077 and pallets 22085949, 22085950, 22085952, 22085954, 22086165, 22086166, 22086171							22,032	36,866			FML & Mondiale AKL Confirmed by MPI		
57	83960	Cow & Gate Stage 3	Nutricia Mt Wellington	HK	3214	27	22,932	20.6	FROM CARRY OVER RISK ASSESSMENT This product followed on from 92960 (3214) 22093667								22,932				FML AKL Confirmed by MPI	
			TOTAL			3655	3,211,653	2,890.5														

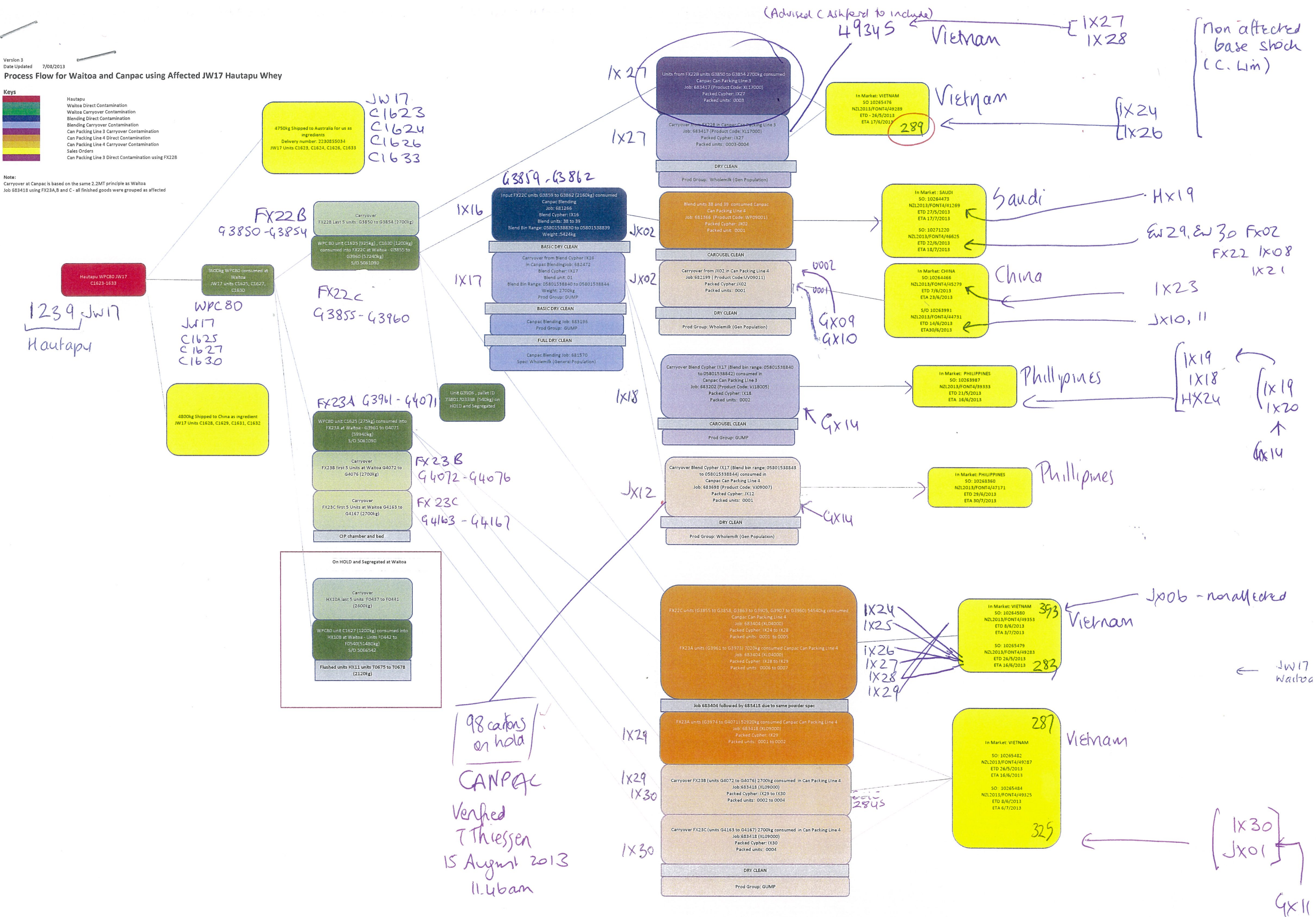
Process Flow for Waitoa and Canpac using Affected JW17 Hautapu Whey

Keys



Hautapu
Waitoa Direct Contamination
Waitoa Carryover Contamination
Blending Direct Contamination
Carryover Contamination
Can Packing Line 3 Carryover Contamination
Can Packing Line 4 Direct Contamination
Can Packing Line 4 Carryover Contamination
Sales Orders
Can Packing Line 3 Direct Contamination using FX22B

Note:
Carryover at Canpac is based on the same 2.2MT principle as Waitoa
Job 683418 using FX23A,B and C - all finished goods were grouped as affected



Red Affected

Black Not affected

Risk categ Categorises into direct and indirectly affected product.

Batch number is the identification on each final product eg can, sachet

Health	Country	Consignee	ETA	Product	Product description	Brand and F	Cypher
NZL2012/F0	China	HANGZH	16-Dec-12	4	Whey protein concentrate		JW22
NZL2012/F0	China	HANGZH	16-Dec-12	6	Whey protein concentrate		JW22
NZL2012/F0	China	HANGZH	16-Dec-12	1	Whey protein concentrate		FW30
NZL2012/F0	China	HANGZH	16-Dec-12	2	Whey protein concentrate		GW07
NZL2012/F0	China	HANGZH	16-Dec-12	3	Whey protein concentrate		GW07
NZL2012/F0	China	HANGZH	16-Dec-12	5	Whey protein concentrate		BW05
NZL2012/F0	China	HANGZH	16-Dec-12	7	Whey protein concentrate		BW05
NZL2012/F0	China	HANGZH	16-Dec-12	8	Whey protein concentrate		BW06
NZL2012/F0	China	HANGZH	16-Dec-12	9	Whey protein concentrate		BW06
NZL2012/F0	China	HANGZH	16-Dec-12	10	Whey protein concentrate		BW09
NZL2012/F0	China	SHANGH	23-Dec-12	7	Whey protein concentrate		JW17
NZL2012/F0	China	SHANGH	23-Dec-12	1	Whey protein concentrate		FW16
NZL2012/F0	China	SHANGH	23-Dec-12	2	Whey protein concentrate		FW20
NZL2012/F0	China	SHANGH	23-Dec-12	3	Whey protein concentrate		FW21
NZL2012/F0	China	SHANGH	23-Dec-12	4	Whey protein concentrate		HW20
NZL2012/F0	China	SHANGH	23-Dec-12	5	Whey protein concentrate		HW25
NZL2012/F0	China	SHANGH	23-Dec-12	6	Whey protein concentrate		IW07
NZL2012/F0	China	HANGZH	27-Jan-13	4	Whey protein concentrate		JW22
NZL2012/F0	China	HANGZH	27-Jan-13	1	Whey protein concentrate		BW09
NZL2012/F0	China	HANGZH	27-Jan-13	2	Whey protein concentrate		DW12
NZL2012/F0	China	HANGZH	27-Jan-13	3	Whey protein concentrate		DW15
NZL2012/F0	China	HANGZH	27-Jan-13	5	Whey protein concentrate		DW15
NZL2012/F0	China	HANGZH	27-Jan-13	6	Whey protein concentrate		DW17
NZL2012/F0	China	HANGZH	27-Jan-13	7	Whey protein concentrate		DW19
NZL2012/F0	China	HANGZH	27-Jan-13	8	Whey protein concentrate		DW22
NZL2012/F0	China	HANGZH	27-Jan-13	9	Whey protein concentrate		DW22
NZL2012/F0	China	HANGZH	27-Jan-13	10	Whey protein concentrate		DW26
NZL2012/F0	China	HANGZH	24-Aug-12	11	Whey protein concentrate		JW22
NZL2012/F0	China	HANGZH	24-Aug-12	1	Whey protein concentrate		DV09
NZL2012/F0	China	HANGZH	24-Aug-12	2	Whey protein concentrate		FW14
NZL2012/F0	China	HANGZH	24-Aug-12	3	Whey protein concentrate		FW26
NZL2012/F0	China	HANGZH	24-Aug-12	4	Whey protein concentrate		FW29
NZL2012/F0	China	HANGZH	24-Aug-12	5	Whey protein concentrate		FW30
NZL2012/F0	China	HANGZH	24-Aug-12	6	Whey protein concentrate		GW10
NZL2012/F0	China	HANGZH	24-Aug-12	7	Whey protein concentrate		GW13
NZL2012/F0	China	HANGZH	24-Aug-12	8	Whey protein concentrate		GW14
NZL2012/F0	China	HANGZH	24-Aug-12	9	Whey protein concentrate		GW17
NZL2012/F0	China	HANGZH	24-Aug-12	10	Whey protein concentrate		GW17
NZL2012/F0	China	HANGZH	24-Aug-12	12	Whey protein concentrate		GW13
NZL2012/F0	China	HANGZH	24-Aug-12	13	Whey protein concentrate		GW14
NZL2012/F0	China	HANGZH	24-Aug-12	14	Whey protein concentrate		FW30
NZL2012/F0	China	HANGZH	24-Aug-12	15	Whey protein concentrate		FW31
NZL2012/F0	China	HANGZH	24-Aug-12	16	Whey protein concentrate		GW10
No cert	Australia	Fonterra	6-Oct-12		Whey protein concentrate		JW17
No cert	Australia	Fonterra	6-Oct-12		Whey protein concentrate		JW18

Weight (kg)	No of cartons	Status	Categorisation	Seal
8350	334	Affected	Direct	D57063
1400	56	Affected	Direct	D57193
8400	336	Not affected	Not on the	D57066
5600	224	Not affected	Not on the	D57066
5400	216	Not affected	Not on the	D57063
12500	500	Not affected	Not on the	D57063
2800	112	Not affected	Not on the	D57064
11000	440	Not affected	Not on the	D57064
9800	392	Not affected	Not on the	D57061
4200	168	Not affected	Not on the	D57061
4800	192	Affected	Direct	D58022
800	32	Not affected	Not on the	D58022
475	19	Not affected	Not on the	D58022
950	38	Not affected	Not on the	D58022
275	11	Not affected	Not on the	D58022
1200	48	Not affected	Not on the	D58022
15575	623	Not affected	Not on the	D58022
525	21	Affected	Direct	D81140
4200	168	Not affected	Not on the	D81140
14525	581	Not affected	Not on the	D81140
5875	235	Not affected	Not on the	D81140
8400	336	Not affected	Not on the	D89082
16425	657	Not affected	Not on the	D89082
12350	494	Not affected	Not on the	D81132
12600	504	Not affected	Not on the	D81132
19550	782	Not affected	Not on the	D81133
5600	224	Not affected	Not on the	D81133
4200	168	Affected	Direct	D29789
6975	279	Not affected	Not on the	D29785
1400	56	Not affected	Not on the	D29785
1400	56	Not affected	Not on the	D29785
525	21	Not affected	Not on the	D29785
2800	112	Not affected	Not on the	D29785
5600	224	Not affected	Not on the	D29786
8400	336	Not affected	Not on the	D29786
8375	335	Not affected	Not on the	D29786
5075	203	Not affected	Not on the	D29788
9800	392	Not affected	Not on the	D29789
8925	357	Not affected	Not on the	D29787
4200	168	Not affected	Not on the	D29787
2400	96	Not affected	Not on the	D29784
675	27	Not affected	Not on the	D29784
9750	390	Not affected	Not on the	D29784
4750	190	Affected	Direct	
8775	541	Affected	Direct	

Affected product (directly or follow on or indirectly)

Health Certificate Number	Country	Abbott	Consignee	ETA	Net Weight (kgs)	No. of Carton
NZL2013/FONT4/47171	Philippines	Abbott	ABBOTT LABORATORIES	30-Jul-13	12614.4	1168
NZL2013/FONT4/39333	Philippines	Abbott	ABBOTT LABORATORIES	16-Jun-13	40111.2	3714
NZL2012/FONT4/85879	China		HANGZHOU WAHAHA HEALTH FOO	16-Dec-12	9750	390
NZL2012/FONT4/87923	China		SHANGHAI SUGAR CIGARETTE & W	23-Dec-12	4800	192
NZL2012/FONT4/100033	China		HANGZHOU WAHAHA HEALTH FOO	27-Jan-13	525	21
NZL2012/FONT4/53731	China		HANGZHOU WAHAHA HEALTH FOO	24-Aug-12	4200	168
NZL2013/FONT4/44731	China	Abbott	ABBOTT LABORATORIES TRADING	30-Jun-13	6070.4	563
NZL2013/FONT4/45279	China	Abbott	ABBOTT LABORATORIES TRADING	30-Jun-13	71474.4	6618
NZL2013/FONT4/41269	Saudia Arabia	Abbott	AL-KAMAL IMPORT OFFICE	17-Jul-13	37422	3465
NZL2013/FONT4/46625	Saudia Arabia	Abbott	AL-KAMAL IMPORT OFFICE	18-Jul-13	2754	255
N/A	Australia		Fonterra Australia PTY LTD	6-Oct-12	13525	731
NZL2013/FONT4/49325	Vietnam	Abbott	3A NUTRITION VIETNAM COMPANY	41458	28144.8	2606
NZL2013/FONT4/49289	Vietnam	Abbott	3A NUTRITION VIETNAM COMPANY	17-Jun-13	39035.4	3827
NZL2013/FONT4/49345	Vietnam	Abbott	3A NUTRITION VIETNAM COMPANY	3-Jul-13	5712	560
NZL2013/FONT4/49353	Vietnam	Abbott	3A NUTRITION VIETNAM COMPANY	3-Jul-13	8188.8	853
NZL2013/FONT4/49283	Vietnam	Abbott	3A NUTRITION VIETNAM COMPANY	17-Jun-13	52944	5515
NZL2013/FONT4/49287	Vietnam	Abbott	3A NUTRITION VIETNAM COMPANY	17-Jun-13	130194	12055
Total					467465.4	42701

NZL2013/FONT4/49325 Canpac																
Country	Consignee	ETA	Product	Product d	Brand and	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock	Line
Vietnam	3A NUTRIT	3-Jul-13	1	Formulat	Similac G	IX29	550.8	51	Affected	Direct	29350	683418-0001	2565G54119	29/ 04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	3-Jul-13	2	Formulat	Similac G	IX30	12150	1125	Affected	Follow on	29350	683418-0004	2567G54120	30/04/13 (IX30)	FX23C	4
Vietnam	3A NUTRIT	3-Jul-13	4	Formulat	Similac G	IX30	13068	1210	Affected	Follow on	29348	683418-0004	2567G54120	30/04/13 (IX30)	FX23C	4
Vietnam	3A NUTRIT	3-Jul-13	5	Formulat	Similac G	IX30	2376	220	Affected	Follow on	29347	683418-0004	2567G54120	30/04/13 (IX30)	FX23C	4
Vietnam	3A NUTRI	3-Jul-13	3	Formulat	Similac G	IX30	183.6	17	NOT AFFECTED	No risk - from non	29350	683418-0005	2676G54120	30/04/13 (IX30)	GX11	4
Vietnam	3A NUTRI	3-Jul-13	6	Formulat	Similac G	IX30	7128	660	NOT AFFECTED	No risk - from non	29347	683418-0005	2676G54120	30/04/13 (IX30)	GX11	4
Vietnam	3A NUTRI	3-Jul-13	7	Formulat	Similac G	JX01	3564	330	NOT AFFECTED	No risk - not notifie	29347	683418-0006 and 6	2676G54121 and 2	1/05/2013	GX11	4
Vietnam	3A NUTRI	3-Jul-13	8	Formulat	Similac G	JX01	12830	1188	NOT AFFECTED	No risk - not notifie	29342	683418-0006 and 6	2676G54121 and 2	1/05/2013	GX11	4
Vietnam	3A NUTRI	3-Jul-13	9	Formulat	Similac G	JX01	13068	1210	NOT AFFECTED	No risk - not notifie	29344	683418-0006 and 6	2676G54121 and 2	1/05/2013	GX11	4
							2728									
NZL2013/FONT4/49289 Canpac																
Country	Consignee	ETA	Product	Product d	Brand and	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock	Line
Vietnam	3A NUTRI	17-Jun-13	7	Formulat	Similac G	IX27	6905.4	677	Affected	Indirect	28355	683417-0003	25653G5311	27/04/13 (IX27)	FX22B	3
Vietnam	3A NUTRI	17-Jun-13	8	Formulat	Similac G	IX27	3855.6	378	Affected	Indirect	28355	683417-0004	2676G53117	27/04/13 (IX27)	FX22B	3
Vietnam	3A NUTRI	17-Jun-13	9	Formulat	Similac G	IX27	14137.2	1386	Affected	Indirect	28355	683417-0004	2676G53117	27/04/13 (IX27)	FX22B	3
Vietnam	3A NUTRI	17-Jun-13	10	Formulat	Similac G	IX27	14137.2	1386	Affected	Indirect	28355	683417-0004	2676G53117	27/04/13 (IX27)	FX22B	3
Vietnam	3A NUTRI	17-Jun-13	1	Formulat	Similac G	IX24	14137.2	1386	NOT AFFECTED	stock base powder	28347	vided, not included	vided, not included	24/04/13 (IX24)	Non-affected feedstc	
Vietnam	3A NUTRI	17-Jun-13	2	Formulat	Similac G	IX24	14137.2	1386	NOT AFFECTED	stock base powder	28348	vided, not included	vided, not included	24/04/13 (IX24)	Non-affected feedstc	
Vietnam	3A NUTRI	17-Jun-13	3	Formulat	Similac G	IX24	13729.2	1346	NOT AFFECTED	stock base powder	29349	vided, not included	vided, not included	24/04/13 (IX24)	Non-affected feedstc	
Vietnam	3A NUTRI	17-Jun-13	4	Formulat	Similac G	IX26	14127	1385	NOT AFFECTED	stock base powder	28351	vided, not included	vided, not included	26/04/13 (IX26)	Non-affected feedstc	
Vietnam	3A NUTRI	17-Jun-13	5	Formulat	Similac G	IX26	14137.2	1386	NOT AFFECTED	stock base powder	28353	vided, not included	vided, not included	26/04/13 (IX26)	Non-affected feedstc	
Vietnam	3A NUTRI	17-Jun-13	6	Formulat	Similac G	IX26	2835.6	278	NOT AFFECTED	stock base powder	28355	vided, not included	vided, not included	26/04/13 (IX26)	Non-affected feedstc	
NZL2013/FONT4/49345Canpac																
Country	Consignee	ETA	Product	Product d	Brand and	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock	Line
Vietnam	3A NUTRI	3-Jul-13	3	Formulat	Similac G	IX27	5712.0	560	Affected	Indirect	29343	683417-0004	2676G53117	27/04/13 (IX27)	FX22B	3
Vietnam	3A NUTRI	3-Jul-13	3	Formulat	Similac G	IX27	8353.8	819	NOT AFFECTED	stock base powder	29343	vided, not included	vided, not included	27/04/13 (IX27)	Non-affected feedstc	
Vietnam	3A NUTRI	3-Jul-13	4	Formulat	Similac G	IX27	14137.2	1386	NOT AFFECTED	stock base powder	29346	vided, not included	vided, not included	27/04/13 (IX27)	Non-affected feedstc	
Vietnam	3A NUTRI	3-Jul-13	5	Formulat	Similac G	IX27	6987.0	685	NOT AFFECTED	stock base powder	29323	vided, not included	vided, not included	27/04/13 (IX27)	Non-affected feedstc	
Vietnam	3A NUTRI	3-Jul-13	1	Formulat	Similac G	IX28	642.6	63	NOT AFFECTED	stock base powder	29330	vided, not included	vided, not included	28/04/13 (IX28)	Non-affected feedstc	
Vietnam	3A NUTRI	3-Jul-13	2	Formulat	Similac G	IX28	5783.4	567	NOT AFFECTED	stock base powder	29330	vided, not included	vided, not included	28/04/13 (IX28)	Non-affected feedstc	
Vietnam	3A NUTRI	3-Jul-13	6	Formulat	Similac G	IX28	7068.6	693	NOT AFFECTED	stock base powder	29323	vided, not included	vided, not included	28/04/13 (IX28)	Non-affected feedstc	
Vietnam	3A NUTRI	3-Jul-13	7	Formulat	Similac G	IX28	14137.2	1386	NOT AFFECTED	stock base powder	29325	vided, not included	vided, not included	28/04/13 (IX28)	Non-affected feedstc	
NZL2013/FONT4/49353 Canpac																
Country	Consignee	ETA	Product	Product d	Brand and	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock	Line
Vietnam	3A NUTRIT	3-Jul-13	1	Formulat	Similac G	IX29	2256.0	235	Affected	Direct	29345	683404-0007	2565G54119	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	3-Jul-13	3	Formulat	Similac G	IX28	1171.2	122	Affected	Direct	29341	683404-0005	2564G54118	28/ 04/13 (IX28)	FX23A	4
Vietnam	3A NUTRIT	3-Jul-13	4	Formulat	Similac G	IX28	1075.2	112	Affected	Direct	29341	683404-0006	2565G54118	28/ 04/13 (IX28)	FX23A	4
Vietnam	3A NUTRIT	3-Jul-13	5	Formulat	Similac G	IX29	3686.4	384	Affected	Direct	29341	683404-0007	2565G54119	28/ 04/13 (IX28)	FX23A	4
Vietnam	3A NUTRIT	3-Jul-13	2	Formulat	Similac G	JX06	11059.2	1152	NOT AFFECTED	No risk - not notified as affected product						
NZL2013/FONT4/49283 Canpac																
Country	Consignee	ETA	Product	Product d	Brand and	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock	Line
Vietnam	3A NUTRIT	17-Jun-13	1	Formulat	Similac G	IX24	13516.800	1408	Affected	Direct	28356	683404-0001	2564G54114	24/04/13 (IX24)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	2	Formulat	Similac G	IX25	3686.400	384	Affected	Direct	28346	683404-0002	2564G54115	25/04/13 (IX25)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	3	Formulat	Similac G	IX26	9216.000	960	Affected	Direct	28346	683404-0003	2564G54116	26/04/13 (IX26)	FX22C	4

Vietnam	3A NUTRIT	17-Jun-13	4	Formulat	Similac C	IX27	614.400	64	Affected	Direct	28346	683404-0004	2564G54117	27/04/13 (IX27)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	5	Formulat	Similac C	IX24	192.000	20	Affected	Direct	28345	683404-0001	2564G54114	24/04/13 (IX24)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	6	Formulat	Similac C	IX26	220.800	23	Affected	Direct	28345	683404-0003	2564G54116	26/04/13 (IX26)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	7	Formulat	Similac C	IX27	998.400	104	Affected	Direct	28345	683404-0004	2564G54117	27/04/13 (IX27)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	8	Formulat	Similac C	IX28	11059.200	1152	Affected	Direct	28345	683404-0005	2564G54118	28/04/13 (IX28)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	9	Formulat	Similac C	IX24	11673.600	1216	Affected	Direct	28350	683404-0001	2564G54114	24/04/13 (IX24)	FX22C	4
Vietnam	3A NUTRIT	17-Jun-13	10	Formulat	Similac C	IX25	1766.400	184	Affected	Direct	28350	683404-0002	2564G54115	25/04/13 (IX25)	FX22C	4
												2644				
NZL2013/FONT4/49287 Canpac																
Country	Consignee	ETA	Product	Product d	Brand and	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock	Line
Vietnam	3A NUTRIT	17-Jun-13	1	Formulat	Similac C	IX29	1782	165	Affected	Direct	28417	683418-0001	2565G54119	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	17-Jun-13	2	Formulat	Similac C	IX29	11286	1045	Affected	Follow-on	28417	683418-0002	2566G54119	29/04/13 (IX29)	FX23B	4
Vietnam	3A NUTRIT	17-Jun-13	3	Formulat	Similac C	IX29	13068	1210	Affected	Direct	28416	683418-0001	2565G54119	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	17-Jun-13	4	Formulat	Similac C	IX29	11286	1045	Affected	Direct	28415	683418-0001	2565G54119	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	17-Jun-13	5	Formulat	Similac C	IX29	1782	165	Affected	Direct	28415	01 or 683418-0002	2565G54119 or 25	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	17-Jun-13	6	Formulat	Similac C	IX29	13068	1210	Affected	Direct	28871	683418-0001	2565G54119	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	17-Jun-13	7	Formulat	Similac C	IX29	13068	1210	Affected	Direct	28877	683418-0001	2565G54119	29/04/13 (IX29)	FX23A	4
Vietnam	3A NUTRIT	17-Jun-13	8	Formulat	Similac C	IX29	6372	590	Affected	Follow-on	28872	683418-0002	2566G54119	29/04/13 (IX29)	FX23B	4
Vietnam	3A NUTRIT	17-Jun-13	9	Formulat	Similac C	IX30	6534	605	Affected	Follow-on	28872	03 or 683418-0004	20 or 2567G54120	30/04/13 (IX30)	FX23B or FX	4
Vietnam	3A NUTRIT	17-Jun-13	10	Formulat	Similac C	IX29	13068	1210	Affected	Follow-on	28875	683418-0002	2566G54119	29/04/13 (IX29)	FX23B	4
Vietnam	3A NUTRIT	17-Jun-13	11	Formulat	Similac C	IX30	13068	1210	Affected	Follow-on	28874	03 or 683418-0004	20 or 2567G54120	30/04/13 (IX30)	FX23B or FX	4
Vietnam	3A NUTRIT	17-Jun-13	12	Formulat	Similac C	IX30	12744	1180	Affected	Follow-on	28880	03 or 683418-0004	20 or 2567G54120	30/04/13 (IX30)	FX23B or FX	4
Vietnam	3A NUTRIT	17-Jun-13	13	Formulat	Similac C	IX30	13068	1210	Affected	Follow-on	28878	03 or 683418-0004	20 or 2567G54120	30/04/13 (IX30)	FX23B or FX	4

No health certificate								
Country	Consignee	ETA	Product	Product des	Brand and #	Cypher	Weight (kg)	o of cartons
Australia	Fonterra A	6-Oct-12				JW17	4750	190
Australia	Fonterra A	6-Oct-12				JW18	8775	541

Status	ategorisation
Affected	Direct
Affected	Direct

NZL2013/FONT4/41269 Canpac									
Country	Consignee	ETA	Product	Product des	Brand and P	Cypher	Weight (kg)	o of cartons	Status
Saudia Ara	AL-KAMAL	17-Jul-13	1	Dairy based nutrition	JX02		13068	1210	Affected
Saudia Ara	AL-KAMAL	17-Jul-13	2	Dairy based nutrition	JX02		13068	1210	Affected
Saudia Ara	AL-KAMAL	17-Jul-13	4	Dairy based nutrition	JX02		11286	1045	Affected
Saudia Ara	AL-KAMAL	17-Jul-13	3	Dairy based nutritional	HX19		1522.8	141	Not affecte

NZL2013/FONT4/46625 Canpac									
Country	Consignee	ETA	Product	Product des	Brand and P	Cypher	Weight (kg)	o of cartons	Status
Saudia Ara	AL-KAMAL	18-Jul-13	8	Formulated Supplemen	JX02		2754	255	Affected
Saudia Ara	AL-KAMAL	18-Jul-13	1	Formulated Supplement	EW29		201.6	21	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	2	Formulated Supplement	EW29		259.2	27	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	3	Formulated Supplement	EW30		124.8	13	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	4	Formulated Supplement	FX02		278.4	29	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	5	Formulated Supplement	FX22		2052	190	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	6	Formulated Supplement	FX22		5940	550	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	7	Formulated Supplement	IX08		434.304	116	Not affecte
Saudia Ara	AL-KAMAL	18-Jul-13	9	Formulated Supplement	IX21		1856.4	182	Not affecte

Categorisation	Seal	Job number	Batch number	Manufacture	Feedstock	Line
Direct	E28996	681366-0001	287824K40	2/05/2013	FX22C	4
Direct	E28997	681366-0001	287824K40	2/05/2013	FX22C	4
Direct	E28993	681366-0001	287824K40	2/05/2013	FX22C	4
Not on the	E28993					

Categorisation	Seal	Job number	Batch number	Manufacture	Feedstock	Line
Direct	E29661	681366-0001	287824K40	29/12/2012	FX22C	4
Not on the	E29668					
Not on the	E29668					
Not on the	E29668					
Not on the	E29668					
Not on the	E29668					
Not on the	E29663					
Not on the	E29661					
Not on the	E29661					

NZL2012/FONT4/85879 Hautapu											
Country	Consignee	ETA	Product	Product description	Brand and P	Cypher	Weight (kg)	o of cartons	Status	Risk categorisation	Seal
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	4	Whey protein concentrate	JW22	8350	334	Affected	Direct	D57063	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	6	Whey protein concentrate	JW22	1400	56	Affected	Direct	D57193	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	1	Whey protein concentrate	FW30	8400	336	Not affected	Not on the list of affect	D57066	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	2	Whey protein concentrate	GW07	5600	224	Not affected	Not on the list of affect	D57066	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	3	Whey protein concentrate	GW07	5400	216	Not affected	Not on the list of affect	D57063	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	5	Whey protein concentrate	BW05	12500	500	Not affected	Not on the list of affect	D57063	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	7	Whey protein concentrate	BW05	2800	112	Not affected	Not on the list of affect	D57064	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	8	Whey protein concentrate	BW06	11000	440	Not affected	Not on the list of affect	D57064	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	9	Whey protein concentrate	BW06	9800	392	Not affected	Not on the list of affect	D57061	
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	16-Dec-12	10	Whey protein concentrate	BW09	4200	168	Not affected	Not on the list of affect	D57061	

NZL2012/FONT4/87923 Hautapu											
Country	Consignee	ETA	Product	Product description	Brand and P	Cypher	Weight (kg)	o of cartons	Status	Risk categorisation	Seal
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	7	Whey protein concentrate	JW17		4800	192	Affected	Direct	D58022
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	1	Whey protein concentrate	FW16		800	32	Not affected	Not on the list of affected	D58022
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	2	Whey protein concentrate	FW20		475	19	Not affected	Not on the list of affected	D58022
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	3	Whey protein concentrate	FW21		950	38	Not affected	Not on the list of affected	D58022
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	4	Whey protein concentrate	HW20		275	11	Not affected	Not on the list of affected	D58022
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	5	Whey protein concentrate	HW25		1200	48	Not affected	Not on the list of affected	D58022
China	SHANGHAI SUGAR CIGARETTE & WINE (G	23-Dec-12	6	Whey protein concentrate	IW07		15575	623	Not affected	Not on the list of affected	D58022

NZL2012/FONT4/100033 Hautapu											
Country	Consignee	ETA	Product	Product description	Brand and P	Cypher	Weight (kg)	o of cartons	Status	Risk categorisation	Seal
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	4	Whey protein concentrate	JW22		525	21	Affected	Direct	D81140
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	1	Whey protein concentrate	BW09		4200	168	Not affected	Not on the list of affect	D81140
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	2	Whey protein concentrate	DW12		14525	581	Not affected	Not on the list of affect	D81140
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	3	Whey protein concentrate	DW15		5875	235	Not affected	Not on the list of affect	D81140
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	5	Whey protein concentrate	DW15		8400	336	Not affected	Not on the list of affect	D89082
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	6	Whey protein concentrate	DW17		16425	657	Not affected	Not on the list of affect	D89082
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	7	Whey protein concentrate	DW19		12350	494	Not affected	Not on the list of affect	D81132
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	8	Whey protein concentrate	DW22		12600	504	Not affected	Not on the list of affect	D81132
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	9	Whey protein concentrate	DW22		19550	782	Not affected	Not on the list of affect	D81133
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	27-Jan-13	10	Whey protein concentrate	DW26		5600	224	Not affected	Not on the list of affect	D81133

NZL2012/FONT4/53731 Hautapu											
Country	Consignee	ETA	Product	Product description	Brand and P	Cypher	Weight (kg)	o of cartons	Status	Risk categorisation	Seal
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	11	Whey protein concentrate	JW22		4200	168	Affected	Direct	D29789
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	1	Whey protein concentrate	DV09		6975	279	Not affected	Not on the list of affect	D29785
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	2	Whey protein concentrate	FW14		1400	56	Not affected	Not on the list of affect	D29785
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	3	Whey protein concentrate	FW26		1400	56	Not affected	Not on the list of affect	D29785
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	4	Whey protein concentrate	FW29		525	21	Not affected	Not on the list of affect	D29785
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	5	Whey protein concentrate	FW30		2800	112	Not affected	Not on the list of affect	D29785
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	6	Whey protein concentrate	GW10		5600	224	Not affected	Not on the list of affect	D29786
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	7	Whey protein concentrate	GW13		8400	336	Not affected	Not on the list of affect	D29786
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	8	Whey protein concentrate	GW14		8375	335	Not affected	Not on the list of affect	D29786
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	9	Whey protein concentrate	GW17		5075	203	Not affected	Not on the list of affect	D29788
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	10	Whey protein concentrate	GW17		9800	392	Not affected	Not on the list of affect	D29789
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	12	Whey protein concentrate	GW13		8925	357	Not affected	Not on the list of affect	D29787
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	13	Whey protein concentrate	GW14		4200	168	Not affected	Not on the list of affect	D29787
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	14	Whey protein concentrate	FW30		2400	96	Not affected	Not on the list of affect	D29784
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	15	Whey protein concentrate	FW31		675	27	Not affected	Not on the list of affect	D29784
China	HANGZHOU WAHAHA HEALTH FOOD CO. L	24-Aug-12	16	Whey protein concentrate	GW10		9750	390	Not affected	Not on the list of affect	D29784

NZL2013/FONT4/44731 Canpac															
Country	Consignee	ETA	Product	Product description	Brand and Name	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	1	Formulated Supplement	Similac Gain	JX02	2721.6	252	Affected	Indirect	E29509	682199-000	287844K40	2/05/2013	GX09
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	4	Formulated Supplement	Similac Gain	JX02	3348.8	311	Affected	Indirect	E29507	682199-000	287844K40	2/05/2013	GX09
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	2	Formulated Supplement	Similac Gain	JX10	788.4	73	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	3	Formulated Supplement	Similac Gain	JX10	3628.8	336	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	5	Formulated Supplement	Similac Gain	JX10	12700.8	1176	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	6	Formulated Supplement	Similac Gain	JX10	16329.6	1512	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	7	Formulated Supplement	Similac Gain	JX10	16329.6	1512	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	8	Formulated Supplement	Similac Gain	JX10	16329.6	1512	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	9	Formulated Supplement	Similac Gain	JX10	7009.2	649	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	10	Formulated Supplement	Similac Gain	JX11	1814.4	168	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	11	Formulated Supplement	Similac Gain	JX11	7257.6	672	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	12	Formulated Supplement	Similac Gain	JX10	16329.6	1512	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	13	Formulated Supplement	Similac Gain	JX10	10886.4	1008	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	14	Formulated Supplement	Similac Gain	JX11	2419.2	224	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	15	Formulated Supplement	Similac Gain	JX11	2721.6	252	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	16	Formulated Supplement	Similac Gain	JX11	16329.6	1512	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	17	Formulated Supplement	Similac Gain	JX11	16329.6	1512	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					

NZL2013/FONT4/45279 Canpac															
Country	Consignee	ETA	Product	Product description	Brand and Name	Cypher	Weight (kg)	No of cartons	Status	Risk categorisation	Seal	Job number	Batch number	Manufacture date	Feedstock
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	1	Formulated Supplement	Similac Gain	JX02	2527.2	234	Affected	Indirect	E28885	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	2	Formulated Supplement	Similac Gain	JX02	13608	1260	Affected	Indirect	E28885	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	3	Formulated Supplement	Similac Gain	JX02	16329.6	1512	Affected	Indirect	E28884	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	5	Formulated Supplement	Similac Gain	JX02	907.2	84	Affected	Indirect	E28882	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	6	Formulated Supplement	Similac Gain	JX02	14515.2	1344	Affected	Indirect	E28882	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	7	Formulated Supplement	Similac Gain	JX02	5443.2	504	Affected	Indirect	E28883	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	8	Formulated Supplement	Similac Gain	JX02	10886.4	1008	Affected	Indirect	E28883	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	9	Formulated Supplement	Similac Gain	JX02	7257.6	672	Affected	Indirect	E28888	682199-000	287844K40	2/05/2013	GX09/GX10
China	ABBOTT LABORATORIES TRADING (SHANGHAI)	30-Jun-13	4	Formulated Supplement	Similac Gain	IX23	885.6	82	Not affected	Not on the list of affected cyphers provided by Ft (email C Robinson 7 August 2013)					

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NZL2013/FONT4/39333 Canpac						
Country	Consignee	ETA	Product	Product description	Brand and Product	Cypher
Phillipines	ABBOTT LABORATORIES		2	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		5	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		6	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		8	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		9	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		10	Dairy based nutritional powder		IX19
Phillipines	ABBOTT LABORATORIES		11	Dairy based nutritional powder		IX19
Phillipines	ABBOTT LABORATORIES		1	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		4	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		7	Dairy based nutritional powder		IX18
Phillipines	ABBOTT LABORATORIES		3	Dairy based nutritional powder		HX24

NZL2013/FONT4/47171 Canpac						
Country	Consignee	ETA	Product	Product description	Brand and Product	Cypher
Phillipines	ABBOTT LABO	30-Jul-13	1	Formulated Supplementary Food fo		JX12
Phillipines	ABBOTT LABO	30-Jul-13	2	Formulated Supplementary Food fo		JX12

Weight (kg)	No of cartons	Status	categorisation	Seal	Job number	Batch number	Manufacture d
2721.6	252	Affected	Indirect	E28341	683202-0002	287454K318	18/04/2013
9525.6	882	Affected	Indirect	E28342	683202-0002	287454K318	18/04/2013
14968.8	1386	Affected	Indirect	E28359	683202-0002	287454K318	18/04/2013
9525.6	882	Affected	Indirect	E28343	683202-0002	287454K318	18/04/2013
3369.6	312	Affected	Indirect	E28344	683202-0002	287454K318	18/04/2013
11394	1055	Not affected	er production	E28344	683202-0003	287464K319	19/04/2013
12366	1145	Not affected	er production	E28360	683202-0003	287464K319	19/04/2013
12247.2	1134	Not affected		E28341			18/04/2013
3607.2	334	Not affected		E28342			18/04/2013
5443.2	504	Not affected		E28343			18/04/2013
1706.4	158	Not affected	Not on the li	E28342			24/03/2013

Weight (kg)	No of cartons	Status	categorisation	Seal	Job number	Batch number	Manufacture d
1922.400	178	Affected	Indirect	29896	683698-0001	287904K412	12/05/13 (JX1
10692.000	990	Affected	Indirect	29896	683698-0002	287914K412	12/05/13 (JX1

Feedstock	Line
GX14	3
GX14	3
GX14	3
GX14	3
GX14	3
GX14	3
GX14	3
GX14	3
GX14	3

Feedstock	Line
GX14	4
GX14	4