| PRODUCT(S): | Frozen Blueberries (Foodservice & Retail) | PA         | <b>GE 1 of</b> 16 |
|-------------|---|------------|-------------------|
| PLANT NAME: | Blueberryland Corporation                 | ISSUE DATE | 4/17/20           |
| ADDRESS:    | 123 Amherst St, Amherst, MA, 01003        | SUPERSEDES | NEW               |

# Food Safety Plan for

## Frozen Blueberries (Wholesale & Retail)

Developed by: <u>Amanda Kinchla</u> PCQI: Amanda Kinchla Date: <u>07/14/2020</u> Approved by: <u>John Stone, Executive Director</u> Production Manager: Amanda Kinchla Date: \_\_\_\_\_

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Food Safety Plan BC - Frozen Blueberries (wholesale & retail)

| PRODUCT(S): | Frozen Blueberries (Foodservice & Retail) | PAGE 2 of 1 |         |  |
|-------------|---|-------------|---------|--|
| PLANT NAME: | Blueberryland Corporation                 | ISSUE DATE  | 4/17/20 |  |
| ADDRESS:    | 123 Amherst St, Amherst, MA, 01003        | SUPERSEDES  | NEW     |  |

## **Company Overview**

Headquartered in Amherst, Massachusetts, the Blueberryland Corporation (BC) is a non-profit organization that provides comprehensive business development counseling, access to capital, commercial office and manufacturing space.

The BC facility was built in 2001 and is 7500 square feet, including 2000 square feet of production space and 4000 square feet of warehouse, cooler and frozen storage, and BC employs a staff of five to co-pack for a wide variety of clients and maintain the facility. The staff operate under a strict set of GMP's and receive regular food safety training.

In 2019, the BC formed a Food Safety team, which is comprised of 4 individuals, including the Director of Operations, the Production & Operations Supervisor, the Production & Operations Team Leader and the Food Business Coordinator.

The Blueberryland Corporation owns and operates a line of flash frozen, local vegetables. This program, called Valley Vegetables, has scaled up over the past four years in order to meet the needs of schools and hospitals participating in the farm to institution movement. The produce for this program is sourced from farms located within 50 miles of the facility, many of which are GAP certified. Each year, the number of growers supplying the BC can differ. In 2020, the BC intends to implement a supplier verification program, which will require all growers to maintain GAP certification.

| Food Salety Team |   |   |
|------------------|---|---|
| Name             | Position  | Training                                    |
| Amanda Kinchla*  | Food Safety Specialist/<br>Extension Associate<br>Professor | M.S. Food Science, FSPCA<br>Lead Instructor |
| Clovis Brown*    | Director of Operations                                      | FSPCA-PCQI                                  |
| Cleo Silva       | Business Development<br>Coordinator                         | In plant training                           |
| Dominique Smith  | Production Supervisor & Operator                            | In plant training                           |
| Ethan Jones      | Team Leader & Operator                                      | In plant training                           |
|                  |   |   |

### Food Safety Team

| PRODUCT(S): | Frozen Blueberries (Foodservice & Retail) | PA         | GE 3 of 16 |
|-------------|---|------------|------------|
| PLANT NAME: | Blueberryland Corporation                 | ISSUE DATE | 4/17/20    |
| ADDRESS:    | 123 Amherst St, Amherst, MA, 01003        | SUPERSEDES | NEW        |

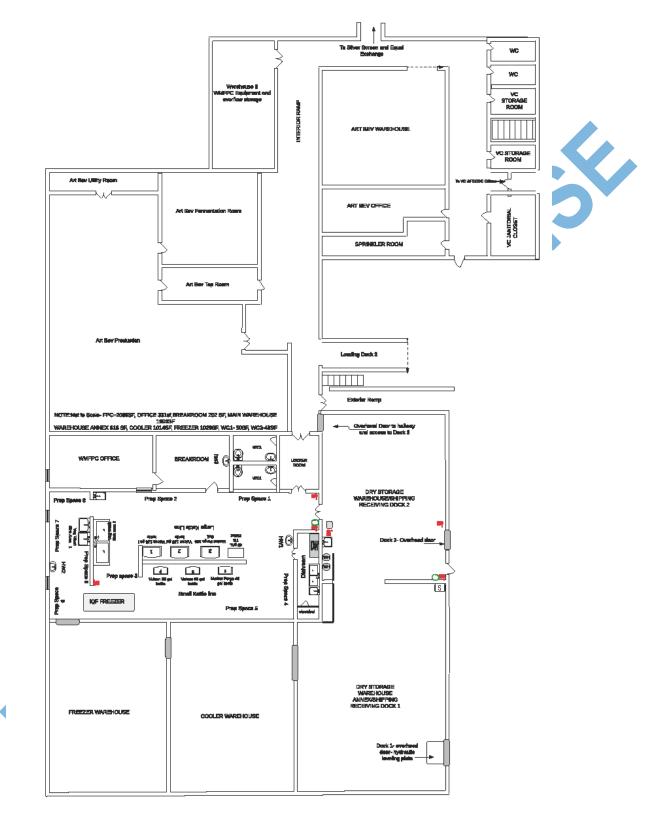


Figure 1. Facility diagram. Original is in a separate file. See Appendix A for the original copy.

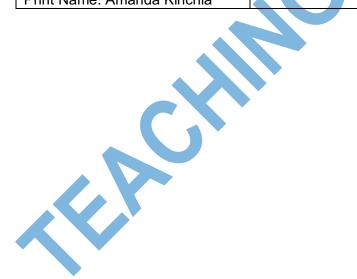
Food Safety Plan BC - Frozen Blueberries (wholesale & retail)

This material is based upon work supported by the NIFA, USDA through the Northeast SARE program under subaward number LNE18-370R

| PRODUCT(S): | Frozen Blueberries (Foodservice & Retail) PAGE 4 of |            |         |  |  |
|-------------|---|------------|---------|--|--|
| PLANT NAME: | T NAME: Blueberryland Corporation                   |            | 4/17/20 |  |  |
| ADDRESS:    | 123 Amherst St, Amherst, MA, 01003                  | SUPERSEDES | NEW     |  |  |

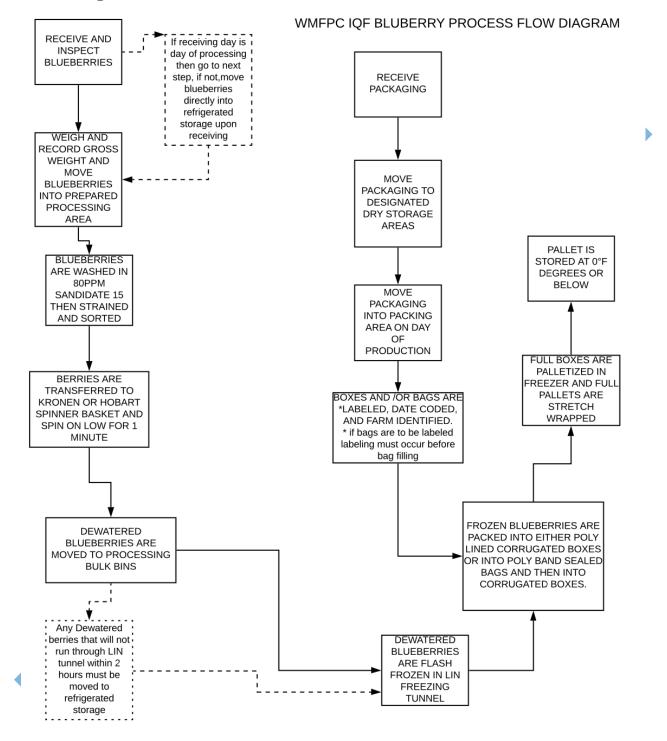
## **Product Description**

| Product Nome(a)                | Lecelly grown IOE blueborries                                 |
|--------------------------------|---|
| Product Name(s)                | Locally grown IQF blueberries                                 |
| Product Description, including | Ready-to-Eat (RTE), frozen whole blueberries                  |
| Important Food Safety          |   |
| Characteristics                |   |
| Ingredients                    | Blueberries   |
| Allergens                      | None declared.  |
| -                              | This facility has other allergens processed at this facility. |
| Packaging Used                 | Product is 12-ounce polybags (3M) heat sealed pouch           |
|                                | packed 30 bags per box (22.5#). Foodservice 25# poly-         |
|                                | lined cardboard boxes.  |
| Intended Use                   | Retail and food service commonly distributed to schools,      |
|                                | health care and other institutions. This is a RTE product     |
|                                | and/or ingredient used for direct consumption or use in       |
|                                | food recipes such as pie, sauces, or other.                   |
|                                |   |
| Intended Consumers             | General public. Including schools, health care and other      |
|                                | institutions (youth and immunocompromised).                   |
| Shelf Life                     | 18 months at frozen   |
| Labeling Instructions          | Keep frozen or thaw under refrigeration (<41F (5C)) for <24   |
|                                | hours before cooking.   |
| Storage and Distribution       | Frozen  |
| Approved: *                    | Date:   |
| Signature:                     | 07/14/2020  |
| Print Name: Amanda Kinchla     |   |
|                                |   |



| PRODUCT(S): | Frozen Blueberries (Foodservice & Retail) | PA         | <b>GE 5 of</b> 16 |
|-------------|---|------------|-------------------|
| PLANT NAME: | Blueberryland Corporation                 | ISSUE DATE | 4/17/20           |
| ADDRESS:    | 123 Amherst St, Amherst, MA, 01003        | SUPERSEDES | NEW               |

### **Flow Diagram**



Food Safety Plan BC – Frozen Blueberries (wholesale & retail)

| PRODUCT(S): | Frozen Blueberries (Foodservice & Retail) | PAG        | <b>GE 6 of</b> 16 |
|-------------|---|------------|-------------------|
| PLANT NAME: | Blueberryland Corporation                 | ISSUE DATE | 4/17/20           |
| ADDRESS:    | 123 Amherst St, Amherst, MA, 01003        | SUPERSEDES | NEW               |

## **Process Narrative**

#### **Procedures**

Receive, and inspect blueberries.

Weigh and record gross weight.

Wash, Rinse and Sanitize all equipment, small wares and food contact surfaces.

Wash, Rinse and Sanitize Green Veggie Wash Brute Containers.

Assemble & line small corrugated boxes w/ polyliners for bulk or w/o for retail and Label boxes and/or retail bags.

Move blueberries into processing area.

Fill Veggie wash Brutes with 80ppm SaniDate® 15.

Pour Blueberries from Pints/Packaging and put into the SaniDate® 15 filled brutes.

Immerse blueberries in SaniDate® 15 bath.

Gently agitate blueberries, use strainer to skim off any leaves or twigs that float to surface

QA- also remove any green or damaged berries.

Transfer Blueberries from brutes to spinner basket using cone strainers, spin on low for 1 minute.

Transfer spun Blueberries to clean and sanitized white lexan.

Cover and refrigerate any washed blueberries that will not be frozen within 2 hours.

Using Plastic gallon measure, place blueberries on center of belt and Run through IQF Freezer.

Fill into poly lines boxes at 25lbs (if bulk filling go to step 16) or

Fill into 7x9 3m bags\* at 12oz using vibratory check weight filler.

Press bag to remove most excess air and Heat seal with band sealer with batch coder imprint

Pack bags into boxes, affixed with label indicating contents, batch and quantity of bags.

Place full boxes immediately in freezer and palletize

\*NOTE: If bags are to be labeled label needs to be affixed first

Store and Ship Frozen

## **Hazard Analysis**

Hazard identification (column 2) considers known or reasonably foreseeable hazards (i.e., potential hazards) that may be present in the food because the hazard occurs naturally, the hazard may be unintentionally introduced, or the hazard may be intentionally introduced for economic gain.

- B = Biological hazards including bacteria, viruses, parasites, and environmental pathogens
- C = Chemical hazards, including radiological hazards, food allergens, substances such as pesticides and drug residues, natural toxins, decomposition, and unapproved food or color additives
- P = Physical hazards include potentially harmful extraneous matter that may cause choking, injury or other adverse health effects

| oure            |                         |        |          |                                    |                            |        |      |
|-----------------|-------------------------|--------|----------|------------------------------------|----------------------------|--------|------|
| (1)             | (2)                     | (3     |          | (4)                                | (5)                        | (6     |      |
| Ingredient/     | Identify potential food | Do a   |          | Justify your decision for column 3 | What preventive control    | ls t   |      |
| Processing Step | safety hazards          | poter  |          |                                    | measure(s) can be applied  |        |      |
|                 | introduced, controlled  |        |          |                                    | to significantly minimize  | cont   |      |
|                 | or enhanced at this     | haza   |          |                                    | or prevent the food safety | applie |      |
|                 | step                    | requi  |          |                                    | hazard?                    | this s | tep? |
|                 |                         | prever |          |                                    | Process including CCPs,    |        |      |
|                 |                         | contr  |          |                                    | Allergen, Sanitation,      |        |      |
|                 |                         | Yes    | No       |                                    | Supply-chain, other        | Yes    | No   |
|                 |                         |        |          |                                    | preventive control         |        |      |
|                 | B Human                 | Х      |          |                                    | Supply-chain               | Х      |      |
| produce         | pathogens such          |        |          | be contaminated with microbial     | Control*: All berries      |        |      |
| (blueberry)     | as Salmonella           |        |          | pathogens                          | are sourced from           |        |      |
|                 | and Hepatitis           |        |          |                                    | approved suppliers         |        |      |
|                 | C Pesticides and        |        | Х        | Unlikely as only US regional       |                            |        |      |
|                 | other crop              |        |          | growers are used. Pesticide        |                            |        |      |
|                 | chemicals               |        |          | monitoring data indicate that US   |                            |        |      |
|                 |                         |        |          | growers are largely in             |                            |        |      |
|                 |                         |        |          | compliance with pesticide          |                            |        |      |
|                 |                         |        |          | residue limits                     |                            |        |      |
|                 | P None                  |        | Х        | Berries sourced are manually       |                            |        |      |
|                 |                         |        |          | harvested.                         |                            |        |      |
| Received        | B None                  |        |          |                                    |                            |        |      |
| packaging       | CNone                   |        |          |                                    |                            |        |      |
| раскаушу        |                         |        |          |                                    |                            |        |      |
|                 | P None                  |        |          |                                    |                            |        |      |
| Produce         | B None                  |        |          | ~                                  |                            |        |      |
| storage         | C None                  |        |          |                                    |                            |        |      |
| (refrigerated)  |                         |        | <u> </u> |                                    |                            |        |      |
| Packaging       | B None                  |        |          |                                    |                            |        |      |
| storage         | CNone                   |        |          |                                    |                            |        |      |
|                 | P None                  |        |          |                                    |                            |        |      |
| Weigh &         | B None                  |        |          |                                    |                            |        |      |
| Transfer to     | CNone                   |        |          |                                    |                            |        |      |
| production      | PNone                   |        |          |                                    |                            |        |      |
| floor           |                         |        |          |                                    |                            |        |      |
| Clean & Sort    | BVegetative             | Х      |          | Cross-contamination in water       | Process Preventive         | Х      |      |
|                 | Pathogen cross-         |        |          | could increase overall lot         | Control                    |        |      |
|                 | contamination in        |        |          | contamination                      |                            |        |      |
|                 | water                   |        |          | oontanination                      |                            |        |      |
|                 | (Salmonella,            |        |          |                                    |                            |        |      |
|                 | Listeria and E.         |        |          |                                    |                            |        |      |
|                 | coli)                   |        |          |                                    |                            |        |      |
|                 | CSanitizer              | ┟──┟   | v        | Not reasonably likely to occur     |                            |        |      |
|                 | concentration too       |        | Х        | with GMP                           |                            |        |      |
|                 |                         |        |          |                                    |                            |        |      |
|                 | high                    |        | ~        |                                    |                            |        |      |
|                 | P Metal particles       |        | Х        | Use of metal strainers are used    |                            |        |      |
|                 |                         |        |          | to remove debris. However, not     |                            |        |      |
|                 |                         |        |          | reasonably likely to occur with    |                            |        |      |
|                 |                         |        |          | GMPS.                              |                            |        |      |

Food Safety Plan Teaching Example

Distribute after Chapter 8: Hazard Analysis and Preventive Controls Determination

| <b>T</b>       |                    | V |   |                                     |                       |   |  |
|----------------|--------------------|---|---|-------------------------------------|-----------------------|---|--|
| Transfer and   |                    | Х |   |                                     | Sanitation preventive | х |  |
| Spin           | Environmental      |   |   |                                     | control               |   |  |
|                | pathogens, such    |   |   | practices not managed at            |                       |   |  |
|                | as Listeria        |   |   | appropriate hygiene level.          |                       |   |  |
|                | C None             |   | Х |                                     |                       |   |  |
|                | P None             |   | Х | Basket breakage could occur.        |                       |   |  |
|                |                    |   |   | However, GMPs in place to that      |                       |   |  |
|                |                    |   |   | evaluates equipment for good        |                       |   |  |
|                |                    |   |   | working order prior to              |                       |   |  |
|                |                    |   |   | production.                         |                       |   |  |
| Transfer to    | BHuman &           | Х |   | Cross-contamination possible if     | Sanitation preventive | x |  |
| Bins           | Environmental      |   |   |                                     | control               |   |  |
|                | pathogens, such    |   |   | practices not managed at            |                       |   |  |
|                | as Listeria        |   |   | appropriate hygiene level.          |                       |   |  |
|                | CNone              |   |   | <u></u>                             |                       |   |  |
|                | PNone              |   |   |                                     |                       |   |  |
| Manually       | B Human &          | Х |   | Cross-contamination possible if     | Sanitation preventive | х |  |
| load onto      | Environmental      | ~ |   | the employee and environment        | control               | ^ |  |
| freezing belt  | pathogens, such    |   |   | practices not managed at            | bonnio.               |   |  |
| incozing beit  | as Listeria        |   |   | appropriate hygiene level.          |                       |   |  |
|                | CNone              |   | Х |                                     |                       |   |  |
|                | PMetal             | Х | ~ | Metal-on-metal in a in this brittle | Dragona proventive    | Х |  |
|                | Pimetai            | ^ |   |                                     | Process preventive    | ^ |  |
|                |                    |   |   |                                     | controls              |   |  |
|                |                    | V |   | contamination.                      |                       |   |  |
| <b>J</b>       | B Human &          | Х |   |                                     | Sanitation preventive | х |  |
| Sealing        | Environmental      |   |   |                                     | control               |   |  |
| (foodservice/  | pathogens, such    |   |   | practices not managed at            |                       |   |  |
| retail)        | as <i>Listeria</i> |   |   | appropriate hygiene level.          |                       |   |  |
|                | CNone              |   | Х |                                     |                       |   |  |
|                | PNone              |   |   | GMPs have equipment                 |                       |   |  |
|                |                    |   |   | inspection prior to production.     |                       |   |  |
| Palletizing in | B None             |   | X |                                     |                       |   |  |
| the Freezer    | CNone              |   | Х |                                     |                       |   |  |
| & Storage      | PNone              |   | X |                                     |                       |   |  |

| Process                            | Hazard(s)   |   |  | Monito  | ring  |  | Corrective Action   | Verification  | Records   |
|------------------------------------|---|---|--|---|---|--|---|---|---|
| Control<br>Step                    |   | Critical Limits   | What   | How   | Frequency   | Who  |   |   |   |
| Cleaning<br>and Sorting            | The<br>washing of<br>the produce<br>may<br>increase the<br>risk of<br>contaminati<br>on at the<br>produce<br>washing<br>step. | minimum<br>product<br>concentration of<br>40 ppm of<br>peroxyacetic<br>acid with a hold<br>time of 90<br>seconds prior to<br>use – based on<br><u>manufacturing</u><br><u>instructions</u> for<br>human<br>pathogens in<br>wash water.  | Test the<br>PAA<br>concentrati<br>on in the<br>wash<br>water   | PAA test strip  | At the<br>start of<br>every<br>productio<br>n shift<br>and at<br>every<br>water<br>change | Production<br>supervisor<br>or<br>designee                     | <ul> <li>Add additional<br/>water if PAA<br/>concentration is too<br/>high</li> <li>Add more PAA if<br/>the concentration is<br/>too low</li> <li>If the product is<br/>processed without</li> <li>PAA treatment in<br/>the water, hold it<br/>back to the last<br/>good check and<br/>evaluate and<br/>discard product.</li> </ul> | Review of PAA<br>sheet,<br>Corrective<br>Action and<br>Verification<br>within 7<br>working days   | Production<br>Sheet (PAA<br>table) by<br>Production<br>supervisor or<br>designee<br>Correction<br>Action records  |
| Manual<br>load<br>freezing<br>belt | Metal-on-<br>metal<br>contact due<br>to the<br>flexing of<br>the belt<br>chains   | FDA's Health<br>Hazard<br>Evaluation Board<br>(FDA, 2005e;<br>Olsen, 1998) has<br>supported<br>regulatory action<br>against products<br>with metal<br>fragments of 0.3<br>inches (7 mm) to<br>1.0 inches (25<br>mm) in length.<br>Such fragments<br>have been<br>shown to be a<br>hazard to<br>consumers. | Metal<br>hazards<br>can be<br>controlled<br>by regular<br>inspection<br>of at-risk<br>equipment<br>for signs of<br>damage. | Visual<br>inspection for<br>damaged<br>chains,<br>missing<br>chains, loose<br>links, etc. | Before<br>every<br>productio<br>n run   | Production<br>supervisor<br>or other<br>designated<br>employee | If damage to the<br>equipment if found:<br>- Fix the damaged<br>area ensuring that<br>the equipment is<br>adequate to run.<br>- If the equipment is<br>not repairable,<br>contact the<br>supervisor and do<br>not run production.   | Review logs of<br>conducted<br>scheduled<br>maintenance<br>checks to<br>confirm<br>equipment is<br>adequate.<br>Review of<br>Visual Metal<br>Detection<br>records,<br>corrective<br>actions and<br>verification | Production<br>Sheet (visual<br>inspection for<br>metal) by<br>Production<br>supervisor or<br>designee<br>Routine<br>maintenance<br>inspection<br>Corrective<br>Action records |

## **Food Allergen Preventive Controls**

There are no allergens identified in this product.

Food Safety Plan Teaching Example Distribute after Chapter 10: Food Allergen Preventive Controls

This material is based upon work supported by the NIFA, USDA through the Northeast SARE program under subaward number LNE18-370R

## Sanitation Preventive Controls Sanitation Preventive Control - Cleaning and Sanitizing Procedure

| Location                   | FPC Processing area  |
|----------------------------|--|
| Purpose                    | Cleaning and sanitizing of the food processing area is important to reduce microbial cross-contamination or recontamination with environmental pathogens that may impact product safety. |
| Frequency                  | Cleaning and Sanitizing: Before every production, after 4 hours of continuous production (if cleanable) and after every production.  |
| Who                        | Production team member   |
| Procedure                  | WMFPC SSOPS 2020   |
| Monitoring                 | Before and after every production  |
|                            | Visually inspect   |
|                            | Monitor the sanitation concentration prior to use.   |
| Corrections                | If residual soil is observed on surfaces within the facility, reclean and sanitize.  |
|                            | If sanitizer concentration is not at the proper level, make a new solution.  |
| Records                    | Production Sheet (visual inspection for Sanitation – wash, rinse, sanitize) by Production supervisor or designee   |
|                            | Production Sheet (sanitation concentration) by Production supervisor or designee   |
|                            | Production Sheet (dishwasher temperature) by Production supervisor or designee   |
|                            |  |
| Verification<br>activities | QA manager or designee reviews and signs all Production Sheets within 7 working days.  |



## **Environmental Monitoring Program**

Franklyn County Community Development maintains an environmental monitoring program as form of accessing the efficiency of the cleaning and sanitation.

#### Purpose

- 1. Validation of cleaning and sanitation of the food processing area.
- 2. To assure the lack of harmful microorganisms such as Listeria spp.

#### **Testing zones**

- Zone 1 Food contact surfaces of equipment
- Zone 2 Non-food contact surfaces close to food contact surface and food
- Zone 3 Non-food contact surfaces
- Zone 4 Non-food contact surfaces in low-risk areas

| Purpose                                       |   |  |  |  |  |  |
|---|---|--|--|--|--|--|
|   | <ol> <li>Validation of cleaning and sanitation of the food processing area.</li> <li>To assure the lack of harmful microorganisms such as <i>Listeria</i> spp.</li> </ol>   |  |  |  |  |  |
| Testing zones                                 |   |  |  |  |  |  |
| Zone 1 Food cont                              | act surfaces of equipment   |  |  |  |  |  |
| Zone 2 Non-food                               | act surfaces of equipment<br>contact surfaces close to food contact surface and food  |  |  |  |  |  |
| Zone 3 Non-food                               | contact surfaces  |  |  |  |  |  |
| Zone 4 Non-food                               | contact surfaces in low-risk areas  |  |  |  |  |  |
| Environmental M                               | Ionitoring for Sanitation Control Verification  |  |  |  |  |  |
| Location                                      | FPC Processing area   |  |  |  |  |  |
| Purpose                                       | Validation of cleaning and sanitation of the food processing area. To assure the lack of harmful microorganisms such as Listeria spp. environmental monitoring needs to be performed.   |  |  |  |  |  |
| Frequency                                     | Sampling in a routine to verify that the facility is clean using ATP or microbial swabs minimum of 5 testing sites monthly.   |  |  |  |  |  |
| Who   | QA manager or food safety technician  |  |  |  |  |  |
| Sample<br>identification                      | Listeria spp.   |  |  |  |  |  |
| Sampling<br>procedure                         | Procedure supplied by the laboratory  |  |  |  |  |  |
| Laboratory                                    | Approved certified labs (i.e. Vallid Labs Agawam,MA Listeria LPT AOAC 2013.01) (swab) and ATP test  |  |  |  |  |  |
| Test conducted                                | Method approved by the FDA or USDA (i.e.Listeria LPT AOAC 2013.01 (swab)) and ATP test following manufacturer's directions  |  |  |  |  |  |
| Interpretation of results                     | A negative result means that there is no Listeria spp. present. A positive result means that there is Listeria spp. present.  |  |  |  |  |  |
| Action of a negative result                   | The facility can continue to operate as usual   |  |  |  |  |  |
| Corrective<br>action for a<br>positive result | If the test results are positive it is necessary to intensify the cleaning and sanitation of the facility. Additional testing is necessary and once the tests are negative the production and monitoring may return to normal. If a second result is positive, intensified cleaning |  |  |  |  |  |

#### Environmental Monitoring for Sanitation Control Verification

Food Safety Plan Teaching Example Distribute after Chapter 12: Supply-chain Preventive Controls

| and sanitation is necessary, and disassembling the equipment may be necessary. After a |
|--|
| second positive result, a hold and release system needs to be implemented.             |
|  |

## **Supply-chain-applied Preventive Controls Program**

#### Verification Procedures for Supply-Chain-Applied Control Ingredients

Ingredient 1: Fresh blueberries

| Hazards requiring a<br>supply-chain-applied<br>control | Human pathogens such as Salmonella and Hepatitis                                   |
|--|--|
| Preventive controls applied by the supplier            | Commonwealth Quality Certified or that have been approved by the facility manager. |
| Verification activities and procedures                 | Copy of the CQP record   |
| Records  | Audit report kept in supplier verification file                                    |

## Approved Suppliers for Ingredients Requiring a Supply-chain-applied Control [this table is an alternative format to provide the information above]

| this table is an alternative format to provide the mornation above |  |   |                                 |   |   |
|--|--|---|---------------------------------|---|---|
| Ingredient<br>(requiring<br>supply-chain-<br>applied control)      | Approved<br>Supplier                           | Hazard(s) requiring<br>supply-chain-<br>applied control               | Date of<br>Approval             | Verification<br>method                          | Verification records  |
| Blueberry  | CQP vetted<br>producers in<br>the<br>Northeast | Vegetative<br>pathogens such as<br><i>Salmonella</i> and<br>Hepatitis | July 14 <sup>th</sup> ,<br>2020 | Copy of the<br>CQP audit<br>obtained by<br>MDAR | Audit<br>report kept<br>in supplier<br>verification<br>file |

Receiving Procedure for Ingredients Requiring a Supply-chain-applied Control



**Purpose:** Ensure that all ingredients requiring a supply-chain-applied preventive control are received from approved suppliers with appropriate preventive controls in place.

Frequency: Each delivery

Who: Receiving clerk

#### Procedure:

**1**. Verify that each load of blueberries was sourced by a CQP vendor (reference approved supplier roster). By checking the bill of lading and manufacturer name on the cases received.

2. Document on receiving sheet

Corrections: If product is not from the approved supplier:

- 1. Receiving clerk places product on hold, notifies operations team
- 2. Operations team reviews status and
- Rejects load, or

- Attaches to the receiving record documentation of verification activity applied for use of blueberries from temporary supplier, allowing release for use

Records: Receiving Sheet, Bill of Lading

Verification: Receiving records review within 7 work days

#### **Determination of Verification Procedures**

**Ingredient:** Blueberries

**Hazards requiring a supply-chain-applied control:** Hazard analysis determined that vegetative pathogens, such as Salmonella, pathogenic E. coli, and L. monocytogenes are hazards requiring supply-chain-applied controls in the production of blueberries. We do not have a kill step for IQF blueberries.

**Preventive controls applied by the supplier:** Good Agricultural Practices as outline in the produce safety rule and the Commonwealth Quality Program. See Produce Compliance Criteria defined here: https://www.mass.gov/doc/commonwealth-quality-program-cqp-compliance-criteria-for-produce/download

**Conclusion:** A third party supplier audit by an approved Mass CQP auditor obtained by MDAR (Massachusetts Department of Agriculture)

**Verification procedures:** A copy of a 3rd party audit of CQP certification. The audit date, auditor qualifications, audit procedures and audit results are reviewed. If any requirements are deficient (including auditor qualifications) and follow up discussion with the farm takes place, as necessary, to determine what, if any, verification activities are needed for any deficiencies requiring corrective actions mentioned in the report.

**Records:** Copy of the audit report and, where necessary, verification of corrective actions taken by the supplier are maintained on file by the Food Safety Team Leader.

## Appendix Appendix A - Swabbing Protocol

#### **Courtesy of Vallid Labs**

1. Unused swabs can be held at ambient temperature. Used swabs must be refrigerated.

2. Mark bag with location(s) time & date of sample or other identification. This must match your chain of custody.

3. Wash & sanitize your hands

4. Pull off perforated top.

5. Remove bag with glove from top of kit. (Sterile gloves may be provided in a separate bag)

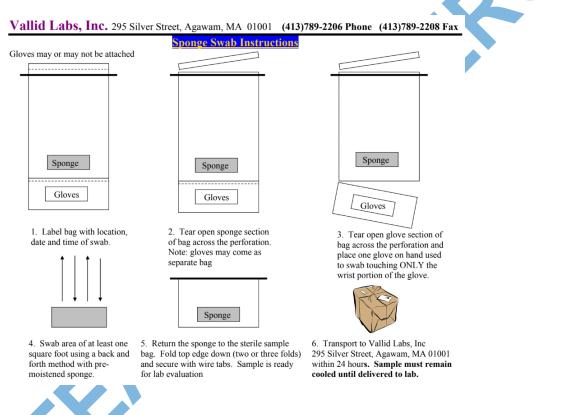
6. Put on gloves provided. Touching only the wrist area while putting on.

7. The area wiped must be at least 12in2 area. If the area is smaller then that, swab the whole surface (i.e. a knob). Use the whole sponge wiping 10 times vertically and 10 times horizontally.

8. Carefully place the sponge back into the bag when finished. Minimally touching the inside of the bag and the sponge.

9. Close the bag by folding over the top several times and twisting the ends.

10. Return to lab within 24hr keeping cool with Chain of Custody Form. Overnight shipment may be necessary



Shipping

ATP test is performed in house and the results are immediate. However, the microbial swabs must be transported to an approved third-party lab. All samples collected will be refrigerated and shipped overnight to an approved lab such as Vallid Labs at 295 Silver Street, Agawam, MA, 01001, phone number (413) 798-2206. The swabs will be tested for *Listeria* spp. as it is an indicator for *Listeria* monocytogenes and other listeria like organisms. The results will be received 24 hours after the lab has received the samples. The analysis method used must be one of the FDA or USDA approved methods (i.e. Vallid Labs is VIDS Listeria LPT AOAC 2013.01).

Food Safety Plan Teaching Example Distribute after Chapter 12: Supply-chain Preventive Controls

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#### Records

Test records shall include the date, the operator that collected the sample, the testing method (ATP or Listeria), location that performed the test, the method utilized, results and if needed the correction action. This must be signed by a qualified individual.

| Sample | of the | Record | Keeping | Log |
|--------|--------|--------|---------|-----|
|--------|--------|--------|---------|-----|

| Test Date                              |          |        |                                     |
|--|----------|--------|-------------------------------------|
| Laboratory<br>used                     |          | 1      |                                     |
| Swab Number                            | Location | Result | Need of Corrective<br>Action? (Y/N) |
|  |          |        |                                     |
|  |          |        |                                     |
|  |          |        |                                     |
|  |          |        |                                     |
| Corrective<br>actions                  |          |        |                                     |
| Approved:<br>Signature:<br>Print Name: |          | G      |                                     |
| Date                                   |          |        |                                     |
|  |          |        |                                     |