

30 April 2024

NJDEP - Air Quality Permitting and Planning Bureau of Stationary Sources Preconstruction Permits Section 401 E. State Street, 2nd Floor, P.O. Box 420 Mail Code 401-02 Trenton, NJ 08625-0420

Re: Subchapter 8 Permit Modification Application for Poly Drum Wash Line (PCP190002) Industrial Container Services, LLC. 267 Jefferson Street, Camden, NJ Facility ID No. 51924

Dear Sir/Madam:

The enclosed application is for a modification to our Subchapter 8 permit (PCP190002) for our Industrial Container Services, LLC (ICS) facility in Camden, NJ (Facility ID No. 51924). ICS, as a subsidiary of its parent company Mauser Packaging Solutions, is the largest provider of reusable industrial container solutions in North America, and we provide customers with a variety of environmentally responsible products and solutions.

#### **Facility Description**

The ICS Camden facility is a plastic container washing facility that consists of two wash lines - one for intermediate bulk containers (IBCs or "totes") and one for poly (plastic) drums. This permit modification is for the Poly Drum Wash Line.

The vast majority of poly drums received and processed at the Camden facility previously contained only inorganic materials, such as acids, caustics, peroxides, and bleach. A much smaller percentage of drums previously contained organic materials, such as food-grade flavorings and alcohol/water solutions. All drums and totes received at the facility are empty containers with a minimal residual "heel" remaining on the bottom of each container. Any containers that previously contained hazardous materials are considered as "RCRA empty" per 40 CFR Section 261.7 and therefore are exempt from hazardous waste treatment, storage, and disposal regulations.

The drum cleaning process includes spraying the interior of the drums with a heated wash water followed by a water rinse. The drums are then drained of the water rinse, the drum interiors are steamed to facilitate drying, residual water is vacuumed out of each drum, the

drum interiors are inspected, and lastly the drum exteriors are wiped down. See Figure 1 for a process flow diagram of the drum wash process, and see the permit application submitted on August 28, 2019 for a more detailed description of the process and facility operations.

#### **Proposed Permit Modifications**

On May 13, 2022, the Department requested that ICS conduct stack emission testing on the drum line wash operations (U1, OS1) to demonstrate compliance with the permit-approved VOC air emission rate of 2.33 lbs/hour (Permit No. PCP190002, Subject Item U1, OS1, Ref. #5). The stack testing requirement specified that compliance would be determined based on the average of three validated stack test runs.

The required stack testing was conducted on June 27, 2023 (TST # 220001). The results indicated an average VOC emission rate of 3.99 lbs/hour, while processing at an average of 82 drums per hour. This permit application is to modify the maximum hourly emission rate to reflect emission rates determined from the recent stack testing and changes to the maximum processing rate.

The current permit for the Poly Drum and Tote Washing Systems (U1) was issued on September 8, 2020. Emission rates in the current permit were estimated based on calculations provided by ICS in the associated August 28, 2019 permit application. The estimates were developed based on a survey of drums processed at the facility during a 10-day period to determine VOC constituent contents and associated partial vapor pressures. Emissions from the drums were then estimated assuming that the drum volumes are saturated with VOC based on the constituents in the drum, with the volume of the drum emitted during the cleaning process.

An overall emission factor of 0.0291 lbs VOC/drum processed was developed based on these calculations. Hourly VOC emission rates from the drum washing were determined based on the emission factor and a maximum processing rate of 80 drums per hour. Annual potential emissions from the drum washing were estimated based on a maximum annual processing rate of 187,000 drums per year.

A revised emission factor of 0.0489 lbs VOC/drum processed was developed based on the June 27, 2023 stack testing results (see Table 1 attached), which is the average emission factor from the three test runs. A revised maximum VOC hourly emission rate was estimated at 3.2 lbs/hour based on a maximum of 65 drums processed per hour. Potential annual VOC emissions from the drum washing line are based on a maximum processing rate of 135,200 drums per year.

ICS believes that the revised maximum VOC emission rate is more representative of maximum operating conditions and emissions from the drum washing operations due to:

- Actual hourly production rates at the facility are typically 45 drums per hour or less. A
  maximum rate of 65 drums per hour is more representative of the maximum that could
  realistically be achieved.
- Emission rates are determined based on an emission factor determined based on actual stack testing results instead of theoretical calculations.
- The stack testing was conducted with all drums having previously stored VOC-containing materials. The maximum potential hourly and annual VOC emission rates in the current permit were also estimated assuming that all drums processed previously contained VOC materials. As previously noted, most of the drums processed at the facility previously contained only inorganic materials with no VOC materials present. Rarely, if ever, would the facility process only VOC-containing drums in any hour.

Note that there are no physical changes in the drum (OS1) or tote washing operations (OS2) and solvent cleaning with wipe rags (OS3) proposed as part of this permit modification, including no changes in materials processed or increases in production rates. Therefore, as noted in the August 28, 2019 permit application, there are no hazardous air pollutant (HAP) emission rates above the reporting thresholds identified in N.J.A.C. 7:27-17.9.

The drum cleaning operations are subject to the requirements of 7:27-16.16 that establishes maximum allowable VOC emission rates for "other source operations." Based on measured VOC concentrations from the June 27, 2023, stack testing of less than 1,000 ppm, the drum washing operations classify as Range A from Table 16B per 7:27-16.16(d), resulting in a maximum allowable VOC emission rate of 3.5 lbs/hour per Table 16A per 7:27-16.16(d). The proposed maximum VOC emission rate of 3.2 lbs/hour complies with the maximum allowable emission rate per 7:27-16.16.

The maximum potential annual emission rate from the drum washing operation is 3.3 tons per year. The state of the art (SOTA) requirements of N.J.A.C. 7:27-8.12 apply to new, modified, or reconstructed equipment and control apparatus with potential emissions equal to or above the corresponding thresholds (5 tons per year of VOC, NOx, CO, SO2, or particulate matter). Potential emissions from the drum washing operations are below the threshold limits based on the limits proposed for the permit. Therefore, the SOTA requirements of N.J.A.C. 7:27-8.12 do not apply.

#### Closing

We would be pleased to answer any questions about the application. Please contact me at (781) 793-4002 (mobile) or peter.dipasca@mauserpackaging.com or Mr. Randall Abbuhl of

Weston Solutions, Inc. at (732) 417-5810 or r.abbuhl@westonsolutions.com.

We also request the opportunity to review/discuss any permit conditions with you prior to their issuance.

Sincerely,

MAUSER PACKAGING SOLUTIONS / INDUSTRIAL CONTAINER SERVCES, LLC

Peter T. DiPasca, Jr., P.E.

Director, Environmental Compliance and Sustainability

cc: Randall Abbuhl, Weston Solutions

Domenica Talvacchio, ICS

Rick Capps, Mauser Packaging Solutions Hilton Gericke, Mauser Packaging Solutions Lorne Mills, Mauser Packaging Solutions

# Table 1 - Backup Emission Calculations for U1, OS1 Industrial Container Services LLC Camden, NJ Facility Program Interest # 51924

Stack Test Results from June 27, 2023 (TST #: 220001)

|                | <u>Run 1</u> | Run 2  | <u>Run 3</u> | <u>Average</u> |
|----------------|--------------|--------|--------------|----------------|
| VOC, ppmvd     | 337.3        | 307.5  | 322.3        | 322.4          |
| VOC, lbs/hour  | 4.19         | 3.80   | 4.00         | 3.997          |
| Drums per hour | 78           | 84     | 84           | 82.0           |
| lbs VOC/drum   | 0.0537       | 0.0452 | 0.0476       | 0.0489         |

Average Emission Factor: 0.0489 lbs VOC/drum (from stack testing)

Maximum Processing Rate: 65 drums/hour
Maximum Emission Rate: 3.2 lbs VOC/hour

Projected Maximum Production

Emission Factor: 0.0489 lbs VOC/drum
Maximum Annual Production: 135,200 drums/year
Maximum Annual Emissions: 6,606 lbs VOC/year
3.30 tons VOC/year

**Current Permit Limit:** 

Maximum Emission Factor: 0.0291 lbs VOC/drum
Maximum Annual Production: 187,200 drums/year
Maximum Annual Emissions: 5,448 lbs VOC/year
2.72 tons VOC/year

Change in Annual Emissions: 0.58 tons VOC/year (U1, OS1)

TOTAL Annual Emissions: 6.72 tons VOC/year (U1, OS Summary)

#### **Determination of 7:27-16.16 Range:**

Ethanol <1.0 psi vapor pressure (max per permit application

PCP190002 dated 8/28/2019)

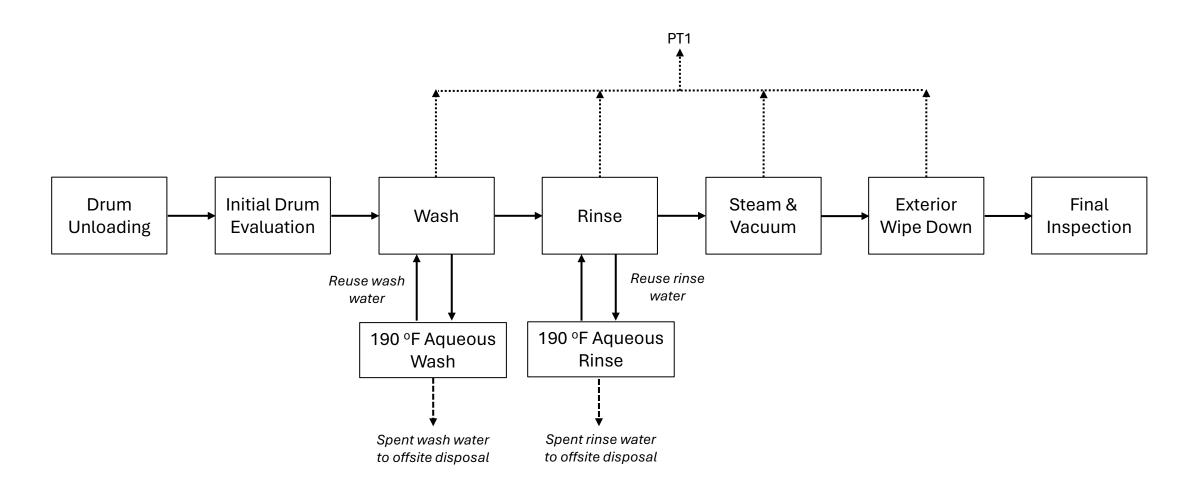
0.034% percent by volume exhaust (max from stack test of 337 ppmvd)

3,500-7,000 CFM exhaust from sources

NJAC 7:27-16.16 Range A

Allowable 3.5 lbs VOC/hour

Figure 1
Drum Line Process Flow Diagram (U1, OS1)
Industrial Container Services, LLC
Camden, NJ Facility - Program Interest # 51924



### New Jersey Department of Environmental Protection Reason for Application

#### **Permit Being Modified**

**Permit Class:** PCP **Number:** 190002

**Description** Modification to revise hourly emission rates for U1 OS1 based on recent stack testing **of Modifications:** results and revised production rates (see attachments for full description and emission

calculations).

Note - VOC increase for U1 OS0 due to 0.58 tpy increase for OS1:

OS1: 2.72 tpy + 0.58 tpy = 3.3 tpy;

OS2: 2.62 tpy (no change) OS3: 0,8 tpy (no change)

OS0: 6.72 tpy (increase of 0.58 tpy)

Facility Name (AIMS): INDUSTRIAL CONTAINER SERVICES, LL

Date: 5/1/2024

Facility ID (AIMS): 51924

### New Jersey Department of Environmental Protection Facility Profile (General)

| Street 267 JEFFERSON AVE<br>Address: CAMDEN, NJ 08104  | State Plane Coordinates:  X-Coordinate:  Y-Coordinate:  Units: |
|--|--|
| Mailing 267 JEFFERSON AVE<br>Address: CAMDEN, NJ 08104 | Datum: Source Org.: Source Type:                               |
| County: Camden Location Description:                   | Industry: Primary SIC: Secondary SIC: NAICS:                   |

Email: DOMENICA.TALVACCHIO@MAUSERPAC

Date: 5/1/2024

### New Jersey Department of Environmental Protection Facility Profile (General)

| <b>Contact Type: Air Permit Information Contact</b>                     |          |                        |  |  |  |  |  |  |  |
|---|----------|------------------------|--|--|--|--|--|--|--|
| Organization: INDUSTRIAL CONTAINER SERVICES, LLC Org. Type: Corporation |          |                        |  |  |  |  |  |  |  |
| Name: DOMENICA TALVACCHIO   | NJ EIN:  |                        |  |  |  |  |  |  |  |
| Title: PLANT MANAGER  |          |                        |  |  |  |  |  |  |  |
| <b>Phone:</b> ( ) - x   | Mailing  | 267 JEFFERSON St       |  |  |  |  |  |  |  |
| <b>Fax:</b> ( ) - x   | Address: | CAMDEN, NJ 08104       |  |  |  |  |  |  |  |
| <b>Other:</b> ( ) - x   |          |                        |  |  |  |  |  |  |  |
| Type:   |          |                        |  |  |  |  |  |  |  |
| Email: DOMENICA.TALVACCHIO@MAUSERPAC                                    |          |                        |  |  |  |  |  |  |  |
| Contact Type: Consultant  |          |                        |  |  |  |  |  |  |  |
| Organization: WESTON SOLUTIONS, INC.                                    |          | Org. Type: Corporation |  |  |  |  |  |  |  |
| Name: Randall Abbuhl  |          | NJ EIN:                |  |  |  |  |  |  |  |
| Title: Project Manager  |          |                        |  |  |  |  |  |  |  |
| <b>Phone:</b> (732) 417-5810 x  | Mailing  | 205 CAMPUS DRIVE       |  |  |  |  |  |  |  |
| <b>Fax:</b> ( ) - x   | Address: | EDISON, NJ 08837       |  |  |  |  |  |  |  |
| <b>Other:</b> ( ) - x   |          |                        |  |  |  |  |  |  |  |
| Type:   |          |                        |  |  |  |  |  |  |  |
| Email: r.abbuhl@westonsolutions.com                                     |          |                        |  |  |  |  |  |  |  |
| Contact Type: Fees/Billing Contact                                      |          |                        |  |  |  |  |  |  |  |
| Organization: INDUSTRIAL CONTAINER SERVIC                               | ES, LLC  | Org. Type: Corporation |  |  |  |  |  |  |  |
| Name: DOMENICA TALVACCHIO   |          | NJ EIN:                |  |  |  |  |  |  |  |
| Title: PLANT MANAGER  |          |                        |  |  |  |  |  |  |  |
| <b>Phone:</b> ( ) - x   | Mailing  | 267 JEFFERSON St       |  |  |  |  |  |  |  |
| <b>Fax:</b> ( ) - x   | Address: | CAMDEN, NJ 08104       |  |  |  |  |  |  |  |
| <b>Other:</b> ( ) - x   |          |                        |  |  |  |  |  |  |  |
| Type:   |          |                        |  |  |  |  |  |  |  |

Date: 5/1/2024

### New Jersey Department of Environmental Protection Facility Profile (General)

Contact Type: Responsible Official

Organization: INDUSTRIAL CONTAINER SERVICES, LLC

Name: DOMENICA TALVACCHIO

NJ EIN:

Title: PLANT MANAGER

Phone: ( ) - x

Mailing
Address: CAMDEN, NJ 08104

Other: ( ) - x

Type:

Email: DOMENICA.TALVACCHIO@MAUSERPAC

#### Date: 5/1/2024

### New Jersey Department of Environmental Protection Equipment Inventory

| Equip. | Facility's  | Equipment                                    | Equipment Type  | Certificate | Install | Grand-   | Last Mod.    | Equip. |
|--------|-------------|--|-----------------|-------------|---------|----------|--------------|--------|
| NJID   | Designation | Description                                  |                 | Number      | Date    | Fathered | (Since 1968) | Set ID |
| E1     | Drum Wash   | Poly Drum Wash System,,<br>manually operated | Other Equipment | PCP190002   |         |          |              |        |

### **INDUSTRIAL CONTAINER SERVICES, LLC (51924)**

Date: 5/1/2024

### New Jersey Department of Environmental Protection Emission Points Inventory

|   | PT<br>NJID | Facility's Designation | Description          | Config.   | Equiv.<br>Diam. | Height (ft.) | Dist. to<br>Prop. | Exhaus | t Temp. | (deg. F) | Exha    | aust Vol. (a | cfm)    | Discharge<br>Direction |        |
|---|------------|------------------------|----------------------|-----------|-----------------|--------------|-------------------|--------|---------|----------|---------|--------------|---------|------------------------|--------|
|   | МЛТ        | Designation            |                      |           | (in.)           | (11.)        | Line (ft)         | Avg.   | Min.    | Max.     | Avg.    | Min.         | Max.    | Direction              | Set ID |
| P | Т1         | Drum Line              | Roof vent with a fan | Rectangle | 22              | 25           | 100               | 80.0   | 60.0    | 100.0    | 3,500.0 | 0.0          | 7,000.0 | Up                     |        |

#### **INDUSTRIAL CONTAINER SERVICES, LLC (51924)**

Date: 5/1/2024

### New Jersey Department of Environmental Protection Emission Unit/Batch Process Inventory

U 1 Wash Lines Poly Drum and Poly Tote Washing System

| UOS  | Facility's  | UOS               | Operation                | Signif. | Control           | Emission | SCC(s) | Anr<br>Oper. |      | VOC   | Flov<br>(acfi |         |      | mp.  |
|------|-------------|-------------------|--------------------------|---------|-------------------|----------|--------|--------------|------|-------|---------------|---------|------|------|
| NJID | Designation | Description       | Type                     | Equip.  | <b>Device</b> (s) | Point(s) | SCC(S) | Min.         | Max. | Range | Min.          | Max.    | Min. | Max. |
| OS1  | Drum Wash   | Poly Drum Washing | Normal - Steady<br>State | E1      |                   | PT1      |        |              |      | A     | 0.0           | 7,000.0 |      |      |

#### 51924 INDUSTRIAL CONTAINER SERVICES, LLC

#### New Jersey Department of Environmental Protection Potential to Emit

Date: 5/1/2024

Subject Item: U1 Wash Lines
Operating Scenario: OS0 Summary

Step:

| Air Contaminant Category | Fugitive  | Emissions       | Emissions      | Total      | Units   | Alt. Em. |
|--------------------------|-----------|-----------------|----------------|------------|---------|----------|
| (HAPS)                   | Emissions | Before Controls | After Controls | Emissions  |         | Limit    |
| VOC (Total)              |           | 6.72000000      | 6.72000000     | 6.72000000 | tons/yr | No       |

Subject Item: U1 Wash Lines

**Operating Scenario: OS1** 

Step:

| Air Contaminant Category<br>(HAPS) | Fugitive<br>Emissions | Emissions<br>Before Controls | Emissions<br>After Controls | Total<br>Emissions | Units | Alt. Em.<br>Limit |
|------------------------------------|-----------------------|------------------------------|-----------------------------|--------------------|-------|-------------------|
| HAPs (Total)                       |                       | D                            | D                           | D                  | lb/hr | No                |
| VOC (Total)                        |                       | 3.20000000                   | 3.20000000                  | 3.20000000         | lb/hr | No                |

# 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 E2 (Other Equipment) Print Date: 9/20/2024

| Make:  | Custom-built by ICS   |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Manufacturer:  | Custom-built by ICS   |  |  |  |  |  |
| Model:   | Custom-built by ICS   |  |  |  |  |  |
| Equipment Type:  | Washing system including water pumps and nozzles, PVC pipelines and two rinse stations.   |  |  |  |  |  |
| Capacity:<br>Units:  | 15.00 other units   |  |  |  |  |  |
| Description:   | tote/hour   |  |  |  |  |  |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?  Yes  No  No  |  |  |  |  |  |
| Comments:  | Poly Tote Wash System is a mannually operated container washing system including two washing stations. Emissions are expected to be released when the totes are uncapped and washed with water. Emissions are the residue vapor inside the totes. |  |  |  |  |  |

# 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 E3 (Other Equipment) Print Date: 9/20/2024

| Make:  | Custom-built by ICS  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Manufacturer:  | Custom-built by ICS  |  |  |  |  |  |
| Model:   | Custom-built by ICS  |  |  |  |  |  |
| Equipment Type:  | Custom built, including mannually operated rags and cleaning solution  |  |  |  |  |  |
| Capacity:  | 936.00   |  |  |  |  |  |
| Units:   | gal/yr 🔻   |  |  |  |  |  |
| Description:   |  |  |  |  |  |  |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?  Yes  No  No  No   |  |  |  |  |  |
| Comments:  | E3-Wipe Station is a manually operated poly drum surface wipe station. The wiping process is a manual surface cleaning of poly drums using rags and cleaning solvent to improve appearance of the drum exterior. |  |  |  |  |  |

# 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 E1 (Other Equipment) Print Date: 9/20/2024

| Make:  | Custom-built by ICS  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Manufacturer:  | Custom-built by ICS  |  |  |  |  |  |
| Model:   | Custom-built by ICS  |  |  |  |  |  |
| Equipment Type:  | Washing system including water pumps, PVC pipelines, six spray nozzles and vaccumes  |  |  |  |  |  |
| Capacity:  | 80.00  |  |  |  |  |  |
| Units:   | other units  |  |  |  |  |  |
| Description:   | drum/hour  |  |  |  |  |  |
| Have you attached a diagram showing the location and/or the configuration of this equipment? | Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?  Yes  No  No   |  |  |  |  |  |
| Comments:  | Poly Drum Wash System is a mannually operated washing system including six water spray nozzles. Emissions are expected to be released when poly drums are uncapped and washed by water from nozzles. Emissions are the residue vapor inside the drums. |  |  |  |  |  |

# 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 U1 OS1 (Other Equipment) Print Date: 9/20/2024

| Volume of Gas Discharged |       |
|--------------------------|-------|
| from this Source (acfm): | 30.00 |

## 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 U1 OS1 (Raw Material) Print Date: 9/20/2024

| Raw Material    | CAS<br>Number | Physical State | Molecular Weight (lbs/lbs-mole) | Does the Material Contain VOC? | Weight<br>Fraction (%) | Vapor Pressure @<br>70°F (mmHg) | Organic Density | Units    |
|-----------------|---------------|----------------|---------------------------------|--------------------------------|------------------------|---------------------------------|-----------------|----------|
| Organic Liquids |               | Liquid ▼       |                                 | Yes ▼                          |                        |                                 |                 | lb/gal ▼ |

# 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 U1 OS2 (Other Equipment) Print Date: 9/20/2024

| Volume of Gas Discharged |       |
|--------------------------|-------|
| from this Source (acfm): | 28.00 |

## 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 U1 OS2 (Raw Material) Print Date: 9/20/2024

| D:    | Date: | 0/00 | 1000  |
|-------|-------|------|-------|
| Print | Date: | 9/20 | /2024 |

| Raw Material    | CAS<br>Number | Physical State | Molecular Weight (lbs/lbs-mole) | Does the Material Contain VOC? | Weight<br>Fraction (%) | Vapor Pressure @<br>70°F (mmHg) | Organic Density | Units |
|-----------------|---------------|----------------|---------------------------------|--------------------------------|------------------------|---------------------------------|-----------------|-------|
| Ethylene glycol | 00107-21-1    | Liquid         | 62.07                           | Yes ▼                          |                        |                                 |                 |       |
| Organic Liquids |               | Liquid         |                                 | Yes ▼                          |                        |                                 |                 |       |

# 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 U1 OS3 (Other Equipment) Print Date: 9/20/2024

| Volume of Gas Discharged |       |
|--------------------------|-------|
| from this Source (acfm): | 30.00 |

## 51924 INDUSTRIAL CONTAINER SERVICES - CRC, LLC PCP240001 U1 OS3 (Raw Material) Print Date: 9/20/2024

| Raw Material             | CAS<br>Number | Physical State | Molecular Weight (lbs/lbs-mole) | Does the Material Contain VOC? | Weight<br>Fraction (%) | Vapor Pressure @<br>70°F (mmHg) | Organic Density | Units |
|--------------------------|---------------|----------------|---------------------------------|--------------------------------|------------------------|---------------------------------|-----------------|-------|
| Non-HAP Cleaning Solvent |               | Liquid ▼       |                                 | Yes ▼                          |                        |                                 |                 | ▼     |

|                    |        | 00/07/00 | 00/07/00 | 00/07/00 |         |        |
|--------------------|--------|----------|----------|----------|---------|--------|
| Date               |        | 06/27/23 | 06/27/23 | 06/27/23 |         |        |
| Run ID             |        | 1 M 1-4  | 2 M 1-4  | 3 M 1-4  |         |        |
|                    |        |          |          |          |         |        |
| Start Time         |        | 13:00    | 14:50    | 16:39    |         |        |
| Finish Time        |        | 14:00    | 15:50    | 17:39    |         |        |
|                    |        |          |          |          |         |        |
| Parameter          | UOM    |          |          | _        | Average | _      |
| Oxygen             | %      | 20.93    | 20.92    | 20.92    | 20.92   |        |
| Carbon Dioxide     | %      | 0.02     | 0.04     | 0.03     | 0.03    |        |
| Moisture           | %      | 3.90     | 3.90     | 3.70     | 3.83    |        |
| Temperature        | °F     | 85.8     | 86.8     | 84.0     | 85.5    |        |
| Volumetric Flow    | ACFM   | 5,401    | 5,374    | 5,356    | 5,377   |        |
| Volumetric Flow    | DSCFM  | 4,992    | 4,963    | 4,985    | 4,980   |        |
| Sample Volume      | dscf   | 31.596   | 31.515   | 31.761   | 31.624  |        |
|                    |        |          |          |          |         | Permit |
| Emission Rates     |        |          |          |          |         | Limits |
| (as Methane)       |        |          |          |          |         |        |
| Total Hydrocarbons | ppmvw  | 324.1    | 295.6    | 310.4    | 310.0   |        |
| Total Hydrocarbons | ppmvd  | 337.3    | 307.5    | 322.3    | 322.4   |        |
| Mass Flow          | lbs/hr | 4.19     | 3.80     | 4.00     | 3.99    | 2.33   |
|                    |        |          |          |          |         |        |

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 From:
 Abbuhl, Randall L.

 To:
 Yalartai, Bennett [DEP]

Cc: Peter DiPasca; Deal, Diann; Lehberger, Art [DEP]; Agrawal, Sunila [DEP]

**Subject:** [EXTERNAL] RE: RE: Industrial Container Services - Program Interest ID 51924; PCP 240001

**Date:** Tuesday, May 14, 2024 3:55:28 PM

Attachments: image008.pnq image001.pnq

Bennett – please see Table 1 included with the cover letter attached with the RADIUS permit application submittal for backup emission calculations. The proposed hourly emission rate was determined from the average stack testing rate of 3.99 lbs/hour and average processing rate of 82 drums per hour for an emission factor of 0.0489 lbs VOC/drum processed:

3.99 lbs VOC/hour / 82 drums/hour = 0.0489 lbs VOC/hour

The proposed maximum hourly VOC emission rate of 3.2 lbs/hour was determined based on the revised maximum processing rate of 65 drums per hour emission:

65 lbs/drum processed x 0.0489 lbs VOC/drum processed = 3.2 lbs VOC/hour

The Subchapter 16.16 Range was determined based on the VOC stack concentration from the stack testing and the maximum VOC vapor pressure from the process as determined in the previous permit application (PCP190002) – from Table 1:

#### Determination of 7:27-16.16 Range:

Ethanol <1.0 psi vapor pressure (max per permit application

PCP190002 dated 8/28/2019)

0.034% percent by volume exhaust (max from stack test of 337 ppmvd)

3,500-7,000 CFM exhaust from sources

NJAC 7:27-16.16 Range A

Allowable 3.5 lbs VOC/hour

Thus, the proposed maximum VOC emission rate of 3.2 lbs/hour is in compliance with the maximum allowable VOC emission rate of 3.5 lbs/hour for Range A per NJAC 7:27-16.16.

Please let me know if you have any questions or need any further information.

Thank you for your efforts in processing this permit application.

Randy Abbuhl Weston Solutions, Inc. 609-577-2343

From: Yalartai, Bennett [DEP] <Bennett.Yalartai@dep.nj.gov>

**Sent:** Tuesday, May 14, 2024 2:00 PM

To: Abbuhl, Randall L. <R.Abbuhl@WestonSolutions.com>

Cc: Peter DiPasca < peter.dipasca@mauserpackaging.com >; Deal, Diann < Diann.Deal@WestonSolutions.com >; Lehberger, Art [DEP]

<a>Art.Lehberger@dep.nj.gov>; Agrawal, Sunila [DEP] <Sunila.Agrawal@dep.nj.gov></a>
<a href="mailto:Subject">Subject:</a> RE: RE: Industrial Container Services - Program Interest ID 51924; PCP 240001

\*\*\* External Message \*\*\* -- PROBE message before clicking links or opening attachments.

Hi Randall,

The proposed permit medication is missing a compliance determination of the emissions standards of VOC rule N.J.A.C. 7:27-16.16 (Sub 16.16). Therefore, pls review Sub16.16 and submit a compliance determination within the context of the RACT maximum allowable VOC emission rate, based on the VOC average stack test result of 3.99 lb/hr.

Pls submit the requested info asap, on/or before Friday, May, 17, 2024.

Thanks,

Bennett M. Yalartai **Environmental Engineer 3 Bureau of Stationary Sources** 

Tel: 609-633-8253

Email: bennett.yalartai@dep.nj.gov http://www.nj.gov/dep/ages/index.html

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From: Abbuhl, Randall L. < R. Abbuhl@WestonSolutions.com >

Sent: Monday, May 13, 2024 3:44 PM

To: Yalartai, Bennett [DEP] < Bennett. Yalartai@dep.nj.gov>

Cc: Peter DiPasca peter.dipasca@mauserpackaging.com>; Deal, Diann Diann.Deal@WestonSolutions.com>

Subject: [EXTERNAL] RE: Industrial Container Services - Program Interest ID 51924; PCP 240001

Bennett - I was checking on-line today to make sure that the permit application for the drum washing line at the Industrial **Container Services** (ISC) facility was uploaded and in the NJDEM system. I discovered that the application is identified as having an Administrative Deficiency. If you

could let me know

what the issue is.

we can work to

correct the

deficiency as

expeditiously as

possible. Feel free

to reach out to me

if you have any

other questions

while reviewing the

permit application.

Thanks

Randy Abbuhl Weston Solutions 609-577-2343

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