OHIO EPA
TIME CRITICAL REMOVAL ACTION
REFERRAL PACKAGE

Crest Rubber Company
C.F. Capital Investment, LTD dba C.F. Capital Investment, Corp.

Alliance Facility:
633 North Union Avenue
Alliance, Ohio 44601
EPA ID no.: OHR000203281

Chestnut Street Facility:
645 South Chestnut Street
Ravenna, Ohio 44266
EPA ID no.: OHD041633512

Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

November 9, 2016

Jim Augustine
Chief, Response Section 1
Emergency Response Branch 1
U.S. EPA Region V
25089 Center Ridge Road
Westlake, OH 44145-4170

Re: Crest Rubber Company
General Correspondence
RCRA C - Hazardous Waste
Stark County
OHR000203281

Subject: Time Critical Removal Request

Dear Mr. Augustine:

Ohio EPA requests U.S. EPA's assistance in evaluating the Crest Rubber Company and C.F. Capital Investment, Corp. facilities located at 633 North Union Avenue in Alliance (Alliance Facility) and 645 South Chestnut Street in Ravenna (Chestnut Street Facility) for a time critical removal action. The properties are owned by C.F. Capital Investment, LTD dba C.F. Capital Investment, Corp. with the facilities being operated by Crest Rubber Company. Numerous unevaluated wastes are stored at each of these Facilities.

Alliance Facility:

The approximate 2.5-acre Alliance Facility is bounded by residential and commercial properties and a railroad to the north, residential properties to the south, commercial properties to the west and residential and commercial properties to the east. Approximately 5,800 people reside within one mile of the Facility.

During an October 21, 2016 inspection at the Facility, Ohio EPA documented approximately 500 55-gallon drums and approximately 1,000 smaller containers of abandoned wastes. Some of the containers displayed labels indicative of ignitable (D001), toxic (methyl ethyl ketone-D035) and listed (acetone-U002; methyl ethyl ketone-U159) hazardous wastes as described in OAC rules 3745-51-21, 3745-51-24 and 3745-51-33. In addition, numerous containers were in poor condition as evidenced by areas of released waste onto the ground. A copy of the Notice of Violation (NOV) letter concerning the inspection is available at: http://edocpub.epa.ohio.gov/publicportal/ViewDocument.aspx?docid=507616. The potential exists for additional releases from the containers through trespassing, acts of vandalism, weather conditions and precipitation. Please refer to the October 26, 2016 request for assistance from the Alliance Fire Department for information related to building conditions and fire concerns at the Facility.

Chestnut Street Facility:

The approximate four-acre Chestnut Street Facility is bounded by residential and commercial properties to the north, a railroad to the south, residential and commercial properties to the west and an industrial property to the east. Approximately 8,200 people reside within one mile of the Facility.

During an October 25, 2016 inspection at the Facility, Ohio EPA documented over 250 pallets of abandoned wastes. These pallets contained, amongst other things, less-than one-gallon, one-gallon, 5-gallon, 30-gallon and 55-gallon sized containers, in addition to bags of solids, powders and granular materials. A copy of the NOV letter concerning the inspection is available at: http://edocpub.epa.ohio.gov/publicportal/ViewDocument.aspx?docid=510673.

Crest Rubber Company and C.F. Capital Investment Corp.

In April 2015, Huntington National Bank obtained a judgment against Crest Rubber Company and C.F. Capital Investment Corp., in excess of $550,000 related to a cognovit note (Portage County Court, case number 2015CV00291). In addition, the Court appointed John Hillyer of the Hillyergroup, LLC as the Receiver to the Crest Rubber Company and C.F. Capital Investment Corp. real estate, property and assets. In December 2015, the Court allowed the Receiver to abandon the Alliance and Chestnut Street Facilities as part of the proceedings. Control of these facilities reverted back to David Clark of Crest Rubber Company and C.F. Capital Investment Corp.

Conclusion:

Ohio EPA plans to forward a Time Critical Removal Referral Package which will include additional information concerning the Alliance and Chestnut Street Facilities. In the interim, please refer to previous information that has been sent to you concerning these Facilities.

Ohio EPA remains concerned due to the hazardous wastes and facility conditions at the Alliance Facility, and the amount of unevaluated wastes at the Alliance and Chestnut Street Facilities. In addition, as evidenced by the Receivership proceedings, Crest Rubber Company and C.F. Capital Investment Corp. may have a financial inability to complete all required cleanup activities at these Facilities.

I hereby request that U.S. EPA conduct an assessment to determine the applicability of a time critical removal action. Ohio EPA requests that it be notified of any activities conducted at the Alliance and Chestnut Street Facilities. If you have any questions or require additional information, please contact Frank Zingales of Ohio EPA's Northeast District Office at (330) 963-1108.

Sincerely,

Craig W. Butler
Director

ec: Natalie Oryshkewych, DERR, NEDO
Mitch Mathews, DERR, CO
Andrea Smoktonowicz, Legal, CO
Marc Glasgow, DERI, CO

Crest Rubber Company
General Correspondence
RCRA C - Hazardous Waste
Portage County
OHD041633512

OHIO EPA
TIME CRITICAL REMOVAL ACTION
REFERRAL PACKAGE

1. Facility Location and Responsible Party Information

A. Facility Name and Location

Crest Rubber Company (Crest Rubber)

Alliance Facility:
633 North Union Avenue
Alliance, Ohio 44601
EPA ID no.: OHR000203281

Chestnut Street Facility:
645 South Chestnut Street
Ravenna, Ohio 44266
EPA ID no.: OHD041633512

B. Facility Operator:

Alliance and Chestnut Street Facilities – Crest Rubber Company
Statutory Agent – David H. Clark, 3267 Old Forge Road, Kent, Ohio 44240
Counsel – Thomas Buchanan, Esq., 206 S. Meridian St.,
Ravenna, OH 44266
(330) 296-7152
tbuchananlaw@yahoo.com

C. Property Owner:

Alliance Facility

Parcel ID nos.: 109213, 110258, 110259, 113036, 113641 and 113642.

C.F. Capital Investment, LTD dba C.F. Capital Investment, Corp.
Statutory Agent – David H. Clark, 6408 Newton Falls Road,
Ravenna, Ohio 44266
Counsel – Thomas Buchanan, Esq., 206 S. Meridian St.,
Ravenna, OH 44266
(330) 296-7152
tbuchananlaw@yahoo.com

Chestnut Street Facility

Parcel ID nos.: 31-366-24-00-027-000, 31-366-24-00-028-000
31-366-24-00-029-000, 31-366-24-00-030-000
31-366-24-00-031-000, 31-366-24-00-032-000
31-366-24-00-033-000, 31-366-24-00-033-001
31-366-24-00-034-000, 31-366-24-00-036-000
31-366-24-00-037-000, 31-366-24-00-038-000
31-366-24-00-039-000

C.F. Capital Investment, LTD dba C.F. Capital Investment, Corp.
Statutory Agent – David H. Clark, 6408 Newton Falls Road,
Ravenna, Ohio 44266
Counsel – Thomas Buchanan, Esq., 206 S. Meridian St.,
Ravenna, OH 44266
(330) 296-7152
tbuchananlaw@yahoo.com

According to counsel for Steven Clark (son of David Clark), David Clark is incapacitated due to illness. Steven Clark has power of attorney for his father's matters. Contact information for Steven Clark:
30-B Northwest Ave., Suite 110, P.O. Box 52, Tallmadge Ohio 44278
(330) 633-7713
sclark@ohiohealthbenefits.net

Colin Skinner, Oby Kramer Skinner – counsel for Steven Clark
789 W. Market, Akron, Ohio 44303
(330) 572-4354
CSkinner@OKSlaw.com

D. Brief description of steps taken to compel responsible parties to conduct site remediation:

Alliance Facility

On October 21, 2016, Ohio EPA conducted an inspection at the Alliance Facility. During the inspection, Ohio EPA documented over 500 55-gallon drums and approximately 1,000 smaller containers of rubber related materials abandoned at the Facility. In addition, Ohio EPA observed releases onto the ground from the containers, as well as liquids in the press pits at the Facility. On October 27, 2016, Ohio EPA issued a Notice of Violation (NOV) letter to Crest Rubber and C.F. Capital. The NOV identified the following violations of Ohio hazardous waste laws and regulations:

- Unlawful hazardous waste storage activities, and
- Failure to evaluate waste.

No response to the NOV has been received by Ohio EPA.

The Alliance Fire Department previously sent correspondence to David Clark of Crest Rubber concerning building conditions and fire concerns. Please refer to the Alliance Fire Department's October 26, 2016 request for assistance to U.S. EPA for information related to these concerns.

Chestnut Street Facility

On October 25, 2016, Ohio EPA conducted an inspection of the Chestnut Street Facility. During the inspection, Ohio EPA documented over 250 pallets of abandoned wastes. These pallets contained, amongst other things, less-than one-gallon, one-gallon, 5-gallon, 30-gallon and 55-gallon sized containers, in addition to bags of solids, powders and granular materials. On November 2, 2016, Ohio EPA issued a NOV letter to Crest Rubber and C.F. Capital. The NOV identified that Crest Rubber/C.F. Capital failed to evaluate the aforementioned wastes at the Facility. No response to the NOV has been received by Ohio EPA.

Ohio EPA remains concerned due to conditions at the Facilities and the owner/operator's potential financial inability to complete all required cleanup activities.

2. Site Description and Other Pertinent Information

Site Description

Alliance Facility

A. Brief description of past or present operations and how wastes were generated:

The Alliance Facility was operated by Crest Rubber to manufacture rubber mats.

B. Site Characteristics:

The Alliance Facility consists of three buildings totaling approximately 65,000 square feet located on approximately 2.5 acres.

C. Quantity and type of wastes and/or hazardous substances:

During the October 21, 2016 inspection, Ohio EPA documented over 500 55-gallon drums and approximately 1,000 smaller containers of rubber related material abandoned at the Facility. The following containers displayed labels indicative of the following hazardous waste:

- One 55-gallon drum of methyl ethyl ketone, which is an ignitable (D001), toxic (D035, methyl ethyl ketone) and listed (U159, methyl ethyl ketone) hazardous waste, as defined in OAC rules 3745-51-21, 3745-51-24 and 3745-51-33;
- One 55-gallon drum of acetone, which is an ignitable (D001) and listed (U002, acetone) hazardous waste, as defined in OAC rules 3745-51-21 and 3745-51-33;
- Two 30/40-gallon fiber drums of Dicup 40C (contains organic peroxide), which is an ignitable (D001) hazardous waste, as defined in OAC rule 3745-51-21.
- One 30/40-gallon fiber drum of VOL-Cup 40 KE (contains an organic peroxide), which is an ignitable (D001) hazardous waste, as defined in OAC rule 3745-51-21.

D. Analytical data or other documentation on chemical characterization of wastes present:

Ohio EPA's inspections revealed the presence of ignitable (D001) hazardous waste, as defined in OAC rule 3745-51-21. In particular, containers displayed labels indicative of organic peroxides and oxidizers. In addition, Ohio EPA's sample results from five containers (two 5-gallon and three 55-gallon) identified the presence of characteristic hazardous waste (i.e., ignitable and/or TCLP VOCs as defined in OAC rules 3745-51-21 and 3745-51-24). See Attachment 4 for the analytical report and data summary table.

E. Storage / condition of containers and wastes:

Most containers are poorly organized/stored. In addition, some containers are in poor condition as evidenced by their deteriorated state and releases of waste. Due to compromised building conditions and roof leaks, some containers are exposed to weather conditions and precipitation.

F. Proximity of population and population density:

The site is bounded by residential and commercial properties and a railroad to the north, residential properties to the south, commercial properties to the west and residential and commercial properties to the east. Approximately 5,800 people reside within one mile of the Facility.

<u>Chestnut Street Facility</u>

A. Brief description of past or present operations and how wastes were generated:

The Chestnut Street Facility was operated by Crest Rubber for storage purposes. In addition, a flea market is operated on the weekends.

B. Site Characteristics:

The facility consists of three buildings with multiple floors totaling approximately 59,000 square feet, located on approximately four acres.

C. Quantity and type of wastes and/or hazardous substances:

During the October 25, 2016 inspection, Ohio EPA documented over 250 pallets of abandoned wastes. These pallets contained, amongst other things, less-than one-gallon, one-gallon, 5-gallon, 30-gallon and 55-gallon sized containers, in addition to bags of solids, powders and granular materials. These pallets were located in multiple areas of the Facility and can be broadly categorized into two waste types, paint related materials and rubber related materials. The areas of the Facility where abandoned wastes were documented include:

- First floor of the A building where the vacant, former apartments are located, section A (A-1);
- First floor of the main warehouse, section B (B-1);
- Second floor of the main warehouse, section B (B-2);
- Fourth floor of the main warehouse, section B (B-4);
- Second floor of the main warehouse, section C (C-2);
- Third floor of the main warehouse, section C (C-3);
- Fourth floor of the main warehouse, section C (C-4); and
- Orange Building.

E. Analytical data or other documentation on chemical characterization of wastes present:

On November 2, 2016, Ohio EPA issued a NOV letter to Crest Rubber and C.F. Capital. The NOV requested that Crest Rubber/C.F. Capital provide characterization information for the wastes at the Facility. No response to the NOV has been received by Ohio EPA.

E. Storage / condition of containers and wastes:

Most containers are poorly organized/stored.

F. Proximity of population and population density:

The Chestnut Street Facility is bounded by residential and commercial properties to the north, a railroad to the south, residential and commercial properties to the west and an industrial property to the east. Approximately 8,200 people reside within one mile of the Facility.

Other Pertinent Information

In April 2015, Huntington National Bank obtained a judgment against Crest Rubber Company and C.F. Capital Investment Corp., in excess of $550,000 related to a cognovit note (Portage County Court, case number 2015CV00291). In addition, the Court appointed John Hillyer of the Hillyergroup, LLC as the Receiver to the Crest Rubber Company and C.F. Capital Investment Corp. real estate, property and assets. In December 2015, the Court allowed the Receiver to abandon the Alliance and Chestnut Street Facilities as part of the proceedings. Control of these facilities reverted back to David Clark of Crest Rubber Company and C.F. Capital Investment Corp. See Attachment 5.

Crest Rubber employees indicated that some of the materials at the Alliance, Chestnut Street and 6408 Newton Falls Road (currently operating) Facilities originated from Firestone.

A documents search at the Crest Rubber facility located at 6408 Newton Falls Road, Ravenna, Ohio revealed a facsimile dated June 27, 1996 from Bridgestone/Firestone which discusses the shipment of uncured rubber, polymers and rubber chemicals to Crest Rubber for recycling. In addition, Ohio EPA located shipping papers from Bridgestone/Firestone, 1200 Firestone Parkway, Akron, Ohio 44317; Eveready Battery Company, Inc., 1280 W. 73rd St., Cleveland, Ohio 44102; Chemionics Corporation, 390 S. Munroe Falls Road, Tallmadge, Ohio 44278; Sparton Enterprises, Inc., 3717 Clark Mill Road, Barberton, Ohio 44203; and Chemical Analytics, Inc., 29959 Beverly, Romulus, Michigan 48174. In particular, the shipping papers from Bridgestone/Firestone indicated the materials were being sent to Crest Rubber for recycling. See Attachment 7.

Ohio EPA observed containers at the Alliance and Chestnut Street Facilities with original shipping labels addressed to Bridgestone/Firestone, 1200 Firestone Parkway, Akron, Ohio and Bridgestone/Firestone, 1670 Firestone Parkway, Akron, Ohio. Also, Ohio EPA observed containers at the 6408 Newton Falls Road facility with original shipping labels addressed to Bridgestone/Firestone, 1200 Firestone Parkway, Akron, Ohio. In addition, Ohio EPA observed containers at the Alliance Facility with original shipping labels addressed to Chemionics Corp., 390 S. Munroe Falls Road, Tallmadge, Ohio.

The documents search also revealed information pertaining to the Alliance Facility and reporting requirements under the Emergency Planning and Community Right-to-Know Act (EPCRA) / Superfund Amendments and Reauthorization Act (SARA) Title III. This information indicated the historical presence of hazardous substances and extremely hazardous substances which may be currently on-site. See Attachment 6.

3. Threats to Public Health and the Environment

A. Description of potential exposure to humans, animals or the food chain from hazardous substances or contaminants:

The Alliance Facility is accessible through broken windows on the buildings. Potential exposure to humans (trespassers) exists since released waste has been observed at the interior of the Alliance Facility.

B. Actual or potential for releases:

Deteriorated containers with released waste have been observed at the Alliance Facility. The potential exists for additional releases from containers through trespassing, acts of vandalism and building conditions/precipitation.

C. Threat of fire or explosion:

There is a potential threat of fire or explosion due to the ignitable (D001) hazardous waste present at the Alliance Facility. Please refer to the Alliance Fire Department's October 26, 2016 request for assistance to U.S. EPA for information related to additional fire concerns.

4. Assessment of Environmental Hazards and Proposed Response Actions

Description of hazards (real or potential) posed by site and what actions should be undertaken to reduce or eliminate hazard:

Uncontrolled releases of hazardous substances at the site may pose a threat to human health and the environment. A threat of fire or explosion from on-site sources may exist due to the ignitable (D001) hazardous waste present at the facility.

To prevent further releases or exposure to hazardous substances and to eliminate the fire hazard, all hazardous substances should be adequately characterized, removed and disposed.

5. Recent Chronology of Events

Date	Description
10/21/2016	Ohio EPA hazardous waste inspection at the Alliance Facility.
10/25/2016	Ohio EPA hazardous waste inspection at the Chestnut Street Facility.
10/26/2016	Alliance Fire Department request for assistance to U.S. EPA concerning the Alliance Facility.
10/27/2016	Ohio EPA NOV letter for the Alliance Facility.

10/31/2016	Oby, Kramer, Skinner response on behalf of Steven Clark to Ohio EPA's October 27, 2016 NOV letter.
11/2/2016	Ohio EPA NOV letter for the Chestnut Street Facility.
11/3/2016	Ohio EPA follow-up inspection at the Crest Rubber facility located at 6408 Newton Falls Road, Ravenna, Ohio.
11/15/2016	Ohio EPA follow-up inspection with sampling at the Alliance Facility.
11/18/2016	Ohio EPA records review at the Crest Rubber facility located at 6408 Newton Falls Road, Ravenna, Ohio.

6. Index of Documents

Attachment 1: Figures depicting location and parcel ownership information for the Alliance and Chestnut Street Facilities.

Attachment 2: Ohio EPA NOV letters dated October 27 and November 2, 2016 for the Alliance and Chestnut Street Facilities. Oby, Kramer, Skinner response dated October 31, 2016.

Attachment 3: Select Ohio EPA photographs taken during the inspections at the Alliance and Chestnut Street Facilities.

Attachment 4: Analytical data, including data summary from the sampling conducted at the Alliance Facility on November 15, 2016.

Attachment 5: Case information concerning the Huntington National Bank judgment against Crest Rubber Company and C.F. Capital Investment Corp. (Portage County Common Pleas Court, case number 2015CV00291).

Attachment 6: Documents related to the Alliance Facility and reporting requirements under EPCRA / SARA Title III.

Attachment 7: Documents related to the shipments of rubber related materials to Crest Rubber.

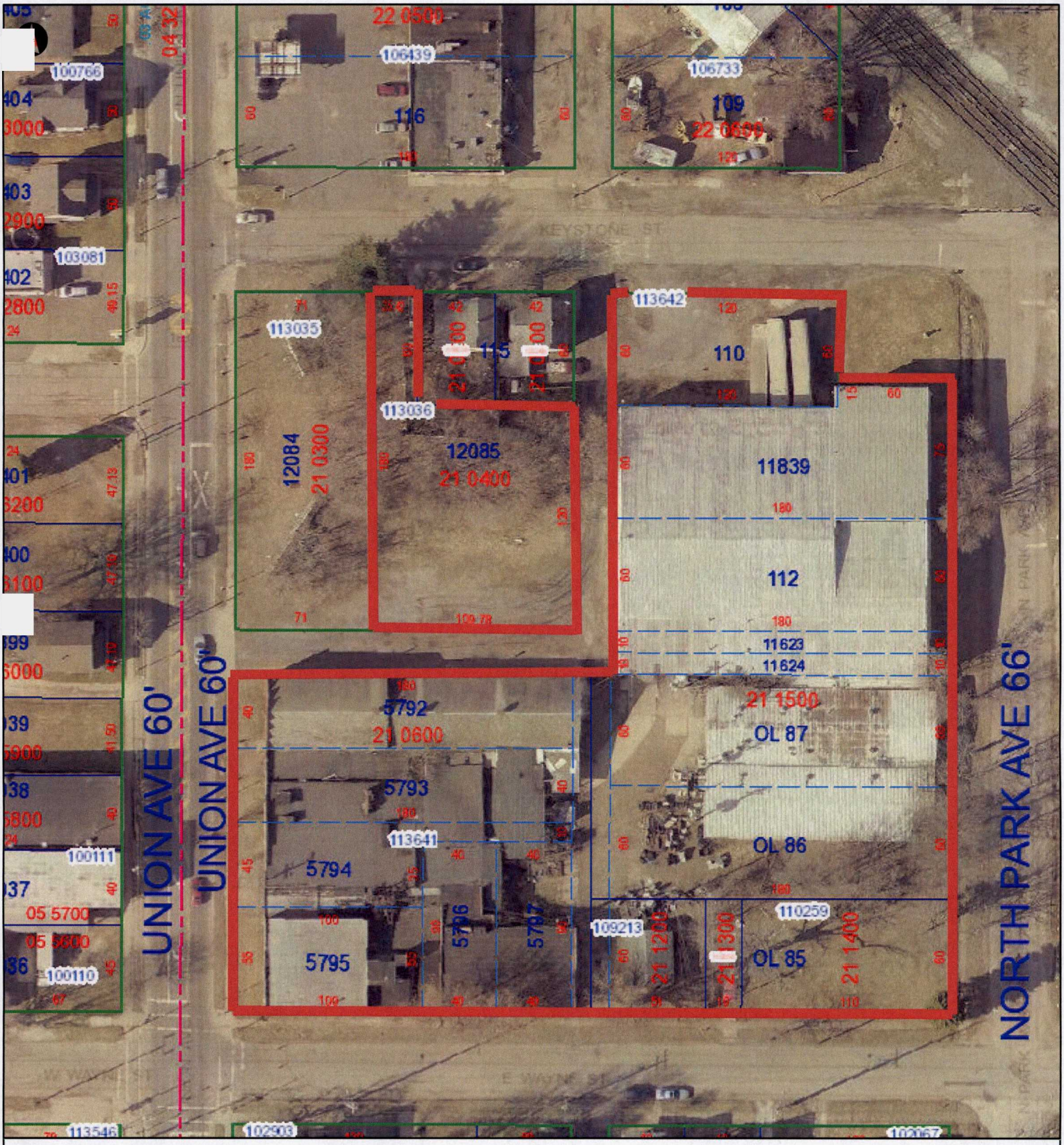
7. Ohio EPA Contacts

Frank Zingales – Ohio EPA, DERR: (330) 963-1108 or
frank.zingales@epa.ohio.gov

Marlene Kinney – Ohio EPA, DERR: (330) 963-1162 or
marlene.kinney@epa.ohio.gov

Crest Rubber / C.F. Capital Facility
633 N. Union Ave.
Alliance, Ohio

Stark GIS



Crest Rubber / C.F. Capital Facility
633 N. Union Ave.
Alliance, Ohio

Stark GIS

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31-366-24-00-0
31-366-24-00-033-001
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Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

October 27, 2016

Mr. David Clark
Crest Rubber and C.F. Capital Investments
3267 Old Forge Road
Kent, Ohio 44240

Re: Crest Rubber Company and C.F. Capital Investment, Corp.
Notice of Violation (NOV)
NOV
RCRA C - Hazardous Waste
Stark County
OHR000203281

Hazardous Waste Program - DERR

Subject: Complaint, FCI, Notice of Violation

Dear Mr. Clark:

On October 21, 2016, the Ohio Environmental Protection Agency (Ohio EPA) met with your son, Steve Clark, and the Alliance Fire Department at the Crest Rubber Company (Crest Rubber) facility, which is owned by C.F. Capital Investment Corporation, and is located at 633 North Union Avenue, Alliance, Ohio (Facility). Ohio EPA was represented by Marlene Kinney, Frank Zingales, and Ron Fodo during Ohio EPA's complaint investigation. Steve Clark represented you. Chief Jason Hunt represented the Alliance Fire Department.

The goal of Ohio EPA's Focused Compliance Inspection (FCI) was to investigate the validity of the complaint (# 7915) filed by the Alliance Fire Department with Ohio EPA, which states the following: Crest Rubber is a former manufacturing facility that has not operated for a few years. Inside the two buildings are numerous 55 gallon containers that are rusty and in questionable condition. Some of these drums have "hazardous material" markings on the containers.

In addition to investigating the complaint, Ohio EPA evaluated Crest Rubber's compliance with Ohio's Hazardous Waste laws as found in Chapter 3734. of the Ohio

Revised Code (ORC) and the rules in Chapter 3745 of the Ohio Administrative Code (OAC).

Findings

Ohio EPA noted that the complaint was valid and observed the following violations of Ohio's hazardous waste laws and regulations. In order to bring your company into compliance, we recommend promptly addressing these violations within 14 days of your receipt of this letter.

1. Accumulation Beyond 180 Days, Ohio Revised Code (ORC) § 3734.02(E) and (F):

OAC rule 3745-52-34(F) provides that a small quantity generator of hazardous waste who accumulates hazardous waste for more than one hundred eighty days, is an operator of a storage facility and is subject to the requirements of Chapters 3745-54 to 3745-57, 3745-65 to 3745-69, 3745-205, and 3745-256 of the Administrative Code and the permit requirements of rules 3745-50-40 to 3745-50-235 of the Administrative Code unless the owner or operator has been granted an extension. Crest Rubber has not been granted such an extension to the one hundred eighty-day period.

ORC § 3734.02(E) and (F) state that no person shall establish or operate a hazardous waste facility without a permit and that no person shall store, treat, or dispose of hazardous waste except at a facility with a hazardous waste permit.

Crest Rubber violated ORC § 3734.02(E) and (F) by storing its hazardous waste beyond 180 days without obtaining a hazardous waste permit at the Facility. During the inspection, Ohio EPA observed many containers that were in deteriorating conditions with labelling that was unclear or missing. We observed, at least, the following:

a. One (55 gallon) drum of Methyl Ethyl Ketone, which is an ignitable (D001), toxic (D035, methyl ethyl ketone) and listed (U159, methyl ethyl ketone) hazardous waste, as defined in OAC rules 3745-51-21, 3745-51-24 and 3745-51-33.
b. One (55 gallon) drum of Acetone, which is an ignitable (D001) and listed (U002, acetone) hazardous waste, as defined in OAC rules 3745-51-21 and 3745-51-33).
c. Two (30-40 gallon) fiber drums of Dicup 40C (contains organic peroxide), which is an ignitable (D001) hazardous waste, as defined in OAC rule 3745-51-21.
d. One (30-40 gallon) fiber drum of VOL-Cup 40 KE (contains an organic peroxide), which is an ignitable (D001) hazardous waste, as defined in OAC rule 3745-51-21.

Since Crest Rubber violated ORC § 3734.02(E) and (F), Crest Rubber is subject to all applicable general facility standards found in OAC chapters 3745-54 and 3745-55. Additionally, at any time Ohio EPA may assert its right to have Crest Rubber begin facility-wide cleanup pursuant to the Corrective Action process under Ohio law.

Due to the unlawful establishment and operation of a hazardous waste facility, Crest Rubber is subject to conducting closure at the Facility, pursuant to OAC rules 3745-55-10 through 3745-55-20. Closure is the cleanup procedure for all areas where hazardous waste has been managed. Generally, closure activities entail the following: removing and management of all waste and residues, removing or decontaminating contaminated equipment and structures, remediating contaminated soils and ground water if necessary and managing all wastes generated from these activities in accordance with the hazardous waste laws. Furthermore, the closure process requires the submittal and approval of a closure plan, which ensures that the closure performance standards set forth in OAC rule 3745-55-11 are met. The closure performance standards require removal and remediation of any contamination in these areas to prevent it from posing a risk to human health and the environment. The closure plan is normally prepared in accordance with Ohio EPA's Closure Plan Review Guidance for RCRA Facilities. While a closure plan is not required at this time, one may be required in the future. If you have questions concerning the closure process, please contact me.

Since Crest Rubber violated ORC § 3734.02(E) and (F), Crest Rubber is subject to all applicable general facility standards found in OAC chapters 3745-54 and 3745-55. Additionally, at any time Ohio EPA may assert its right to have Crest Rubber begin facility-wide cleanup pursuant to the Corrective Action process under Ohio law.

To begin resolving these violations, Ohio EPA recommends that Crest Rubber immediately send this hazardous waste offsite to an authorized facility for applicable treatment and disposal.

2. **OAC Rule 3745-52-11, Hazardous Waste Determination**: Any person who generates a waste must determine if that waste is a hazardous waste. The generator must determine if the waste is a listed hazardous waste defined in rules 3745-51-30 to 3745-51-35 of the Administrative Code, and/or the generator must determine whether the waste is a characteristic hazardous waste identified in rules 3745-51-20 to 3745-51-24 of the Administrative Code by either: (1) Testing the waste or (2) Applying knowledge of the hazardous characteristic of the waste.

a. Crest Rubber failed to determine if the approximated 500 (55 gallon) drums and approximated 1,000 smaller containers of material abandoned at the Facility is a hazardous waste.

b. Crest Rubber failed to determine if the releases onto the ground are a hazardous waste. At the time of the inspection, Ohio EPA observed releases on the ground from the containers in the buildings.

c. Crest Rubber failed to determine if the contents of the press pits are a hazardous waste.

In order to resolve these violations, Ohio EPA recommends that Crest Rubber immediately evaluate these wastes to determine if they are a hazardous waste as required by this rule.

Conclusion

Ohio EPA requests that Crest Rubber promptly undertake the necessary measures to return to compliance with Ohio's environmental laws and regulations. Within 14 days of receipt of this letter, please provide documentation to Ohio EPA of the actions taken to resolve the violations cited above. Documentation of steps taken to return to compliance includes written correspondence, updated policies, and photographs, as appropriate, and may be submitted via the postal service or electronically to marlene.kinney@epa.ohio.gov.

Please be advised that violations cited above will continue until the violations have been properly resolved. Failure to comply with Chapter 3734. of the Ohio Revised Code and rules promulgated thereunder may result in an administrative or civil penalty of up to $10,000 dollars per day for each violation. If circumstances delay the resolution of violations, Crest Rubber is requested to submit written correspondence of the steps that will be taken by date certain to attain compliance.

The submission of any requested information to respond to this letter does not constitute waiver of Ohio EPA's authority to seek administrative or civil penalties as provided in Section 3734. of the Ohio Revised Code.

Additionally, this notice of violation is only associated with those areas of the operations that were inspected or documentation reviewed and does not constitute a waiver of potential violations not discovered.

A copy of the inspection report including checklists that we completed as a result of the inspection will be sent with a separate letter. You can find Ohio's hazardous waste rules and other information on the division's web page at: http://epa.ohio.gov/dmwm/Home.aspx.

Should you have any questions, please contact me at (330) 963-1162, or marlene.kinney@epa.ohio.gov.

Sincerely,

Marlene M. Kinney

Marlene Kinney, Northeast District Office, HW-DERR

MK/nvr

cc: Steven Clark
Chief Jason Hunt, Alliance Fire Department
Thomas Roy Buchanan, Esq.
Mark Uhrich, Hillyergroup

ec: Nyall McKenna, Northeast District Office, HW-DERR
Natalie Oryshkewych, Northeast District Office, HW-DERR
Tammy McConnell, CO, HW-DERR
Andrea Smoktonowicz, Legal, CO
Mitch Matthews, CO, HW-DERR
Jim Augustyn, U.S. EPA

OBY
KRAMER
SKINNER
ATTORNEYS AT LAW

Colin G. Skinner
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cskinner@okslaw.com

October 31, 2016

Marlene Kinney
Ohio Environmental Protection Agency
Northern District Office
2110 East Aurora Road
Twinsburg, OH 44087

Re: Crest Rubber Company and C.F. Capital Investment Corp.
OHR000203281

Ms. Kinney,

I have been retained by Steven Clark in regard to the above-referenced matter. I am in receipt of a letter to Steven Clark's father, David Clark, upon which Steve Clark was copied. I am writing in response to that letter, on behalf of Steven Clark only. I do not, and cannot, represent David Clark, Crest Rubber Company or C.F. Capital Investments. David Clark, to the best of my knowledge is incapacitated. Your letter was delivered to his home, but he is hospitalized for what is likely to be his final illness. His counsel, who was also copied on your letter, will hopefully respond on his behalf. Further, Crest Rubber and C.F. Capital are currently under the control of a receiver appointed in the mater of *The Huntington National Bank v. C.F. Capital Investment Corp, et al.*, Portage County Court of Common Pleas Case No. 2015 CV 00291. The Receiver, who was also copied on your letter, is also represented by counsel. I note that, in your letter, you indicated that, during your inspection, Steven Clark represented David Clark, but I believe that overstates the situation. Steven Clark, in response to an allegation of an existing hazard, provided you access to the property, but he cannot claim, and does not claim, to represent or control any other person or entity.

To the best of my knowledge, David Clark cannot respond to the demands of your letter due to his illness and the existence of the Receiver appointed over Crest Rubber and C.F. Capital. As a consequence, I believe that your correspondence should have been directed to the Receiver as the responsible party. The Receiver was appointed over Crest Rubber and C.F. Capital on July 27, 2015, and, while he has continued to operate Crest Rubber, he has taken a variety of actions that diminish those entities' ability to comply with the actions demanded in your letter. At the time of the Receiver's appointment, C.F. Capital owned as many as seven commercial properties including the property in at 633 North Union Ave., Alliance, Ohio (the "Alliance Property"), which forms the subject matter of your letter. Of

the C.F. Capital properties, Crest Rubber operated and controlled its headquarters in Newton Falls and the Alliance Property, which was used as a manufacturing facility until several years ago, and as a storage facility to this day. Crest may have been in possession or control of other C.F. Properties. Since his appointment, the Receiver has sold three of C.F. Capital's Properties and applied the proceeds of those sales to his fees and the loans owed to Huntington National Bank. In regard to the Alliance property, the Receiver has requested, and the Court has ostensibly granted, that the Alliance Property be abandoned as "burdensome to the estate." The motion and order purport to abandon the property to David Clark; however, the legal title appears to remain in C.F. Capital.

As a consequence, the Receiver is liquidating C.F. Capital of any valuable properties, while abandoning the Alliance Property to an elderly man on his deathbed and without the financial means to maintain the Property. Similarly, the Receiver is operating Crest Rubber, with the object of repaying Huntington Bank, while abandoning the chemicals stored at the Alliance Property. Even assuming that David Clark had the mental capacity to deal with this situation, he could do nothing to rectify the situation as the Alliance Property, is not titled in his name, and he no longer controls C.F. Capital or Crest Rubber. Steven Clark at this juncture does not control Crest Rubber or C.F. Capital, and he has no ability to rectify this situation either. It is my understanding that the regulations that you seek to enforce are applicable to receivers and mortgage holders in control of regulated facilities. It would be my recommendation that you direct your enforcement efforts at the Receiver and, perhaps, intervene in the Portage County matter and seek to prevent the complete liquidation of the Crest Rubber and C.F. Capital before the Alliance Property can be remediated. If I can be of any assistance in this regard, please let me know. I would be happy to do so.

My client is happy to cooperate in your efforts to the extent that he can, and he would like to be kept informed in regard to your activities. I would appreciate it if you would direct all future communication with Steven Clark through my office.

Very truly yours,

Colin G. Skinner

Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

November 2, 2016

Thomas R. Buchanan, Esq.
206 S. Meridian Street, Suite B
Ravenna, Ohio 44266

Re: Crest Rubber Co./C.F. Capital
Notice of Violation (NOV)
NOV
RCRA C - Hazardous Waste
Portage County
OHD041633512

CERTIFIED MAIL
91 7199 9991 7037 2080 4681

Hazardous Waste Program – DERR

Subject: David Clark - Crest Rubber Co. and C.F. Capital Investments, Complaint, FCI, Notice of Violation

Dear Mr. Buchanan:

On October 25, 2016, the Ohio Environmental Protection Agency (Ohio EPA) met with Don and Carol Clevenger, caretakers of the property located at 645 South Chestnut Street, Ravenna, Ohio (Chestnut Street Facility). The Chestnut Street Facility has been operated by the Crest Rubber Company (Crest Rubber) and is owned by C.F. Capital Investment, Corp. (C.F. Capital). Ohio EPA was represented by Frank Zingales and me during Ohio EPA's investigation.

During Ohio EPA's October 21, 2016, complaint investigation (#7915) at the Crest Rubber Company, located at 633 North Union Avenue, Alliance, Ohio, Ohio EPA learned that Crest Rubber had another warehouse located at 645 South Chestnut Street, Ravenna, Ohio. The goal of our investigation at the Chestnut Street Facility was to determine if the Chestnut Street Facility was storing rubber related materials and to determine if it was in compliance with Ohio's hazardous waste laws as found in Chapter 3734. of the Ohio Revised Code (ORC) and the rules in Chapter 3745 of the Ohio Administrative Code (OAC).

Findings

Ohio EPA observed the following violation of Ohio's hazardous waste laws and regulations. In order to bring your client's company into compliance, we recommend promptly addressing these violations within 14 days of your receipt of this letter.

1. **OAC Rule 3745-52-11, Hazardous Waste Determination:** Any person who generates a waste must determine if that waste is a hazardous waste. The generator must determine if the waste is a listed hazardous waste defined in rules 3745-51-30 to 3745-51-35 of the Administrative Code, and/or the generator must determine whether the waste is a characteristic hazardous waste identified in rules 3745-51-20 to 3745-51-24 of the Administrative Code by either: (1) Testing the waste or (2) Applying knowledge of the hazardous characteristic of the waste.

   During an October 25, 2016, inspection at the Chestnut Street Facility, Ohio EPA documented over 250 pallets of abandoned wastes. These pallets contained, amongst other things, less-than one-gallon, one-gallon, five-gallon, 30-gallon and 55-gallon sized containers, in addition to bags of solids, powders and granular materials. These pallets were located in multiple areas of the property and can be broadly categorized into two waste types: paint related materials and rubber related materials. The areas of the property where abandoned wastes were documented are: the first floor of the A building where the vacant, former apartments are located, section A (A-1); the first floor of the main warehouse, section B (B-1); the second floor of the main warehouse, section B (B-2); the fourth floor of the main warehouse, section B (B-4); the second floor of the main warehouse, section C (C-2); the third floor of the main warehouse, section C (C-3); the fourth floor of the main warehouse, section C (C-4); and the Orange Building.

   a. Crest Rubber/C.F. Capital has failed to determine if the waste paint related materials are a hazardous waste. At the time of the investigation, this waste was being stored on pallets at sections B-1, B-4, C-2 and C-4 of the Chestnut Street Facility.

   b. Crest Rubber/C.F. Capital has failed to determine if the rubber related materials being stored are a hazardous waste. At the time of the investigation, this waste was being stored on pallets at sections A-1, B-1, B-2 and C-3, and the Orange Building of the Chestnut Street Facility.

   In order to resolve these violations, Ohio EPA recommends that Crest Rubber/C.F. Capital immediately evaluate these wastes to determine if they are a hazardous waste as required by this rule and submit the evaluations to this office for review.

Conclusion

Ohio EPA requests that Crest Rubber/C.F. Capital promptly undertake the necessary measures to return to compliance with Ohio's environmental laws and regulations. Within 14 days of receipt of this letter, please provide documentation to Ohio EPA of the actions taken to resolve the violations cited. Documentation of steps taken to return to compliance includes written correspondence, updated policies, and photographs, as appropriate, and may be submitted via the postal service or electronically to marlene.kinney@epa.ohio.gov.

Please be advised that violations cited above will continue until the violations have been properly resolved. Failure to comply with Chapter 3734. of the Ohio Revised Code and rules promulgated thereunder may result in an administrative or civil penalty of up to $10,000 per day for each violation. If circumstances delay the resolution of violations, Crest Rubber/C.F. Capital is requested to submit written correspondence of the steps that will be taken by date certain to attain compliance.

The submission of any requested information to respond to this letter does not constitute waiver of Ohio EPA's authority to seek administrative or civil penalties as provided in Section 3734. of the Ohio Revised Code.

Additionally, this NOV is only associated with those areas of the operations that were inspected or documentation reviewed and does not constitute a waiver of potential violations not discovered

A copy of the inspection report including completed checklists will be sent with a separate letter. You can find Ohio's hazardous waste rules and other information on the division's web page at: http://epa.ohio.gov/dmwm/Home.aspx.

Should you have any questions, please contact me at (330) 963-1162 or at marlene.kinney@epa.ohio.gov

Sincerely,

Nyall McKenna

Marlene Kinney
District Representative
Hazardous Waste Program - Division of Environmental Response and Revitalization

MK:cla

cc: Steven Clark
Mark Uhrich, Hillyergroup
Colin G. Skinner, Esq.

ec: Marlene Kinney, Hazardous Waste Program, Ohio EPA, NEDO, DERR
Natalie Oryshkewych, Hazardous Waste Program, Ohio EPA, NEDO, DERR
Nyall McKenna, Hazardous Waste Program, Ohio EPA, NEDO, DERR
Frank Zingales, Hazardous Waste Program, Ohio EPA, NEDO, DERR
Tammy McConnell, Hazardous Waste Program, Ohio EPA, Central Office, DERR
Andrea Smoktonowicz, Ohio EPA, Central Office, Legal
Mitchell Mathews, Ohio EPA, Central Office, HW-DERR
Jim Augustyn, U.S. EPA

Ohio EPA Photographs

Alliance Facility

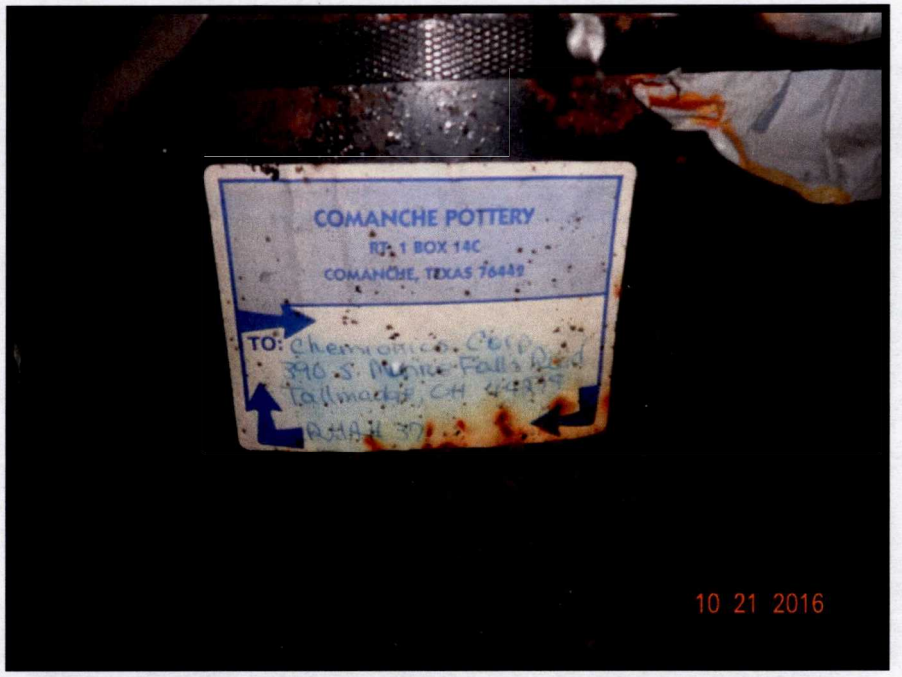
Alliance Facility – View off 55-gallon drums in Building One.

Alliance Facility – View of 55-gallon drum labeled as Methyl Ethyl Ketone.

Alliance Facility – View of 55-gallon drums in Building One.

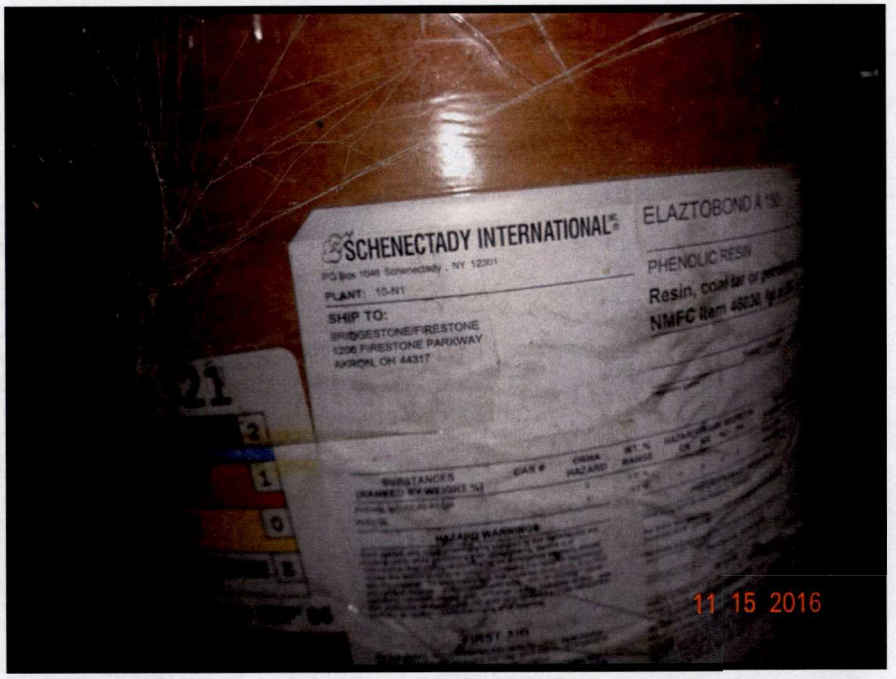
Alliance Facility – View of 55-gallon labeled as Acetone.

Alliance Facility – View of 55-gallon drums in Building One.



Alliance Facility – View of shipping label on drum in previous picture.

Alliance Facility – View of press pit in Building One.

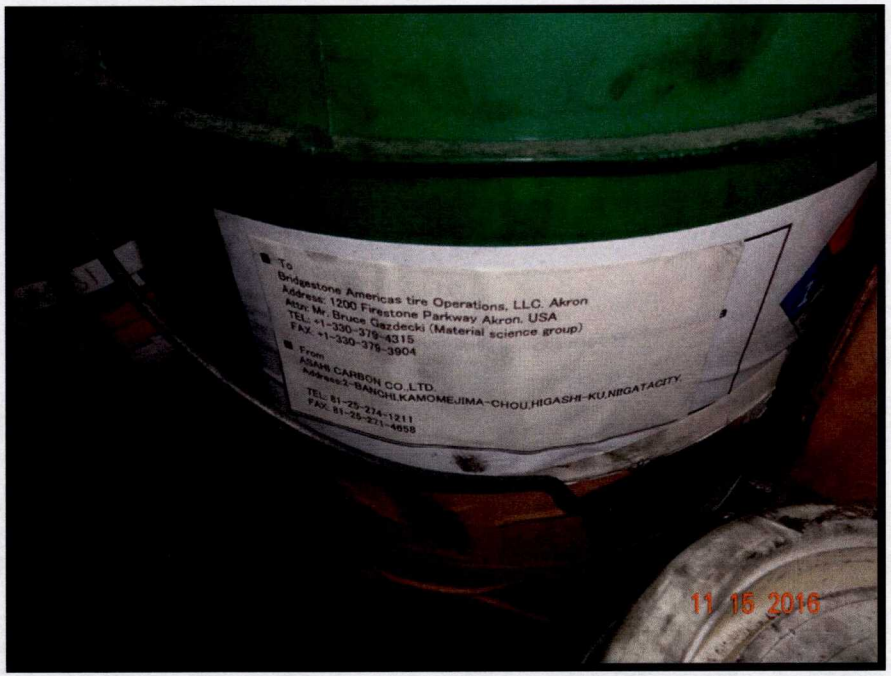


Alliance Facility – View of shipping label on container in Building Two.

Alliance Facility – View of containers in Building One.

Alliance Facility – View of shipping label on container in previous picture.

Alliance Facility – View of containers in Building One.



Alliance Facility – View of shipping label on container in previous picture.

Alliance Facility – View of collapsed roof at Building Two.

Alliance Facility – View of 55-gallon drums in Building Two.

Alliance Facility – View of containers in Building Two.

Alliance Facility – View of containers in Building Two.

Alliance Facility – View of 55-gallon drums in Building Two.

Alliance Facility – View of containers in Building Two.

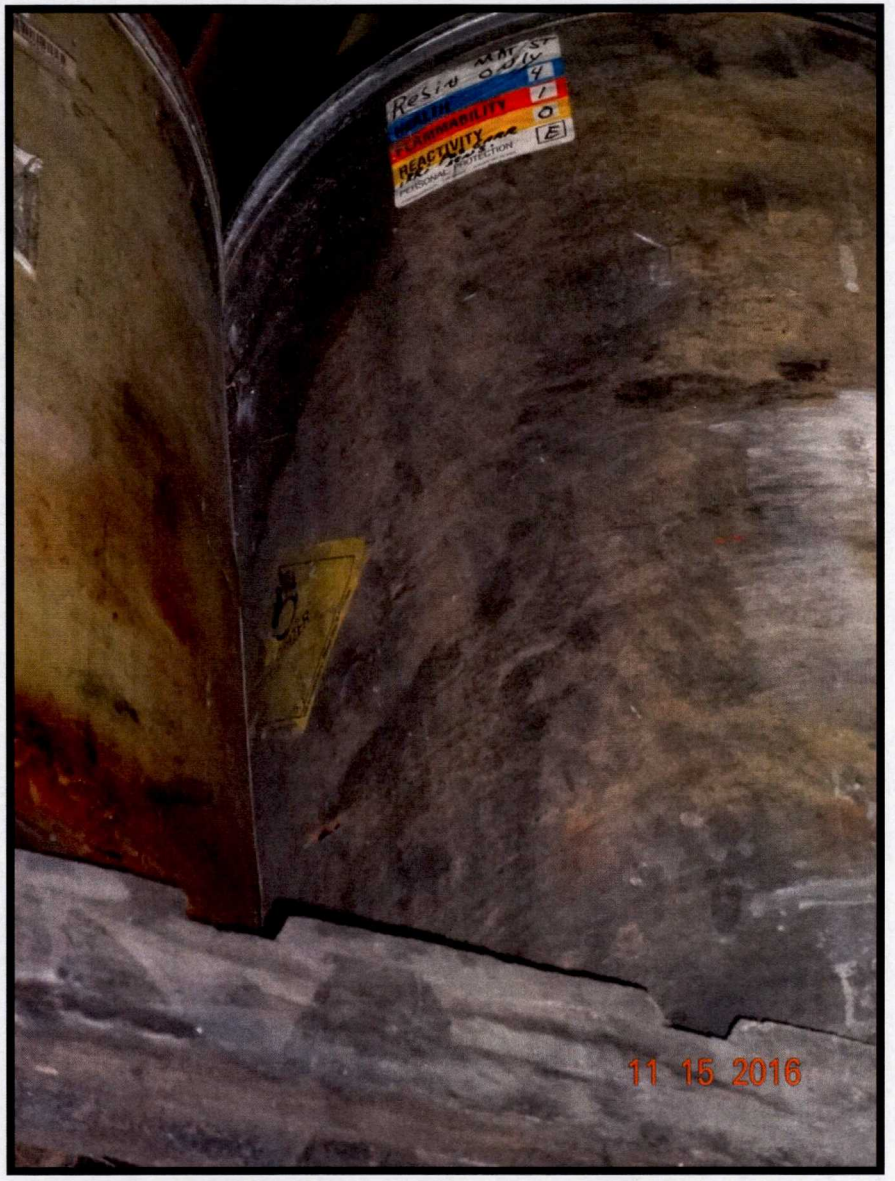
Alliance Facility – View of containers in Building Two.

Alliance Facility – View of container labeled as Organic Peroxide in Building Two.

Alliance Facility – View of containers with Organic Peroxide in Building Two.

Alliance Facility – View of containers with Organic Peroxide in Building Two.

Alliance Facility – View of container labeled as Oxidizer.



Alliance Facility – View of container labeled as Oxidizer.

Alliance Facility – View of containers in Building Two.

Alliance Facility – View of missing window on Building One.

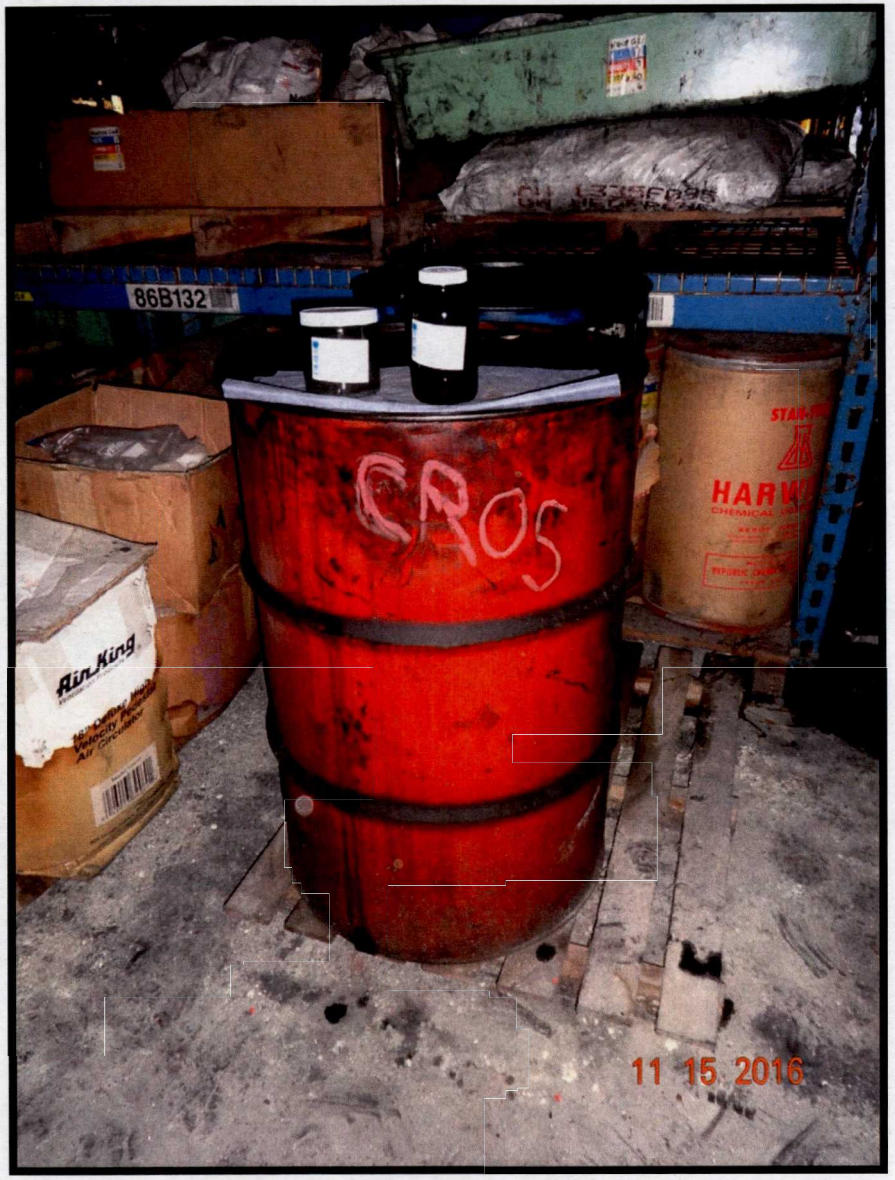
Alliance Facility – View of container/sample CR-01.

Alliance Facility – View of shipping label on container CR-01.

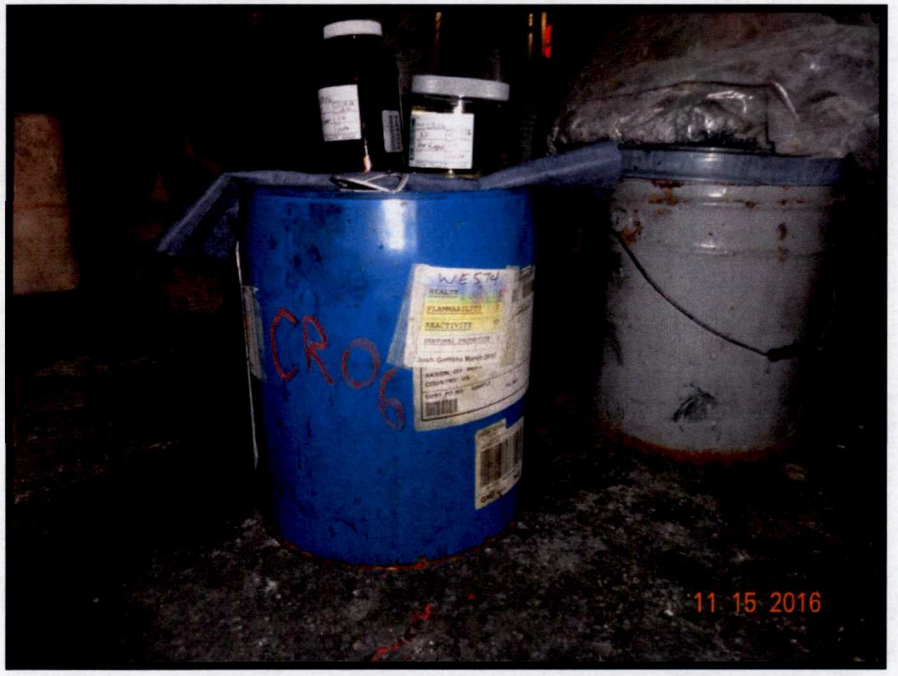
Alliance Facility – View of container/sample CR-02.

Alliance Facility – View of container/sample CR-03.

Alliance Facility – View of container/sample CR-04.



Alliance Facility – View of container/sample CR-05



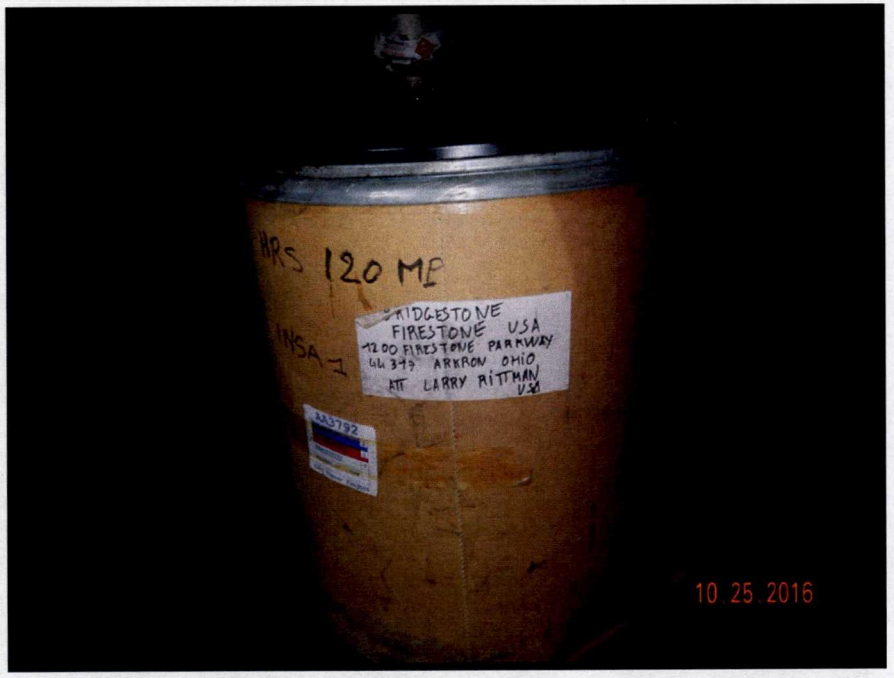
Alliance Facility – View of container/sample CR-06.

Chestnut Street Facility

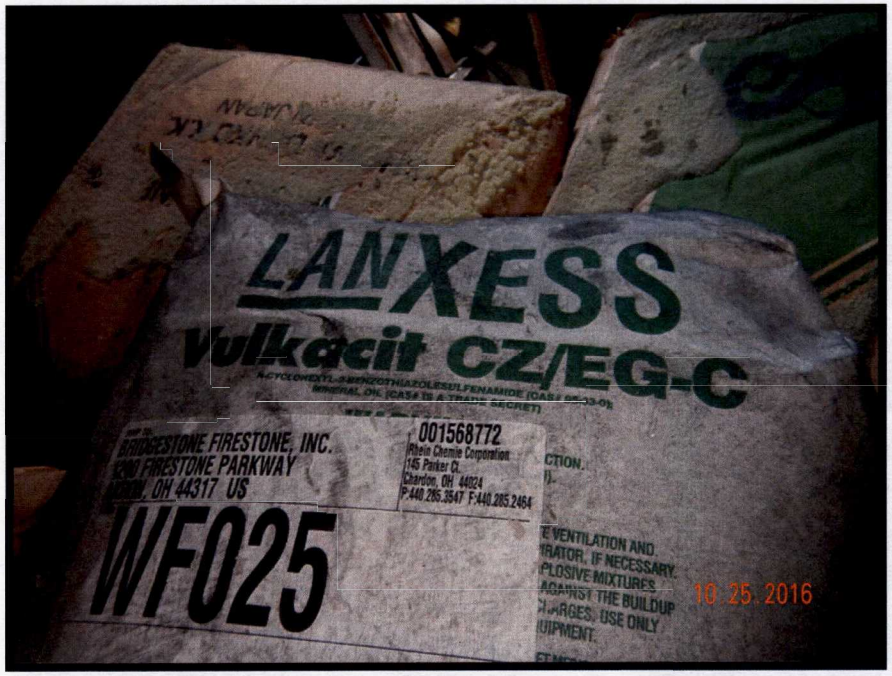
Chestnut Street Facility – Area A1

Chestnut Street Facility – Area A1

Chestnut Street Facility – Area A1



Chestnut Street Facility – Area A1



Chestnut Street Facility – Area A1

Chestnut Street Facility – Area B1

Chestnut Street Facility – Area B1

Chestnut Street Facility – Area B1

Chestnut Street Facility – Area B1

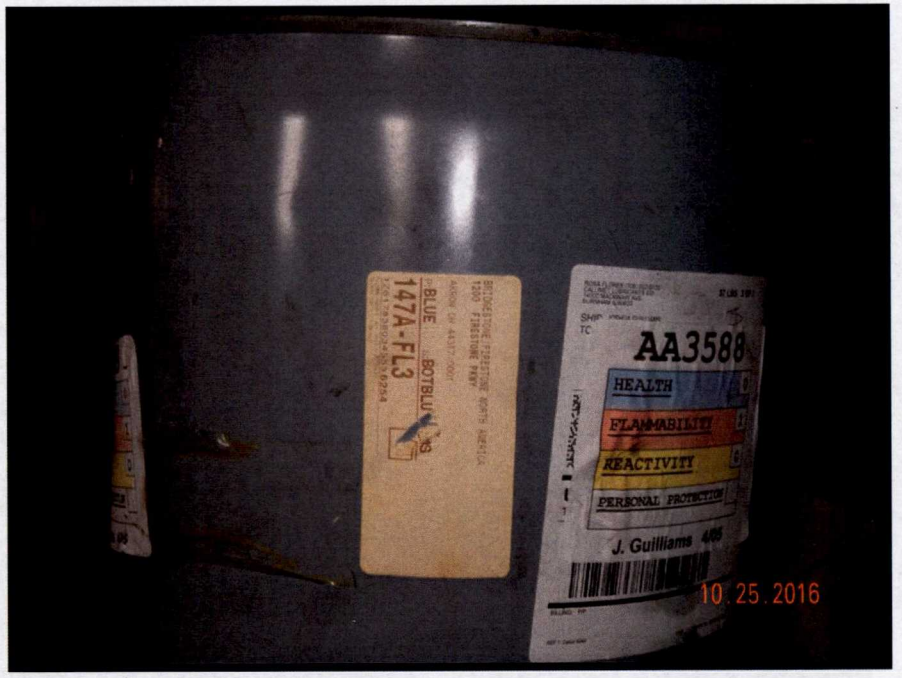
Chestnut Street Facility – Area B1

Chestnut Street Facility – Area B3

Chestnut Street Facility – Area B3

Chestnut Street Facility – Area B3

Chestnut Street Facility – Area B3



Chestnut Street Facility – Area B3

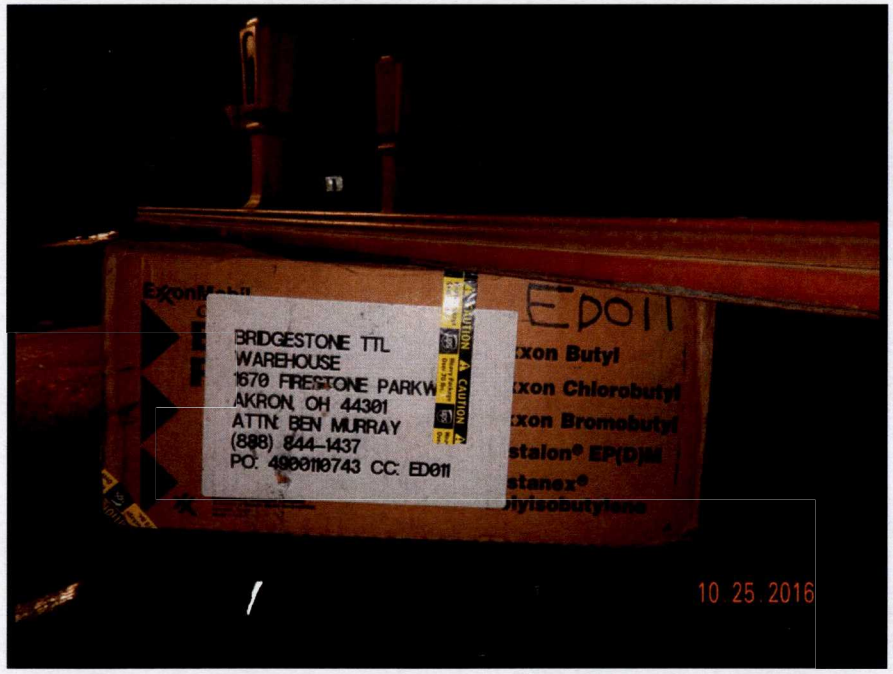
Chestnut Street Facility – Orange Building

Chestnut Street Facility – Orange Building

Chestnut Street Facility – Orange Building

Chestnut Street Facility – Orange Building

Chestnut Street Facility – Orange Building



Chestnut Street Facility – Orange Building

Chestnut Street Facility – Orange Building

Ohio Environmental Protection Agency
Analytical Results Summary for Crest Rubber Co.

Analyte	Units	Regulatory Level [1]	Sample ID Sample Date Matrix Container	CR-01 11/15/2016 Liquid 5-gallon	CR-02 11/15/2016 Liquid 55-gallon	CR-03 11/15/2016 Liquid 55-gallon	CR-04 11/15/2016 Liquid 55-gallon	CR-05 11/15/2016 Liquid 55-gallon	CR-06 11/15/2016 Liquid 5-gallon
TCLP VOCs									
Benzene	mg/L	0.5		NA	**1.47 J**	**87.1**	**46.3**	<2.53 U	NA
Carbon tetrachloride	mg/L	0.5		NA	<2.45 U	<3.33 U	<2.43 U	<2.53 U	NA
Chlorobenzene	mg/L	100		NA	<2.45 U	<3.33 U	3.33	<2.53 U	NA
Chloroform	mg/L	6		NA	<2.45 U	<3.33 U	<2.43 U	<2.53 U	NA
1,1-Dichloroethene	mg/L	0.7		NA	<2.45 U	<3.33 U	<2.43 U	<2.53 U	NA
1,2-Dichloroethane	mg/L	0.5		NA	<2.45 U	<3.33 U	<2.43 U	<2.53 U	NA
Methyl Ethyl Ketone	mg/L	200		NA	<4.90 U	21.5	<4.85 U	<5.05 U	NA
Tetrachloroethene	mg/L	0.7		NA	<2.45 U	**17.1**	<2.43 U	<2.53 U	NA
Trichloroethene	mg/L	0.5		NA	<2.45 U	<3.33 U	<2.43 U	<2.53 U	NA
Vinyl chloride	mg/L	0.2		NA	<4.90 U	<6.67 U	<4.85 U	<5.05 U	NA
Ignitability	°C	60		**52**	67	**0**	**59**	>69	**25**

NOTES:
NA - Not analyzed.
U - Indicates the analyte was analyzed for but not detected.
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Summary only, see full analytical report - Microbac Laboratories L16111050.
Note 1 - Hazardous Waste Regulatory Level, OAC rule 3745-51-24 - A waste is considered a characteristic hazardous waste when tested using the toxicity characteristic leaching procedure (TCLP) and found to contain a contaminant at a concentration ≥ the respective level listed in this rule.
Hazardous Waste Regulatory Level, OAC rule 3745-51-21 - A liquid is considered an ignitable hazardous waste when its flashpoint is less than 60 degrees Celsius.
Bold indicates hazardous waste.

Microbac

Laboratory Report Number: L16111050

Frank Zingales
Ohio Environmental Protection Agency
2110 East Aurora Road
Twinsburg, OH 44087

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Michelle Taylor – Client Services Specialist
(740) 373-4071
Michelle.Taylor@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on December 02 2016

Leslie Bucina – Managing Director

State of Origin: OH
Accrediting Authority: N/A ID:OH00218
QAPP: Microbac OVD

Microbac

Lab Report #: L16111050
Lab Project #: 2755.044
Project Name: NORTHEAST DISTRICT OFFICE #3
Lab Contact: Michelle Taylor

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
00114535	I	1.0			X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	NA
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Microbac Laboratories • Ohio Valley Division
158 Starlite Drive, Marietta, OH 45750 • T: (740)373-4071 F: (740)373-4835
www.microbac.com

Microbac

Lab Report #: L16111050
Lab Project #: 2755.044
Project Name: NORTHEAST DISTRICT OFFICE #3
Lab Contact: Michelle Taylor

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
CR-01	L16111050-01	11/15/2016 00:00	11/18/2016 13:48
CR-02	L16111050-02	11/15/2016 00:00	11/18/2016 13:48
CR-03	L16111050-03	11/15/2016 00:00	11/18/2016 13:48
CR-04	L16111050-04	11/15/2016 00:00	11/18/2016 13:48
CR-05/TOP LAYER	L16111050-05	11/15/2016 00:00	11/18/2016 13:48
CR-05/BOTTOM LAYER	L16111050-06	11/15/2016 00:00	11/18/2016 13:48
CR-06	L16111050-07	11/15/2016 00:00	11/18/2016 13:48

Microbac

Lab Report #: L16111050
Lab Project #: 2755.044
Project Name: NORTHEAST DISTRICT OFFICE #3
Lab Contact: Michelle Taylor

Certificate of Analysis

Sample #: L16111050-01
Client ID: CR-01
Matrix: Oil
Workgroup #: WG593250
Collect Date: 11/15/2016 00:00
Sample Tag:

PrePrep Method: N/A
Prep Method: 1010
Analytical Method: 1010
Analyst: CPD
Dilution: 1
Units: Degrees C

Instrument: PRECISION
Prep Date: N/A
Cal Date:
Run Date: 12/01/2016 08:30
File ID: PR16120213192801

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		52.0		0.000	0.000

Sample #: L16111050-02
Client ID: CR-02
Matrix: Oil
Workgroup #: WG593250
Collect Date: 11/15/2016 00:00
Sample Tag:

PrePrep Method: N/A
Prep Method: 1010
Analytical Method: 1010
Analyst: CPD
Dilution: 1
Units: Degrees C

Instrument: PRECISION
Prep Date: N/A
Cal Date:
Run Date: 12/01/2016 08:30
File ID: PR16120213193601

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		67.0		0.000	0.000

Sample #: L16111050-03
Client ID: CR-03
Matrix: Oil
Workgroup #: WG593250
Collect Date: 11/15/2016 00:00
Sample Tag:

PrePrep Method: N/A
Prep Method: 1010
Analytical Method: 1010
Analyst: CPD
Dilution: 1
Units: Degrees C

Instrument: PRECISION
Prep Date: N/A
Cal Date:
Run Date: 12/01/2016 08:30
File ID: PR16120213195001

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		0.000	<	0.000	0.000

<	Result is less than the associated numerical value.

Sample #: L16111050-04
Client ID: CR-04
Matrix: Oil
Workgroup #: WG593250
Collect Date: 11/15/2016 00:00
Sample Tag:

PrePrep Method: N/A
Prep Method: 1010
Analytical Method: 1010
Analyst: CPD
Dilution: 1
Units: Degrees C

Instrument: PRECISION
Prep Date: N/A
Cal Date:
Run Date: 12/01/2016 08:30
File ID: PR16120213195901

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		59.0		0.000	0.000

Microbac

Lab Report #: L16111050
Lab Project #: 2755.044
Project Name: NORTHEAST DISTRICT OFFICE #3
Lab Contact: Michelle Taylor

Certificate of Analysis

Sample #:	L16111050-05	**PrePrep Method:**	N/A	**Instrument:**	PRECISION
Client ID:	CR-05/TOP LAYER	**Prep Method:**	1010	**Prep Date:**	N/A
Matrix:	Oil	**Analytical Method:**	1010	**Cal Date:**	
Workgroup #:	WG593250	**Analyst:**	CPD	**Run Date:**	12/01/2016 08:30
Collect Date:	11/15/2016 00:00	**Dilution:**	1	**File ID:**	PR16120213201901
Sample Tag:		**Units:**	Degrees C		

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		95.0	>	0.000	0.000

>	Result is greater than the associated numerical value.

Sample #:	L16111050-06	**PrePrep Method:**	N/A	**Instrument:**	PRECISION
Client ID:	CR-05/BOTTOM LAYER	**Prep Method:**	1010	**Prep Date:**	N/A
Matrix:	LiqWaste	**Analytical Method:**	1010	**Cal Date:**	
Workgroup #:	WG593250	**Analyst:**	CPD	**Run Date:**	12/01/2016 08:30
Collect Date:	11/15/2016 00:00	**Dilution:**	1	**File ID:**	PR16120213203401
Sample Tag:		**Units:**	Degrees C		

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		69.0	>	0.000	0.000

>	Result is greater than the associated numerical value.

Sample #:	L16111050-07	**PrePrep Method:**	N/A	**Instrument:**	PRECISION
Client ID:	CR-06	**Prep Method:**	1010	**Prep Date:**	N/A
Matrix:	Oil	**Analytical Method:**	1010	**Cal Date:**	
Workgroup #:	WG593250	**Analyst:**	CPD	**Run Date:**	12/01/2016 08:30
Collect Date:	11/15/2016 00:00	**Dilution:**	1	**File ID:**	PR16120213204201
Sample Tag:		**Units:**	Degrees C		

Analyte	CAS #	Result	Qual	RL	MDL
Ignitability		25.0		0.000	0.000

Microbac

Lab Report #: L16111050
Lab Project #: 2755.044
Project Name: NORTHEAST DISTRICT OFFICE #3
Lab Contact: Michelle Taylor

Certificate of Analysis

Sample #:	L16111050-02	**PrePrep Method:**		**Instrument:**	HPMS9
Client ID:	CR-02	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	TCLP Leach	**Analytical Method:**	8260B	**Cal Date:**	10/12/2016 16:49
Workgroup #:	WG592569	**Analyst:**	FJB	**Run Date:**	11/22/2016 20:13
Collect Date:	11/15/2016 00:00	**Dilution:**	50	**File ID:**	9M977318
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Benzene	1470	J	2450	61.3	D018	500
Carbon tetrachloride		U	2450	123	D019	500
Chlorobenzene		U	2450	61.3	D021	100000
Chloroform		U	2450	61.3	D022	6000
1,2-Dichloroethane		U	2450	123	D028	500
1,1-Dichloroethene		U	2450	245	D029	700
Methyl Ethyl Ketone		U	4900	1230	D035	200000
Tetrachloroethene		U	2450	123	D039	700
Trichloroethene		U	2450	123	D040	500
Vinyl chloride		U	4900	123	D043	200

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	93.1	86	118	
1,2-Dichloroethane-d4	78.3	80	120	*
Toluene-d8	116	88	110	*
4-Bromofluorobenzene	509	86	115	*

*	Surrogate or spike compound out of range
J	The analyte was positively identified, but the quantitation was below the RL
U	Not detected at or above adjusted sample detection limit

Sample #:	L16111050-03	**PrePrep Method:**		**Instrument:**	HPMS9
Client ID:	CR-03	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	TCLP Leach	**Analytical Method:**	8260B	**Cal Date:**	10/12/2016 16:49
Workgroup #:	WG592569	**Analyst:**	FJB	**Run Date:**	11/22/2016 19:13
Collect Date:	11/15/2016 00:00	**Dilution:**	50	**File ID:**	9M977316
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Benzene	87100		3330	83.3	D018	500
Carbon tetrachloride		U	3330	167	D019	500
Chlorobenzene		U	3330	83.3	D021	100000
Chloroform		U	3330	83.3	D022	6000
1,2-Dichloroethane		U	3330	167	D028	500

Certificate of Analysis

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
1,1-Dichloroethene		U	3330	333	D029	700
Methyl Ethyl Ketone	21500		6670	1670	D035	200000
Tetrachloroethene	17100		3330	167	D039	700
Trichloroethene		U	3330	167	D040	500
Vinyl chloride		U	6670	167	D043	200

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.0	86	118	
1,2-Dichloroethane-d4	82.6	80	120	
Toluene-d8	99.9	88	110	
4-Bromofluorobenzene	100	86	115	

U	Not detected at or above adjusted sample detection limit

Sample #:	L16111050-04	**PrePrep Method:**		**Instrument:**	HPMS9
Client ID:	CR-04	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	TCLP Leach	**Analytical Method:**	8260B	**Cal Date:**	10/12/2016 16:49
Workgroup #:	WG592569	**Analyst:**	FJB	**Run Date:**	11/22/2016 19:43
Collect Date:	11/15/2016 00:00	**Dilution:**	50	**File ID:**	9M977317
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Benzene	46300		2430	60.7	D018	500
Carbon tetrachloride		U	2430	121	D019	500
Chlorobenzene	3330		2430	60.7	D021	100000
Chloroform		U	2430	60.7	D022	6000
1,2-Dichloroethane		U	2430	121	D028	500
1,1-Dichloroethene		U	2430	243	D029	700
Methyl Ethyl Ketone		U	4850	1210	D035	200000
Tetrachloroethene		U	2430	121	D039	700
Trichloroethene		U	2430	121	D040	500
Vinyl chloride		U	4850	121	D043	200

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	92.7	86	118	
1,2-Dichloroethane-d4	85.6	80	120	
Toluene-d8	104	88	110	
4-Bromofluorobenzene	1020	86	115	*

*	Surrogate or spike compound out of range
U	Not detected at or above adjusted sample detection limit

Certificate of Analysis

Sample #:	L16111050-05	**PrePrep Method:**		**Instrument:**	HPMS9
Client ID:	CR-05/TOP LAYER	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	TCLP Leach	**Analytical Method:**	8260B	**Cal Date:**	10/12/2016 16:49
Workgroup #:	WG592569	**Analyst:**	FJB	**Run Date:**	11/22/2016 18:42
Collect Date:	11/15/2016 00:00	**Dilution:**	50	**File ID:**	9M977315
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Benzene		U	2530	63.1	D018	500
Carbon tetrachloride		U	2530	126	D019	500
Chlorobenzene		U	2530	63.1	D021	100000
Chloroform		U	2530	63.1	D022	6000
1,2-Dichloroethane		U	2530	126	D028	500
1,1-Dichloroethene		U	2530	253	D029	700
Methyl Ethyl Ketone		U	5050	1260	D035	200000
Tetrachloroethene		U	2530	126	D039	700
Trichloroethene		U	2530	126	D040	500
Vinyl chloride		U	5050	126	D043	200

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	90.8	86	118	
1,2-Dichloroethane-d4	75.4	80	120	*
Toluene-d8	105	88	110	
4-Bromofluorobenzene	101	86	115	

*	Surrogate or spike compound out of range
U	Not detected at or above adjusted sample detection limit

Sample #:	L16111050-06	**PrePrep Method:**		**Instrument:**	HPMS11
Client ID:	CR-05/BOTTOM LAYER	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	TCLP Leach	**Analytical Method:**	8260B	**Cal Date:**	10/13/2016 18:03
Workgroup #:	WG592631	**Analyst:**	JDS	**Run Date:**	11/22/2016 23:17
Collect Date:	11/15/2016 00:00	**Dilution:**	10	**File ID:**	11M15367
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Benzene		U	50.0	1.25	D018	500
Carbon tetrachloride		U	50.0	2.50	D019	500
Chlorobenzene		U	50.0	1.25	D021	100000
Chloroform		U	50.0	1.25	D022	6000
1,2-Dichloroethane		U	50.0	2.50	D028	500
1,1-Dichloroethene		U	50.0	5.00	D029	700

Microbac

Lab Report #: L16111050
Lab Project #: 2755.044
Project Name: NORTHEAST DISTRICT OFFICE #3
Lab Contact: Michelle Taylor

Certificate of Analysis

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Methyl Ethyl Ketone		U	100	25.0	D035	200000
Tetrachloroethene		U	50.0	2.50	D039	700
Trichloroethene		U	50.0	2.50	D040	500
Vinyl chloride		U	100	2.50	D043	200

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	103	86	118	
1,2-Dichloroethane-d4	101	80	120	
Toluene-d8	102	88	110	
4-Bromofluorobenzene	99.1	86	115	

U	Not detected at or above adjusted sample detection limit

Login Number: L16111050
Department: Volatiles
Analyst: Franci Bolden

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

The TCLP extract of samples 02, 03, 04, 05 were insoluble in water and were extracted and analyzed via the mid-level procedure for 8260B.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: Recoveries out of range were observed for the following analytes: Vinyl Chloride. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: Recoveries out of range were observed for the following analytes: Chloromethane. Please see the applicable QC report for a detailed presentation of the failures.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: 1,1-Dichloroethene, Benzene,1,2-Dichloroethane. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient

volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: Recoveries out of range were observed for the following analytes: 1,4-Dichlorobenzene-d4. Sample 04 has obvious sample matrix interference and this internal standard is not used in the quantitation of target compounds. Please see the applicable QC report for a detailed presentation of the failures.

Surrogates: Recoveries out of range were observed for the following analytes: 1,2-Dichloroethane-d4, 4-Bromofluorobenzene, Toluene-d8. Samples 02, 04, 05 have obvious sample matrix interference. Please see the applicable QC report for a detailed presentation of the failures.

Sample #	Analyte	Date	Result	Lower	Upper	Type
L16111050-05	1,2-Dichloroethane-d4	2016-11-22 18:42:00	75.4	80	120	Recovery
L16111050-04	4-Bromofluorobenzene	2016-11-22 19:43:00	1020	86	115	Recovery
L16111050-02	1,2-Dichloroethane-d4	2016-11-22 20:13:00	78.3	80	120	Recovery
L16111050-02	Toluene-d8	2016-11-22 20:13:00	116	88	110	Recovery
L16111050-02	4-Bromofluorobenzene	2016-11-22 20:13:00	509	86	115	Recovery

Other: Samples 02, 03, 04, 05, 06, were run at a dilution.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac

Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 119965
Approved By: Franci Bolden

Login Number: L16111050
Department: Conventionals
Analyst: Chad Davis

METHOD

Analysis SW-846 1010 (Flashpoint)

Analysis Method 1010 is applicable only to liquid samples as specified in 40 CFR Part 261.21(a) (1). Section 261.21 does not define ignitability criteria, or test methods, for solid matrices. Any flashpoint data reported in this report for samples other than liquids should be considered of screening value only.

HOLDING TIMES

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Duplicates: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 120033
Approved By: Deanna Hesson

Dianna Hesson

FLASHPOINT

LCS: STD76483
TEMPERATURE: 18.9 PRESSURE: 740.3

SOP K1010 Revision #: 16

Method SW846 1010
Instrument: Pensky Marten Closed Cup Tester

SAMPLE	DESCRIPTION	INITIAL TEMP(C)	COMMENTS or FLASHPOINT	FINAL RESULT (C)	PROCEDURE A or B
LCS	P-Xylene	14	Flash @ 27	27	✓
LCS DUP	⊥	15	Flash @ 27	27	✓
Blank	DI	19	Flame ext @ 65	>65	✓
11-1050-01	oil, clear color, "sulfur?" odor	10	Flash @ 52	52	✓
-02	oil, yellow color, "fuel gas" odor	7	Flash @ 67	67	✓
* -03	oil, clear color, "alcohol?" strong odor	-5	Flash immd @ 5	-5 <0	✓
-04	oil, yellow color, "fuel gas" odor	9	Flash @ 59	59	✓
-05	top layer oil, thick black & brown, odor	12	No Flash @ 95	>95	✓
-06	bottom layer, light brown liquid waste odor	11	Flame ext @ 69	>69	✓
-07	oil, light yellow, "odor sweet"	9	Flash @ 25	25	✓
11-1173-01	water, clear, no odor	15	Flame ext @ 69	>69	✓
+ * 11-1072-04	liquid waste, brown color skin layer, odor	-5	Non-ignitable	NI	✓
11-1313-01	dispersion flush liquid waste, black, odor	9	Flash @ 67	67	✓
11-1246-01	oil, paint waste, cream color sticky, odor	9	Flash @ 29	29	✓
-02	oil, paint waste, red sticky, odor	12	Flash @ 16	16	✓
-03	oil, paint waste, dark yellow sticky, odor	13	Flash @ 25	25	✓
-04	oil, paint waste, odor, pink red color	14	Flash @ 18	18	✓
-05	oil, paint waste, odor, white	14	Flash @ 18	18	✓
-06	oil, paint waste, odor, brown	15	Flash @ 23	23	✓
-07	oil, paint waste, odor, orange	14	Flash @ 16	16	✓
-08	oil, paint waste, odor, sticky light brown	14	Flash @ 24	24	✓
-09	oil, paint waste, odor, sticky white	15	Flash @ 21	21	✓
-10	oil, paint waste, odor, sticky cream	14	Flash @ 18	18	✓
* DUP: 1050-03	oil, clear color, "alcohol?" strong odor	-5	Flash immd @ 5	-5 <0	✓

ANALYST: Charles L. Davis DATE: 12-1-16

* Sample put into freezer due to strong odor and to check if sample flash @ low temp.

+ Sample had like green/yellow flame @ -5°C and -3°C then @ 0°C there was no flame, it possible the sample is halogenated. Due to sample being volatile, it may not get a true flash.

DCN#122459

Workgroup: WG593250
Date: 01-DEC-16
Analyst: CPD

Observed Barometric Pressure: 740.3

Lowest Pressure in Bracket: 740
Temperature Correction #1: 2.35
Temperature Correction #2: 2.29

Lowest Pressure in Bracket: 700
Grav Correction #1: .48
Grav Correction #2: .42

Temperature Correction: 2.2909
Grav Correction: .44418
Corrected Barometric Pressure: 754.00492

Correction for Flash: .19783764

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
December 2, 2016

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001 - BIO-CHEM TESTING WVDEP 220
002 - REIC Consultants, Inc. WVDEP 060
003 - Sturm Environmental
004 - MICROBAC PITTSBURGH
005 - ES LABORATORIES
006 - ALCOSAN LABORATORIES
007 - ALS LABORATORIES
008 - BENCHMARK LABORATORIES
010 - MICROBAC CHICAGOLAND
AC - AMBER R. CARMICHAEL
ADC - ANTHONY D. CANTER
ADG - APRIL D. GREENE
AED - ALLEN E. DAVIS
ALS - ADRIANE L. STEED
AMA - ALEXANDRA M. ALFRED
AWE - ANDREW W. ESSIG
AZH - AFTER HOURS
BJO - BRIAN J. OGDEN
BKT - BRENDAN TORRENCE
BLG - BRENDA L. GREENWALT
BNB - Brandi N. Bentley
BRG - BRENDA R. GREGORY
CAA - CASSIE A. AUGENSTEIN
CAF - CHERYL A. FLOWERS
CAS - Craig A. Smith
CEB - CHAD E. BARNES
CJQ - Cameron J. Quick
CLC - CHRYS L. CRAWFORD
CLS - CARA L. STRICKLER
CLW - CHARISSA L. WINTERS
CPD - CHAD P. DAVIS
CRW - CHRISTINA R. WILSON
CSH - CHRIS S. HILL
CV - Carl Volkman
DAK - DEAN A. KETELSEN
DCM - DAVID C. MERCKLE
DEV - DAVID E. VANDENBERG
DIH - DEANNA I. HESSON
DLB - DAVID L. BUMGARNER
DLP - DOROTHY L. PAYNE
DSM - DAVID S. MOSSOR
DTG - DOMINIC T. GEHRET
ECL - ERIC C. LAWSON
EMW - ERIC M. WILKEN
ENY - EMILY N. YOAK
ERP - ERIN R. PORTER
FJB - FRANCES J. BOLDEN
HDD - HANAH D. DAWKINS
JDH - JUSTIN D. HESSON
JDS - JARED D. SMITH
JKP - JACQUELINE K. PARSONS
JLD - JESSICA L. DELONG
JLL - JOHN L. LENT
JMW - JEANA M. WHITE
JTP - JOSHUA T. PEMBERTON
JWR - JOHN W. RICHARDS
JWS - JACK W. SHEAVES
JYH - JI Y. HU
KAK - KATHY A. KIRBY
KAT - KATHY A. TUCKER
KDD - Katelyn D. Daley
KDW - KATHRYN D. WELCH
KEB - KATIE E. BARNES
KHR - KIM H. RHODES
KKB - KERRI K. BUCK
KRA - KATHY R. ALBERTSON
KRB - KAELY R. BECKER
KRP - KATHY R. PARSONS
LJH - Lacey J. Hendershot
LKN - LINDA K. NEDEFF
LLS - LARRY L. STEPHENS
LSB - LESLIE S. BUCINA
LSJ - LAURA S. JONES
MAP - MARLA A. PORTER
MBK - MORGAN B. KNOWLTON
MDA - MIKE D. ALBERTSON
MDC - MIKE D. COCHRAN
MES - MARY E. SCHILLING
MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR
MSW - MATT S. WILSON
NPH - Natalie P. Hart
PDM - PIERCE D. MORRIS
PIT - MICROBAC WARRENDALE
QX - QIN XU
RAH - ROY A. HALSTEAD
REK - BOB E. KYER
RLB - BOB BUCHANAN
RNP - RICK N. PETTY
SAV - SARAH A. VANDENBERG
SCB - SARAH C. BOGOLIN
SDC - SHALYN D. CONLEY
SLM - STEPHANIE L. MOSSBURG
SLP - SHERI L. PFALZGRAF
TB - TODD BOYLE
TGF - TIM G. FELTON
TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS
VC - VICKI COLLIER
WJB - WILL J. BEASLEY
WTD - WADE T. DELONG
XXX - UNAVAILABLE OR SUBCONTRACT

Microbac Laboratories Inc.
List of Valid Qualifiers
December 02, 2016

Qualkey: STD_ND=U

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
FP1	Did not ignite.
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,H1	The analyte was positively identified, but the quantitation was below the RL. Sample analysis performed past holding time
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND, S	Not detected; analyzed by method of standard addition (MSA)
ND,L	Not detected; sample reporting limit (RL) elevated due to interference
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Not detected at or above adjusted sample detection limit
U,H1	Not detected; sample analysis performed past holding time.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

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Organic QA/QC

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L16111050
Blank File ID: 11M15350
Prep Date: 11/22/16 15:10
Analyzed Date: 11/22/16 15:10
Analyst: JDS

Work Group: WG592631
Blank Sample ID: WG592631-01
Instrument ID: HPMS11
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG592631-02	11M15351	11/22/16 15:39	01
LCS2	WG592631-03	11M15352	11/22/16 16:08	01
CR-05/BOTTOM LAYER	L16111050-06	11M15367	11/22/16 23:17	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 5041997
Report generated 11/29/2016 10:10

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L16111050
Blank File ID: 9M977307
Prep Date: 11/22/16 14:41
Analyzed Date: 11/22/16 14:41
Analyst: FJB

Work Group: WG592569
Blank Sample ID: WG592569-01
Instrument ID: HPMS9
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG592569-02	9M977308	11/22/16 15:11	DL01
CR-05/TOP LAYER	L16111050-05	9M977315	11/22/16 18:42	DL01
CR-03	L16111050-03	9M977316	11/22/16 19:13	DL01
CR-04	L16111050-04	9M977317	11/22/16 19:43	DL01
CR-02	L16111050-02	9M977318	11/22/16 20:13	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 5041997
Report generated 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L16111050 Prep Date: 11/22/16 15:10 Sample ID: WG592631-01

Instrument ID: HPMS11 Run Date: 11/22/16 15:10 Prep Method: 5030B/5030C/503

File ID: 11M15350 Analyst: JDS Method: 8260B

Workgroup (AAB#): WG592631 Matrix: Water Units: ug/L

Contract #: Cal ID: HPMS11-13-OCT-16

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.125	5.00	0.125	1	U
Carbon tetrachloride	0.250	5.00	0.250	1	U
Chlorobenzene	0.125	5.00	0.125	1	U
Chloroform	0.125	5.00	0.245	1	J
1,2-Dichloroethane	0.250	5.00	0.250	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
Methyl Ethyl Ketone	2.50	10.0	2.50	1	U
Tetrachloroethene	0.250	5.00	0.250	1	U
Trichloroethene	0.250	5.00	0.250	1	U
Vinyl chloride	0.250	10.0	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	98.5	86 - 118	PASS
1,2-Dichloroethane-d4	95.3	80 - 120	PASS
Toluene-d8	98.5	88 - 110	PASS
4-Bromofluorobenzene	104	86 - 115	PASS

MDL Method Detection Limit

RL Reporting/Practical Quantitation Limit

ND Analyte Not detected at or above reporting limit

* |Analyte concentration| > RL

Report Name: BLANK

PDF ID: 5041998

29-NOV-2016 10:10

Microbac

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L16111050 Prep Date: 11/22/16 14:41 Sample ID: WG592569-01
Instrument ID: HPMS9 Run Date: 11/22/16 14:41 Prep Method: 5030B/5030C/503
File ID: 9M977307 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG592569 Matrix: Soil Units: ug/L
Contract #: Cal ID: HPMS9-12-OCT-16

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Benzene	12.5	500	12.5	50	U
Carbon tetrachloride	25.0	500	25.0	50	U
Chlorobenzene	12.5	500	12.5	50	U
Chloroform	12.5	500	12.5	50	U
1,2-Dichloroethane	25.0	500	25.0	50	U
1,1-Dichloroethene	50.0	500	50.0	50	U
Methyl Ethyl Ketone	250	1000	250	50	U
Tetrachloroethene	25.0	500	25.0	50	U
Trichloroethene	25.0	500	25.0	50	U
Vinyl chloride	25.0	1000	25.0	50	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	91.7	86 - 118	PASS
1,2-Dichloroethane-d4	84.8	80 - 120	PASS
Toluene-d8	107	88 - 110	PASS
4-Bromofluorobenzene	103	86 - 115	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name: BLANK
PDF ID: 5041998
29-NOV-2016 10:10

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16111050 Run Date: 11/22/2016 Sample ID: WG592569-02
Instrument ID: HPMS9 Run Time: 15:11 Prep Method: 5030B/5030C/503
File ID: 9M977308 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG592569 Matrix: Soil Units: ug/L
QC Key: STD Lot#: STD79035 Cal ID: HPMS9-12-OCT-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Benzene	2000	1540	76.8	80 - 121	*
Carbon tetrachloride	2000	1380	68.8	65 - 140	
Chlorobenzene	2000	1970	98.6	80 - 120	
Chloroform	2000	1660	82.8	80 - 125	
1,2-Dichloroethane	2000	1510	75.5	80 - 129	*
1,1-Dichloroethene	2000	553	27.7	80 - 132	*
Methyl Ethyl Ketone	2000	1720	86.1	10 - 170	
Tetrachloroethene	2000	1880	93.9	80 - 124	
Trichloroethene	2000	1780	88.9	80 - 122	
Vinyl chloride	2000	1580	79.1	50 - 170	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	93.3	86 - 118	PASS
1,2-Dichloroethane-d4	83.9	80 - 120	PASS
Toluene-d8	106	88 - 110	PASS
4-Bromofluorobenzene	100	86 - 115	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 5045371
Report generated: 11/30/2016 13:24

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16111050 Analyst: JDS Prep Method: 5030B/5030C/503
Instrument ID: HPMS11 Matrix: TCLP Leach Method: 8260B
Workgroup (AAB#): WG592631 Units: ug/L
QC Key: STD Lot #: STD79133

Sample ID: WG592631-02 LCS File ID: 11M15351 Run Date: 11/22/2016 15:39
Sample ID: WG592631-03 LCS2 File ID: 11M15352 Run Date: 11/22/2016 16:08

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1-Dichloroethene	20.0	19.3	96.7	20.0	18.3	91.7	5.26	80 - 132	20	
1,2-Dichloroethane	20.0	20.9	105	20.0	20.2	101	3.69	80 - 129	20	
Methyl Ethyl Ketone	20.0	21.5	107	20.0	20.8	104	3.24	10 - 170	20	
Benzene	20.0	20.6	103	20.0	19.8	98.9	4.26	80 - 121	20	
Carbon tetrachloride	20.0	20.6	103	20.0	18.9	94.7	8.42	65 - 140	20	
Chlorobenzene	20.0	20.7	103	20.0	19.4	97.0	6.35	80 - 120	20	
Chloroform	20.0	20.8	104	20.0	19.8	99.1	4.82	80 - 125	20	
Tetrachloroethene	20.0	20.4	102	20.0	19.0	95.0	7.36	80 - 124	20	
Trichloroethene	20.0	19.8	98.8	20.0	17.8	89.1	10.4	80 - 122	20	
Vinyl chloride	20.0	22.4	112	20.0	22.4	112	0.167	50 - 170	20	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	99.4	97.8	80 - 120	PASS
Dibromofluoromethane	103	100	86 - 118	PASS
4-Bromofluorobenzene	101	103	86 - 115	PASS
Toluene-d8	103	102	88 - 110	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 5041999
Report generated: 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16111050
Instrument Id: HPMS11
Workgroup (AAB#): WG592631

Method: 8260
CAL ID: HPMS11-13-OCT-16
Matrix: TCLP Leach

Sample Number	Dilution	Tag	1	2	3	4
L16111050-06	10.0	DL01	101	103	99.1	102
WG592631-01	1.00	01	95.3	98.5	104	98.5
WG592631-02	1.00	01	99.4	103	101	103
WG592631-03	1.00	01	97.8	100	103	102
WG592631-04	1.00	01	101	103	106	101

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out

ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 5042004
Report generated: 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16111050
Instrument Id: HPMS9
Workgroup (AAB#): WG592569

Method: 8260
CAL ID: HPMS9 - 12-OCT-16
Matrix: TCLP Leach

Sample Number	Dilution	Tag	1	2	3	4
L16111050-02	50.0	DL01	78.3	93.1	509	116
L16111050-03	50.0	DL01	82.6	99.0	100	99.9
L16111050-04	50.0	DL01	85.6	92.7	1020	104
L16111050-05	50.0	DL01	75.4	90.8	101	105
WG592569-01	50.0	DL01	84.8	91.7	103	107
WG592569-02	50.0	DL01	83.9	93.3	100	106

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 5042004
Report generated: 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16111050 Run Date: 11/22/2016 Sample ID: WG592565-02

Instrument ID: HPMS9 Run Time: 10:39 Method: 8260B

File ID: 9M977299 Analyst: FJB QC Key: STD

Workgroup (AAB#): WG592569 Cal ID: HPMS9 - 12-OCT-16

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloropropane	CCC	50.0	46.0	ug/L	0.256	7.95	20	
Ethylbenzene	CCC	50.0	48.6	ug/L	0.526	2.76	20	
Toluene	CCC	50.0	46.0	ug/L	1.47	8.03	20	
Chloroform	CCC	50.0	44.8	ug/L	0.437	10.5	20	
1,1-Dichloroethene	CCC	50.0	44.2	ug/L	0.384	11.7	20	
Vinyl Chloride	CCC	50.0	53.2	ug/L	0.375	6.31	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	44.6	ug/L	0.899	10.8	20	
1,1-Dichloroethane	SPCC	50.0	45.3	ug/L	0.468	9.36	20	
Bromoform	SPCC	50.0	51.0	ug/L	0.269	1.92	20	
Chloromethane	SPCC	50.0	39.5	ug/L	0.412	20.9	20	*
Chlorobenzene	SPCC	50.0	48.5	ug/L	0.976	3.07	20	
Benzene		50.0	46.3	ug/L	0.949	7.42	20	
Carbon Tetrachloride		50.0	44.5	ug/L	0.339	10.9	20	
1,2-Dichloroethane		50.0	43.2	ug/L	0.354	13.6	20	
2-Butanone		50.0	46.8	ug/L	0.130	6.33	20	
Tetrachloroethene		50.0	48.5	ug/L	0.285	3.08	20	
Trichloroethene		50.0	50.8	ug/L	0.277	1.51	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 5042002
Report generated 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16111050
Run Date: 11/22/2016
Sample ID: WG592630-02
Instrument ID: HPMS11
Run Time: 14:01
Method: 8260B
File ID: 11M15348
Analyst: JDS
QC Key: STD
Workgroup (AAB#): WG592631
Cal ID: HPMS11 - 13-OCT-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,2-Dichloropropane	CCC	50.0	48.2	ug/L	0.322	3.57	20	
Ethylbenzene	CCC	50.0	48.6	ug/L	0.555	2.84	20	
Toluene	CCC	50.0	49.2	ug/L	1.55	1.56	20	
Chloroform	CCC	50.0	47.7	ug/L	0.501	4.66	20	
1,1-Dichloroethene	CCC	50.0	51.1	ug/L	0.528	2.25	20	
Vinyl Chloride	CCC	50.0	53.2	ug/L	0.442	6.47	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	51.4	ug/L	0.725	2.80	20	
1,1-Dichloroethane	SPCC	50.0	48.0	ug/L	0.576	3.95	20	
Bromoform	SPCC	50.0	51.5	ug/L	0.274	2.90	20	
Chloromethane	SPCC	50.0	57.8	ug/L	0.538	15.7	20	
Chlorobenzene	SPCC	50.0	48.1	ug/L	1.07	3.86	20	
Benzene		50.0	48.2	ug/L	1.09	3.60	20	
Carbon Tetrachloride		50.0	49.8	ug/L	0.431	0.494	20	
1,2-Dichloroethane		50.0	48.2	ug/L	0.436	3.54	20	
2-Butanone		50.0	43.8	ug/L	0.143	12.4	20	
Tetrachloroethene		50.0	47.1	ug/L	0.322	5.79	20	
Trichloroethene		50.0	46.7	ug/L	0.306	6.63	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 5042002
Report generated 11/29/2016 10:10

Calibration Table Report

Method: A9FOOWT.M

Title: Appendix IX (SOP:OVL MSV01) Water 081516 HPMS11

Last Calibration: Tue Aug 16 08:51:14 2016

Curve: WG580279

Calibration Files

	Compound	5 11M13629.D	20 11M13630.D	50 11M13631.D	100 11M13632.D	200 11M13633.D	300 11M13634.D	400 11M13635.D	500 11M13636.D	Avg	%RSD	Linear	Quadratic
I	Fluorobenzene	ISTD											
T	Acetonitrile	0.023	0.028	0.031	0.032	0.030	0.030	0.031	0.031	0.030	9.602		
T	3-Chloro-1-propene	0.458	0.455	0.479	0.505	0.501	0.481	0.479	0.471	0.479	3.715		
T	2-Chloro-1,3-butadiene	0.450	0.440	0.476	0.519	0.524	0.502	0.502	0.496	0.489	6.315		
T	Methacrylonitrile	0.156	0.164	0.181	0.186	0.186	0.180	0.181	0.184	0.177	6.206		
T	Isobutyl Alcohol		0.009	0.011	0.011	0.011	0.011	0.012	0.012	0.011	8.727		
T	1-Butanol			0.005	0.006	0.006	0.006	0.006	0.007	0.006	10.257		
T	Cyclohexanone		0.013	0.017	0.017	0.018	0.018	0.019	0.020	0.017	11.772		
T	2-Nitropropane			0.076	0.085	0.089	0.087	0.089	0.091	0.086	6.168		
T	Ethyl Acetate	0.201	0.224	0.244	0.257	0.258	0.249	0.251	0.255	0.242	8.192		
T	Methyl methacrylate	0.177	0.197	0.221	0.234	0.238	0.230	0.233	0.236	0.221	10.109		
I	Chlorobenzene-d5	ISTD											
I	1,4-Dichlorobenzene-d4	ISTD											

Tue Aug 16 09:27:52 2016

Calibration Table Report

Method: 8260WT.M

Title: 8260B/624 (SOP: OVL MSV01) Water 101316 HPMS11

Last Calibration: Fri Oct 14 09:20:10 2016

Curve: WG587480

Calibration Files

	Compound	0.3 11M14501.D	0.4 11M14502.D	1 11M14503.D	2 11M14504.D	5 11M14505.D	20 11M14506.D	50 11M14507.D	100 11M14508.D	200 11M14509.D	300 11M14510.D	Avg	%RSD	Linear	Quadratic
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane			0.401	0.356	0.382	0.443	0.465	0.462	0.447	0.436	0.424	9.339		
P	Chloromethane			0.600	0.411	0.448	0.450	0.446	0.436			0.465	14.492		
C	Vinyl Chloride		0.444	0.414	0.383	0.405	0.414	0.432	0.425	0.414	0.402	0.415	4.276		
T	1,3-Butadiene					0.396	0.400	0.340	0.299	0.293	0.298	0.338	14.694		
T	Bromomethane			0.198	0.189	0.186	0.177	0.196	0.212	0.221	0.229	0.201	8.942		
T	Chloroethane			0.234	0.236	0.242	0.245	0.252	0.248	0.244	0.243	0.243	2.364		
T	Trichlorofluoromethane		0.405	0.496	0.460	0.506	0.486	0.507	0.502	0.490	0.494	0.483	6.725		
T	Diethyl ether			0.221	0.229	0.247	0.241	0.239	0.240		0.236	0.236	3.739		
T	Isoprene					0.431	0.443	0.444	0.445	0.436	0.445	0.441	1.343		
T	Acrolein			0.023	0.017	0.021	0.019	0.018	0.019		0.020	0.020	10.804		
T	1,1,2-Trichloro-1,2,2-Trifluor			0.246	0.240	0.259	0.262	0.274	0.269	0.262	0.266	0.260	4.446		
T	Acetone					0.110	0.094	0.091	0.094	0.100	0.094	0.097	7.304		
C	1,1-Dichloroethene		0.497	0.484	0.509	0.519	0.515	0.539	0.537	0.519	0.525	0.516	3.420		
T	Tert-Butyl Alcohol			0.023	0.023	0.027	0.026	0.024	0.026		0.027	0.025	7.707		
T	Dimethyl Sulfide					0.352	0.353	0.354	0.357	0.351	0.354	0.354	0.652		
T	Iodomethane			0.145	0.169	0.230	0.334	0.349	0.339	0.305	0.284	0.269	29.353		1.000
T	Methyl acetate				0.275	0.302	0.289	0.274	0.284	0.287	0.292	0.286	3.435		
T	Methylene Chloride		0.310	0.311	0.286	0.289	0.290	0.297	0.290	0.283	0.284	0.293	3.636		
T	Carbon Disulfide			0.886	0.836	0.845	0.870	0.871	0.867	0.837	0.830	0.855	2.402		
T	Acrylonitrile			0.117	0.116	0.131	0.132	0.134	0.137		0.146	0.130	8.262		
T	Methyl Tert Butyl Ether			0.682	0.669	0.721	0.738	0.737	0.739	0.740	0.743	0.721	4.063		
T	trans-1,2-Dichloroethene		0.301	0.287	0.293	0.294	0.284	0.296	0.296	0.288	0.291	0.292	1.802		
T	n-Hexane				0.471	0.478	0.520	0.516	0.512	0.493	0.509	0.500	3.901		
T	Diisopropyl ether			1.361	1.391	1.483	1.466	1.443	1.423		1.331	1.414	3.949		
T	Vinyl Acetate					0.769	0.767	0.764	0.751	0.757	0.728	0.756	2.003		
P	1,1-Dichloroethane		0.623	0.591	0.567	0.614	0.597	0.617	0.606	0.588	0.589	0.599	2.948		
T	Ethyl-Tert-Butyl ether			0.992	1.028	1.092	1.079	1.060	1.060		1.030	1.049	3.286		
T	2-Butanone					0.171	0.164	0.158	0.161	0.164	0.161	0.163	2.798		
T	Propionitrile			0.045	0.042	0.047	0.047	0.044	0.046		0.046	0.045	3.842		
T	2,2-Dichloropropane		0.467	0.393	0.387	0.412	0.396	0.413	0.408	0.399	0.401	0.408	5.773		
T	cis-1,2-Dichloroethene		0.342	0.281	0.326	0.324	0.319	0.335	0.329	0.320	0.321	0.322	5.277		
C	Chloroform	0.591	0.531	0.549	0.500	0.533	0.510	0.523	0.515	0.503	0.502	0.526	5.310		
T	1-Bromopropane				0.049	0.053	0.056	0.056	0.058	0.056	0.059	0.055	5.845		
T	Bromochloromethane		0.209	0.200	0.210	0.211	0.212	0.209	0.207	0.204	0.206	0.208	1.767		
T	Tetrahydrofuran			0.166	0.112	0.117	0.115	0.107	0.109		0.108	0.119	17.669	0.999	
S	Dibromofluoromethane				0.288	0.307	0.308	0.305	0.307	0.293	0.296	0.301	2.637		
T	1,1,1-Trichloroethane		0.459	0.460	0.440	0.454	0.454	0.480	0.479	0.472	0.474	0.464	2.918		
T	Cyclohexane		0.638	0.670	0.662	0.708	0.686	0.695	0.695	0.676	0.687	0.680	3.076		
T	1,1-Dichloropropene		0.402	0.392	0.357	0.390	0.371	0.394	0.389	0.379	0.380	0.384	3.525		
T	Carbon Tetrachloride		0.413	0.434	0.402	0.427	0.432	0.454	0.448	0.442	0.445	0.433	3.928		
T	Tert-Amyl-Methyl ether			0.672	0.675	0.739	0.737	0.715	0.723		0.710	0.710	3.826		
S	1,2-Dichloroethane-d4				0.332	0.343	0.349	0.341	0.341	0.327	0.331	0.338	2.297		
T	1,2-Dichloroethane		0.440	0.453	0.422	0.463	0.460	0.464	0.462	0.454	0.448	0.452	3.049		
T	Benzene		1.150	1.207	1.118	1.174	1.146	1.171	1.139	1.076	1.022	1.134	4.926		
T	Trichloroethene		0.343	0.319	0.311	0.334	0.325	0.333	0.332	0.324	0.329	0.328	2.809		
T	Methylcyclohexane		0.411	0.454	0.418	0.439	0.459	0.456	0.461	0.446	0.456	0.444	4.104		
C	1,2-Dichloropropane		0.329	0.323	0.316	0.350	0.339	0.343	0.341	0.333	0.334	0.334	3.170		
T	1,4-Dioxane				0.002	0.002	0.002	0.002	0.002		0.003	0.002	10.172		
T	Bromodichloromethane		0.400	0.386	0.363	0.405	0.395	0.412	0.409	0.402	0.403	0.397	3.746		
T	Dibromomethane		0.198	0.166	0.174	0.171	0.174	0.178	0.180	0.175	0.176	0.177	4.959		
T	2-Chloroethyl Vinyl Ether					0.182	0.194	0.194	0.201	0.203	0.201	0.196	3.929		
T	4-Methyl-2-Pentanone					0.114	0.116	0.115	0.121	0.127	0.128	0.120	5.086		
T	cis-1,3-Dichloropropene		0.423	0.405	0.392	0.437	0.456	0.466	0.463	0.456	0.454	0.439	6.087		
T	Dimethyl Disulfide					0.219	0.255	0.268	0.277	0.279	0.283	0.264	9.215		

I	Chlorobenzene-d5	ISTD											
S	Toluene-d8				1.329	1.388	1.379	1.343	1.346	1.248	1.240	1.325	4.444
C	Toluene		1.590	1.657	1.547	1.684	1.662	1.627	1.587	1.463	1.352	1.574	6.824
T	Ethyl Methacrylate			0.318	0.370	0.392	0.434	0.412	0.425	0.436	0.431	0.402	10.197
T	trans-1,3-Dichloropropene			0.481	0.479	0.515	0.536	0.533	0.535	0.529	0.516	0.515	4.559
T	1,1,2-Trichloroethane		0.276	0.310	0.286	0.321	0.325	0.316	0.310	0.309	0.304	0.306	5.213
T	2-Hexanone					0.328	0.323	0.306	0.325	0.349	0.350	0.330	5.055
T	1,3-Dichloropropane		0.564	0.503	0.475	0.544	0.532	0.514	0.511	0.502	0.488	0.515	5.413
T	Tetrachloroethene		0.357	0.390	0.314	0.339	0.346	0.337	0.335	0.328	0.330	0.342	6.393
T	Dibromochloromethane		0.397	0.375	0.376	0.416	0.429	0.420	0.428	0.429	0.425	0.411	5.410
T	1,2-Dibromoethane		0.323	0.295	0.293	0.319	0.334	0.317	0.320	0.320	0.317	0.315	4.182
T	1-Chlorohexane		0.473	0.516	0.461	0.512	0.529	0.523	0.525	0.518	0.515	0.508	4.714
P	Chlorobenzene		1.234	1.172	1.089	1.173	1.134	1.124	1.104	1.048	0.977	1.117	6.729
T	1,1,1,2-Tetrachloroethane		0.334	0.391	0.388	0.426	0.411	0.412	0.410	0.410	0.404	0.398	6.717
C	Ethylbenzene		0.553	0.607	0.537	0.582	0.585	0.588	0.573	0.567	0.549	0.571	3.886
T	m-,p-Xylene		0.695	0.678	0.665	0.716	0.707	0.694	0.684	0.635	0.583	0.673	6.156
T	o-Xylene		0.629	0.672	0.600	0.669	0.688	0.691	0.686	0.673	0.650	0.662	4.620
T	Styrene		1.061	1.059	1.044	1.159	1.191	1.196	1.187	1.147	1.070	1.124	5.688
P	Bromoform			0.223	0.229	0.254	0.273	0.273	0.278	0.298	0.303	0.266	10.978
T	Isopropylbenzene		1.737	1.686	1.635	1.777	1.780	1.780	1.760	1.644	1.465	1.696	6.131
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane		0.736	0.683	0.668	0.745	0.724	0.696	0.718	0.693	0.683	0.705	3.745
S	p-Bromofluorobenzene				1.024	1.101	1.033	0.999	1.034	0.918	0.893	1.000	7.208
T	1,2,3-Trichloropropane			0.191	0.206	0.228	0.226	0.214	0.220	0.214	0.210	0.214	5.547
T	trans-1,4-Dichloro-2-Butene			0.250	0.250	0.272	0.316	0.295	0.311	0.306	0.304	0.288	9.383
T	n-Propylbenzene		3.897	3.725	3.669	4.141	4.053	4.048	3.949	3.271	2.723	3.720	12.310
T	Bromobenzene	1.078	1.052	0.932	0.941	0.973	0.962	0.942	0.952	0.872	0.830	0.953	7.692
T	1,3,5-Trimethylbenzene		2.705	2.533	2.644	2.815	2.903	2.856	2.853	2.504	2.198	2.668	8.522
T	2-Chlorotoluene		2.556	2.381	2.372	2.557	2.499	2.459	2.413	2.101	1.846	2.354	9.971
T	4-Chlorotoluene		2.512	2.623	2.353	2.695	2.559	2.536	2.490	2.213	1.594	2.397	13.898
T	a-Methylstyrene			1.535	1.396	1.581	1.678	1.639	1.685	1.554	1.477	1.568	6.380
T	tert-Butylbenzene		0.512	0.572	0.570	0.646	0.609	0.617	0.612	0.568	0.546	0.584	7.055
T	1,2,4-Trimethylbenzene		2.790	2.701	2.623	2.973	2.949	2.943	2.917	2.562	2.242	2.745	8.807
T	sec-Butylbenzene			3.527	3.319	3.664	3.587	3.624	3.586	3.083	2.638	3.378	10.557
T	p-Isopropyltoluene			2.850	2.872	3.164	3.118	3.166	3.160	2.780	2.410	2.940	9.098
T	1,3-Dichlorobenzene		1.939	1.745	1.670	1.831	1.825	1.783	1.803	1.658	1.565	1.758	6.373
T	1,4-Dichlorobenzene	1.992	1.832	1.939	1.755	1.868	1.788	1.791	1.818	1.664	1.563	1.801	6.911
T	n-Butylbenzene		2.959	2.701	2.657	2.875	2.875	2.919	2.924	2.623	2.290	2.758	7.817
T	1,2-Dichlorobenzene	1.777	1.675	1.662	1.599	1.787	1.702	1.684	1.740	1.619	1.545	1.679	4.612
T	1,2-Dibromo-3-Chloropropane				0.121	0.127	0.134	0.132	0.141	0.147	0.146	0.136	7.229
T	1,2,4-Trichlorobenzene		1.356	1.210	1.068	1.225	1.224	1.248	1.311	1.319	1.246	1.245	6.695
T	Hexachlorobutadiene		0.541	0.460	0.439	0.496	0.465	0.472	0.508	0.511	0.495	0.487	6.436
T	Naphthalene		2.466	2.353	2.270	2.667	2.788	2.758	2.883	2.765	2.348	2.589	8.875
T	1,2,3-Trichlorobenzene	1.536	1.173	1.135	1.049	1.125	1.176	1.155	1.233	1.256	1.177	1.201	10.880

Fri Oct 14 09:30:30 2016

Calibration Table Report
Method: A9FOO_SL.M
Title: FOO/APPIX SOIL 01/25/16 SOP: OVL MSV01
Last Calibration: Wed Jan 27 09:49:02 2016
Curve: WG555000
Calibration Files

Compound	5 9M972472.D	20 9M972473.D	50 9M972474.D	100 9M972475.D	200 9M972476.D	300 9M972477.D	400 9M972478.D	500 9M972479.D	Avg	%RSD	R^2 Linear
Fluorobenzene	ISTD										
Acetonitrile		0.053	0.046	0.048	0.052	0.046	0.052	0.054	0.050	6.657	
3-Chloro-1-propene	0.498	0.524	0.450	0.519	0.514	0.434	0.507	0.503	0.494	6.719	
2-Chloro-1,3-butadiene	0.534	0.576	0.519	0.592	0.585	0.509	0.593	0.584	0.561	6.202	
Ethyl Acetate		0.333	0.313	0.339	0.338	0.300	0.341	0.344	0.330	5.124	
Methacrylonitrile	0.102	0.109	0.101	0.112	0.110	0.096	0.112	0.112	0.107	5.912	
Isobutyl Alcohol	0.014	0.018	0.018	0.021	0.024	0.021	0.025	0.025	0.021	18.016	0.993
1-Butanol		0.010	0.013	0.015	0.017	0.015	0.018	0.018	0.015	17.838	0.992
Methyl methacrylate	0.236	0.246	0.231	0.265	0.265	0.231	0.271	0.269	0.252	7.005	
2-Nitropropane	0.069	0.073	0.074	0.083	0.089	0.079	0.093	0.095	0.082	12.090	
Chlorobenzene-d5	ISTD										
Cyclohexanone		0.020	0.022	0.025	0.028	0.023	0.027	0.028	0.025	12.963	
1,4-Dichlorobenzene-d4	ISTD										

Wed Jan 27 10:01:56 2016

Calibration Table Report
Method: 8260SL.M
Title: 8260(B) SOP: OVL MSV01 SOIL 10/12/16 HPMS9
Last Calibration: Wed Oct 12 17:29:51 2016
Curve: WG587311
Calibration Files

Compound	0.5 9M976612.D	1 9M976613.D	2 9M976614.D	5 9M976615.D	20 9M976616.D	50 9M976617.D	100 9M976618.D	200 9M976619.D	300 9M976620.D	Avg	%RSD	R^2 Linear	Quadratic
Fluorobenzene	ISTD												
Dichlorodifluoromethane		0.330	0.374	0.362	0.364	0.384	0.350			0.361	5.253		
Chloromethane			0.636	0.547	0.540	0.526	0.484	0.454	0.456	0.520	12.239		
Vinyl Chloride	0.415	0.345	0.359	0.390	0.356	0.340	0.261			0.352	13.710		
1,3-Butadiene		0.134	0.189	0.211	0.162	0.162	0.122			0.163	20.337		0.998
Bromomethane		0.221	0.232	0.209	0.203	0.201	0.197	0.191	0.205	0.207	6.340		
Chloroethane			0.190	0.187	0.196	0.212	0.203	0.188	0.196	0.196	4.642		
Trichlorofluoromethane		0.424	0.448	0.459	0.475	0.471	0.460	0.412	0.412	0.445	5.802		
Diethyl ether		0.219	0.229	0.232	0.243	0.239	0.242		0.214	0.231	4.920		
Isoprene			0.355	0.361	0.387	0.386	0.388	0.351	0.363	0.370	4.385		
Acrolein			0.033	0.033	0.037	0.033	0.036		0.032	0.034	5.506		
1,1,2-Trichloro-1,2,2-Trifluoroethane			0.246	0.258	0.268	0.258	0.257	0.234	0.239	0.251	4.824		
Acetone				0.213	0.120	0.100	0.093	0.088	0.083	0.116	42.333	0.999	
1,1-Dichloroethene			0.444	0.441	0.459	0.458	0.445	0.398	0.397	0.435	6.027		
Tert-Butyl Alcohol				0.041	0.038	0.038	0.041		0.046	0.041	8.250		
Dimethyl Sulfide		0.242	0.253	0.261	0.274	0.279	0.285	0.259	0.265	0.265	5.331		
Iodomethane			0.135	0.145	0.193	0.232	0.243	0.228	0.236	0.202	22.353	0.999	
Methyl acetate			0.279	0.282	0.260	0.249	0.259	0.237	0.235	0.257	7.224		
Methylene Chloride				0.323	0.298	0.298	0.287	0.261	0.271	0.290	7.608		
Carbon Disulfide			0.947	0.853	0.860	0.842	0.813	0.702	0.655	0.810	12.318		
Acrylonitrile			0.104	0.108	0.115	0.116	0.121		0.115	0.113	5.460		
Methyl Tert Butyl Ether		0.781	0.776	0.770	0.786	0.778	0.785	0.700	0.695	0.759	5.047		
trans-1,2-Dichloroethene		0.451	0.406	0.414	0.437	0.425	0.423	0.372	0.369	0.412	7.027		
n-Hexane			0.409	0.425	0.418	0.400	0.407	0.387	0.383	0.404	3.808		
Diisopropyl ether		0.872	0.905	0.904	0.957	0.932	0.905		0.754	0.890	7.368		
Vinyl Acetate			0.400	0.456	0.451	0.430	0.448	0.401	0.388	0.425	6.665		
1,1-Dichloroethane		0.523	0.522	0.529	0.545	0.539	0.534	0.467	0.468	0.516	6.015		
Ethyl-Tert-Butyl ether		0.827	0.884	0.878	0.929	0.907	0.891		0.752	0.867	6.884		
2-Butanone				0.155	0.140	0.135	0.141	0.135	0.130	0.139	6.341		
Propionitrile		0.036	0.037	0.041	0.042	0.041	0.044		0.042	0.040	7.120		
2,2-Dichloropropane			0.406	0.408	0.415	0.416	0.414	0.372	0.379	0.401	4.512		
cis-1,2-Dichloroethene		0.327	0.297	0.291	0.312	0.308	0.308	0.272	0.279	0.299	6.048		
Chloroform		0.526	0.509	0.493	0.516	0.504	0.497	0.431	0.428	0.488	7.683		
1-Bromopropane			0.041	0.048	0.053	0.053	0.053	0.048	0.050	0.049	9.123		
Bromochloromethane		0.177	0.196	0.185	0.191	0.188	0.190	0.172	0.176	0.184	4.592		
Tetrahydrofuran			0.102	0.102	0.100	0.096	0.100		0.085	0.097	6.712		
Dibromofluoromethane		0.245	0.268	0.273	0.290	0.285	0.280	0.257	0.256	0.269	5.810		
1,1,1-Trichloroethane		0.443	0.424	0.437	0.459	0.451	0.449	0.396	0.402	0.433	5.382		
Cyclohexane		0.491	0.475	0.488	0.515	0.503	0.498	0.438	0.435	0.480	6.112		
1,1-Dichloropropene		0.376	0.370	0.367	0.388	0.388	0.379	0.334	0.336	0.367	5.835		
Tert-Amyl-Methyl ether		0.704	0.749	0.747	0.787	0.765	0.756		0.643	0.736	6.531		
Carbon Tetrachloride			0.37797	0.37381	0.40497	0.39644	0.39792	0.3536	0.35609	0.38011	5.39769		
1,2-Dichloroethane-d4		0.34661	0.35451	0.34394	0.35068	0.34129	0.33007	0.30708	0.29238	0.33332	6.68843		
Heptane										0	0		
1,2-Dichloroethane		0.41368	0.43822	0.41955	0.43722	0.42841	0.41535	0.36681	0.35801	0.40966	7.4819		
Benzene		1.17422	1.09959	1.08459	1.1009	1.08456	1.03484	0.84604	0.77145	1.02452	13.6599		
Trichloroethene		0.4054	0.34534	0.30914	0.30153	0.29691	0.29259	0.25921	0.26446	0.30932	15.2359	0.997	
Methylcyclohexane		0.45879	0.46739	0.47412	0.48993	0.47851	0.47888	0.42983	0.42701	0.46306	5.01452		
1,2-Dichloropropane		0.27511	0.2777	0.28742	0.29319	0.28936	0.28748	0.25342	0.25918	0.27786	5.27661		
1,4-Dioxane			0.0036	0.00412	0.00415	0.00471	0.00452		0.00473	0.0043	10.1025		
Bromodichloromethane			0.3818	0.3775	0.39596	0.39328	0.38862	0.34277	0.34442	0.37491	5.94968		
Dibromomethane		0.15508	0.16728	0.16502	0.17181	0.16974	0.1714	0.15546	0.1591	0.16436	4.21524		
2-Chloroethyl Vinyl Ether		0.13611	0.14725	0.15999	0.17792	0.17816	0.18809	0.17187	0.17445	0.16673	10.5366		
4-Methyl-2-Pentanone				0.11265	0.11638	0.11556	0.12241	0.11645	0.11679	0.11671	2.72249		
cis-1,3-Dichloropropene			0.42091	0.41189	0.4322	0.43588	0.44227	0.38749	0.38505	0.41653	5.50747		
Dimethyl Disulfide			0.41231	0.42189	0.47067	0.49404	0.51585	0.46542	0.46718	0.46391	7.91652		
Chlorobenzene-d5	ISTD												
Toluene-d8		1.32344	1.42257	1.39559	1.46429	1.41966	1.31411	1.1179	0.94978	1.30092	13.69		
Toluene		1.89244	1.67934	1.62521	1.67459	1.62094	1.50824	1.20634		1.60101	13.0478		
Ethyl Methacrylate				0.43314	0.47188	0.48852	0.50914	0.46488	0.45253	0.47001	5.68401		
trans-1,3-Dichloropropene			0.48513	0.5158	0.56483	0.57341	0.57138	0.50338	0.48126	0.52788	7.76414		
1,1,2-Trichloroethane		0.32524	0.33635	0.34794	0.35256	0.34801	0.34245	0.3098	0.30111	0.33293	5.72997		
2-Hexanone				0.26883	0.29294	0.29224	0.31018	0.30358	0.29528	0.29384	4.79611		
1,3-Dichloropropane		0.53892	0.57311	0.57259	0.58886	0.57646	0.56839	0.50227	0.48034	0.55012	7.15515		
Tetrachloroethene		0.2873	0.29651	0.30375	0.31487	0.30877	0.30128	0.2721	0.26755	0.29402	5.79504		
Dibromochloromethane			0.40646	0.38848	0.41818	0.41975	0.42297	0.38369	0.3805	0.40286	4.54509		
1,2-Dibromoethane				0.34254	0.3483	0.34738	0.34686	0.31454	0.30906	0.33478	5.37471		
1-Chlorohexane		0.50002	0.50423	0.50107	0.53977	0.52827	0.53305	0.47721	0.46099	0.50557	5.43455		
Chlorobenzene		1.08257	1.10647	1.04722	1.0786	1.06258	1.02474	0.86931	0.78472	1.00703	11.5145		
1,1,1,2-Tetrachloroethane			0.35779	0.3694	0.39327	0.3957	0.39725	0.35593	0.35712	0.37521	5.18192		
Ethylbenzene		0.54933	0.5188	0.55261	0.57869	0.57052	0.56909	0.50246	0.48852	0.54125	6.25249		
m-,p-Xylene	0.61717	0.70132	0.64616	0.66838	0.70124	0.68886	0.65509	0.53713	0.46234	0.63085	12.8881		
o-Xylene		0.70522	0.61256	0.65111	0.67183	0.66997	0.66772	0.58975	0.57533	0.64294	7.06589		
Styrene		0.98447	0.97885	1.03427	1.13809	1.13507	1.11021	0.94696	0.84722	1.02189	10.0371		
Bromoform			0.22549	0.24391	0.26388	0.27333	0.28443	0.27359	0.28385	0.26407	8.29264		
Isopropylbenzene		1.82555	1.64314	1.68973	1.77218	1.73051	1.638	1.30525		1.65777	10.2261		
1,4-Dichlorobenzene-d4	ISTD												
1,1,2,2-Tetrachloroethane		0.93898	1.01211	1.12206	1.06236	1.02961	1.0581	0.92337	0.91816	1.00809	7.40012		
p-Bromofluorobenzene				1.21114	1.26546	1.21259	1.169	0.98927	0.96267	1.13502	11.2088		
1,2,3-Trichloropropane			0.29528	0.313	0.31171	0.2944	0.30224	0.27335	0.27918	0.29559	5.11732		

trans-1,4-Dichloro-2-Butene		0.26256	0.2947	0.31917	0.30884	0.3222	0.29278	0.29214	0.29891	6.79326	
n-Propylbenzene	7.05725	4.6091	5.21684	5.00225	4.58342	4.0704			5.08988	20.4579	0.995
Bromobenzene	0.97995	1.02482	0.96902	1.0054	0.97473	0.96277	0.77675	0.79646	0.93624	10.1149	
1,3,5-Trimethylbenzene		3.12382	3.73427	3.56908	3.40009	3.05013			3.37548	8.58632	
2-Chlorotoluene	3.45776	2.99754	2.88127	2.96035	2.89499	2.72848			2.98673	8.32217	
4-Chlorotoluene	2.68969	3.06906	3.05712	3.07242	2.81016	2.59788			2.88272	7.35519	
a-Methylstyrene			1.5911	1.71622	1.7348	1.72329	1.40488	1.35438	1.58744	10.7058	
tert-Butylbenzene			0.68633	0.70858	0.6877	0.69237	0.55968	0.57488	0.65159	10.1233	
1,2,4-Trimethylbenzene		3.29631	4.96077	3.89023	3.475	3.11894	2.29027	1.93687	3.2812	30.5911	1.006
sec-Butylbenzene	4.54013	4.23589	4.36216	4.48159	4.25724	3.9286			4.30094	5.07669	
p-Isopropyltoluene	3.69219	3.35321	3.64725	3.69205	3.51739	3.35487	2.42232		3.38275	13.2401	
1,3-Dichlorobenzene	1.90217	1.93787	1.86413	1.90732	1.83218	1.79993	1.4748	1.38976	1.76352	11.9237	
1,4-Dichlorobenzene	2.11798	2.03176	1.91597	1.89301	1.8212	1.80103	1.48812	1.38343	1.80656	14.0009	
n-Butylbenzene	3.76068	3.32881	3.49114	3.56789	3.39863	3.21967			3.46113	5.50848	
1,2-Dichlorobenzene	1.80078	1.84072	1.77477	1.801	1.77393	1.76824	1.49996	1.4027	1.70776	9.48821	
1,2-Dibromo-3-Chloropropane		0.17845	0.20222	0.21911	0.24389	0.2583	0.23509	0.23237	0.22421	11.9922	
1,2,4-Trichlorobenzene		1.22519	1.18861	1.19213	1.30897	1.29118	1.11744	1.07852	1.20029	7.01922	
Hexachlorobutadiene	0.60171	0.62069	0.67023	0.6636	0.66285	0.70503	0.60898	0.63161	0.64559	5.50556	
Naphthalene	3.19373	3.08087	3.06179	3.19724	3.69898	3.24176	2.42372		3.1283	12.0366	
1,2,3-Trichlorobenzene		1.25263	1.18116	1.172	1.34442	1.27376	1.09575	1.04868	1.19549	8.62746	

Thu Oct 13 11:54:57 2016

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16111050 Run Date: 10/13/2016 Sample ID: WG587480-12
Instrument ID: HPMS11 Run Time: 19:00 Method: 8260B
File ID: 11M14512 Analyst: FJB QC Key: STD
ICal Workgroup: WG587480 Cal ID: HPMS11 - 13-OCT-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.0	ug/L	0.536	1.90	20	
1,1-Dichloroethene	CCC	50.0	50.2	ug/L	0.518	0.300	20	
Vinyl Chloride	CCC	50.0	55.5	ug/L	0.460	11.0	20	
Chloromethane	SPCC	50.0	51.7	ug/L	0.481	3.30	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.9	ug/L	0.718	1.90	20	
1,1-Dichloroethane	SPCC	50.0	51.1	ug/L	0.613	2.30	20	
Bromoform	SPCC	50.0	50.2	ug/L	0.268	0.500	20	
Chlorobenzene	SPCC	50.0	49.5	ug/L	1.11	1.00	20	
Benzene		50.0	52.0	ug/L	1.18	4.00	20	
Carbon Tetrachloride		50.0	52.9	ug/L	0.458	5.70	20	
1,2-Dichloroethane		50.0	50.8	ug/L	0.459	1.60	20	
2-Butanone		50.0	52.5	ug/L	0.171	4.90	20	
Tetrachloroethene		50.0	51.2	ug/L	0.350	2.50	20	
Trichloroethene		50.0	51.3	ug/L	0.337	2.60	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 5042000
Report generated 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.

ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16111050 Run Date: 10/13/2016 Sample ID: WG587311-11

Instrument ID: HPMS9 Run Time: 12:47 Method: 8260B

File ID: 9M976644 Analyst: ADC QC Key: STD

ICal Workgroup: WG587311 Cal ID: HPMS9 - 12-OCT-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	45.4	ug/kg	0.444	9.10	20	
1,1-Dichloroethene	CCC	50.0	43.1	ug/kg	0.375	13.7	20	
Vinyl Chloride	CCC	50.0	37.7	ug/kg	0.266	24.6	20	*
1,1-Dichloroethane	SPCC	50.0	43.8	ug/kg	0.452	12.3	20	
Bromoform	SPCC	50.0	46.2	ug/kg	0.244	7.70	20	
Chloromethane	SPCC	50.0	51.8	ug/kg	0.539	3.60	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	47.3	ug/kg	0.953	5.50	20	
Chlorobenzene	SPCC	50.0	46.5	ug/kg	0.937	7.00	20	
Benzene		50.0	44.7	ug/kg	0.916	10.6	20	
Carbon Tetrachloride		50.0	46.3	ug/kg	0.352	7.40	20	
1,2-Dichloroethane		50.0	43.7	ug/kg	0.358	12.6	20	
2-Butanone		50.0	46.4	ug/kg	0.129	7.30	20	
Tetrachloroethene		50.0	49.3	ug/kg	0.290	1.50	20	
Trichloroethene		50.0	46.7	ug/kg	0.255	6.50	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 5042000
Report generated 11/29/2016 10:10

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY

(COMPARED TO CCV)

Login Number: L16111050

Instrument ID: HPMS9

Workgroup (AAB#): WG592569

CCV Number: WG592565-02

CAL ID: HPMS9-12-OCT-16

Matrix: TCLP

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG592565-02	NA	NA	304920	693190	1004575
Upper Limit	NA	NA	609840	1386380	2009150
Lower Limit	NA	NA	152460	346595	502288
L16111050-02	50.0	DL01	196448	572407	877257
L16111050-03	50.0	DL01	290487	564198	745276
L16111050-04	50.0	DL01	127621	621009	818967
L16111050-05	50.0	DL01	256478	591044	864133
WG592569-01	50.0	DL01	244221	588823	881922
WG592569-02	50.0	DL01	281665	644937	953239

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008

PDF File ID: 5042003

Report generated 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L16111050
Instrument ID: HPMS11
Workgroup (AAB#): WG592631

CCV Number: WG592630-02
CAL ID: HPMS11-13-OCT-16
Matrix: TCLP

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG592630-02	NA	NA	246657	516476	644963
Upper Limit	NA	NA	493314	1032952	1289926
Lower Limit	NA	NA	123329	258238	322482
L16111050-06	10.0	DL01	184222	387434	515596
WG591458-01	10.0	DL01	157317	344809	470805
WG591822-01	10.0	DL01	170791	358224	492353
WG592420-01	10.0	DL01	158863	349612	466960
WG592631-01	1.00	01	185682	412700	558765
WG592631-02	1.00	01	203484	412455	551238
WG592631-03	1.00	01	207267	425911	584765
WG592631-04	1.00	01	170468	369114	492747

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 5042003
Report generated 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY

(COMPARED TO CCV)

Login Number: L16111050

Instrument ID: HPMS9

Workgroup (AAB#): WG592569

CCV Number: WG592565-02

CAL ID: HPMS9-12-OCT-16

Matrix: TCLP

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG592565-02	NA	NA	17.7	14.67	10.79
Upper Limit	NA	NA	18.2	15.17	11.29
Lower Limit	NA	NA	17.2	14.17	10.29
L16111050-02	50.0	DL01	17.7	14.67	10.8
L16111050-03	50.0	DL01	17.7	14.67	10.8
L16111050-04	50.0	DL01	17.69	14.67	10.8
L16111050-05	50.0	DL01	17.7	14.67	10.8
WG592569-01	50.0	DL01	17.7	14.67	10.8
WG592569-02	50.0	DL01	17.7	14.67	10.79

IS-1 - 1,4-Dichlorobenzene-d4

IS-2 - Chlorobenzene-d5

IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008

PDF File ID: 5042005

Report generated 11/29/2016 10:10

Microbac Laboratories Inc.
INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L16111050
Instrument ID: HPMS11
Workgroup (AAB#): WG592631

CCV Number: WG592630-02
CAL ID: HPMS11-13-OCT-16
Matrix: TCLP

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG592630-02	NA	NA	17.01	14.2	10.57
Upper Limit	NA	NA	17.51	14.7	11.07
Lower Limit	NA	NA	16.51	13.7	10.07
L16111050-06	10.0	DL01	17.01	14.2	10.57
WG591458-01	10.0	DL01	17.01	14.2	10.57
WG591822-01	10.0	DL01	17.01	14.2	10.57
WG592420-01	10.0	DL01	17.01	14.2	10.57
WG592631-01	1.00	01	17.01	14.2	10.57
WG592631-02	1.00	01	17.01	14.2	10.57
WG592631-03	1.00	01	17.01	14.2	10.57
WG592631-04	1.00	01	17.01	14.2	10.57

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 5042005
Report generated 11/29/2016 10:10

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 012516
Analyst1: ADC Analyst2: NA
Method: 8260B/8260C SOP: MSV01(-C) Rev: 23 (2)
Method: 5030B/5030C/5035 SOP: PAT01 Rev: 18
Method: 624 SOP: MSV10 Rev: 12
Maintenance Log ID:

Internal Standard: STD74414 Surrogate Standard: STD74126
CCV: STD74488 LCS: STD74459 MS/MSD: STD74459

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG555000 (ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M972470	WG555000-01 BFB 50ng A9	NA	7	1	STD74202	01/25/16 10:27
9M972471	RINSE	NA	7	1		01/25/16 10:52
9M972472	WG555000-02 5ug/Kg STD A9	NA	7	1	STD74406	01/25/16 11:22
9M972473	WG555000-03 20ug/Kg STD A9	NA	7	1	STD74406	01/25/16 11:52
9M972474	WG555000-04 50ug/Kg STD A9	NA	7	1	STD74406	01/25/16 12:23
9M972475	WG555000-05 100ug/Kg STD A9	NA	7	1	STD74406	01/25/16 12:53
9M972476	WG555000-06 200ug/Kg STD A9	NA	7	1	STD74406	01/25/16 13:23
9M972477	WG555000-07 300ug/Kg STD A9	NA	7	1	STD74406	01/25/16 13:54
9M972478	WG555000-08 400ug/Kg STD A9	NA	7	1	STD74406	01/25/16 14:25
9M972479	WG555000-09 500ug/Kg STD A9	NA	7	1	STD74406	01/25/16 14:56
9M972480	RINSE	NA	7	1		01/25/16 15:26
9M972481	WG555000-10 100ug/Kg ICV A9	NA	7	1	STD74461	01/25/16 15:56
9M972482	RINSE	NA	7	1		01/25/16 16:28

Approved: January 29, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 081516
Analyst1: JDS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 25
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD77497 Surrogate Standard: STD77498
CCV: STD77502 LCS: STD77604 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG580279 WG580280

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M13626	XG580279-01 50ng BFB STD 8260	NA	1	1	STD77509	08/15/16 14:37
11M13628	WG580279-01 50ng BFB STD 8260	NA	1	1	STD77509	08/15/16 14:52
11M13629	WG580279-02 5ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 15:17
11M13630	WG580279-03 20ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 15:46
11M13631	WG580279-04 50ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 16:16
11M13632	WG580279-05 100ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 16:45
11M13633	WG580279-06 200ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 17:14
11M13634	WG580279-07 300ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 17:43
11M13635	WG580279-08 400ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 18:12
11M13636	WG580279-09 500ug/L ICAL STD 8260-A9	NA	1	1	STD77502	08/15/16 18:41
11M13637	RINSE	NA	1	1		08/15/16 19:10
11M13638	WG580279-10 100ug/L ALT SRC 8260-A9	NA	1	1	STD77604	08/15/16 19:39
11M13639	RINSE	NA	1	1		08/15/16 20:08
11M13640	WG580280-01 BLANK STD 8260-A9	NA	1	1		08/15/16 20:37
11M13641	L16080201-01 50ug/L JDS DOC 8260-A9	NA	1	1	STD77604	08/15/16 21:06
11M13642	L16080201-02 50ug/L JDS DOC 8260-A9	NA	1	1	STD77604	08/15/16 21:34
11M13643	L16080201-03 50ug/L JDS DOC 8260-A9	NA	1	1	STD77604	08/15/16 22:03
11M13644	L16080201-04 50ug/L JDS DOC 8260-A9	NA	1	1	STD77604	08/15/16 22:32
11M13645	RINSE	NA	1	1		08/15/16 23:01
11M13646	RINSE	NA	1	1		08/15/16 23:30
11M13647	L16080563-01 2.5ug/L MDL 8260-A9	NA	1	1	STD77604	08/15/16 23:58
11M13648	RINSE	NA	1	1		08/16/16 00:27
11M13649	RINSE	NA	1	1		08/16/16 00:56
11M13650	RINSE	NA	1	1		08/16/16 01:25

Approved: August 26, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 101216
Analyst1: ADC Analyst2: NA
Method: 8260B/C SOP: MSV01/-C Rev: 24/1
Method: 5035/5030B/5030C SOP: PAT01 Rev: 19

Maintenance Log ID:

Internal Standard: STD78176 Surrogate Standard: STD78175
CCV: STD78143 LCS: STD78078 MS/MSD: STD78078

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG586311

Comments: Alt Src failure, RR and do not report any samples.

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M976610	WG587311-01 BFB 50ng	NA	7	1	STD77992	10/12/16 11:53
9M976611	RINSE	NA	1	1	STD78143	10/12/16 12:17
9M976612	WG587311-02 0.5ug/L STD 8260	NA	7	1	STD78143	10/12/16 12:47
9M976613	WG587311-03 1.0ug/L STD 8260	NA	7	1	STD78143	10/12/16 13:17
9M976614	WG587311-04 2.0ug/L STD 8260	NA	7	1	STD78143	10/12/16 13:47
9M976615	WG587311-05 5.0ug/L STD 8260	NA	7	1	STD78143	10/12/16 14:18
9M976616	WG587311-06 20ug/L STD 8260	NA	7	1	STD78143	10/12/16 14:48
9M976617	WG587311-07 50ug/L STD 8260	NA	7	1	STD78143	10/12/16 15:18
9M976618	WG587311-08 100ug/L STD 8260	NA	7	1	STD78143	10/12/16 15:49
9M976619	WG587311-09 200ug/L STD 8260	NA	7	1	STD78143	10/12/16 16:19
9M976620	WG587311-10 300ug/L STD 8260	NA	7	1	STD78143	10/12/16 16:49
9M976621	RINSE	NA	7	1	STD78143	10/12/16 17:19
9M976622	WG587311-11 50ug/L ALT 8260	NA	7	1	STD78277	10/12/16 17:50
9M976623	RINSE	NA	7	1		10/12/16 18:20
9M976624	WG587398-01 BLK 8260	NA	7	1		10/12/16 18:50
9M976625	WG587398-02 20ug/kg LCS 8260	NA	7	1	STD78277	10/12/16 19:21
9M976626	WG587393-01 L16100319-03 A 826-SPE 4.	NA	7	1		10/12/16 19:51
9M976627	RINSE	NA	7	1		10/12/16 20:22
9M976628	L16090634-06 A 826-REF-BLK	NA	7	1		10/12/16 20:52
9M976629	L16090634-07 A 826-REF-BLK	NA	7	1		10/12/16 21:22
9M976630	L16090634-08 A 826-REF-BLK	NA	7	1		10/12/16 21:52
9M976631	L16090634-09 A 826-REF-BLK	NA	7	1		10/12/16 22:22
9M976632	WG587393-02 MS 8260 4.68g	NA	7	1	STD78277	10/12/16 22:53
9M976633	WG587393-03 MSD 8260 5.21g	NA	7	1	STD78277	10/12/16 23:23
9M976634	RINSE	NA	7	1		10/12/16 23:53
9M976635	SCREEN 100X 0580-02	NA	7	1		10/13/16 00:24
9M976636	SCREEN 100X 0580-03	NA	7	1		10/13/16 00:54
9M976637	SCREEN 100X 0580-04	NA	7	1		10/13/16 01:24
9M976638	SCREEN 100X 0580-05	NA	7	1		10/13/16 01:54
9M976639	SCREEN 100X 0597-01	NA	7	1		10/13/16 02:25
9M976640	RINSE	NA	7	1		10/13/16 02:55

Approved: October 14, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 101316
Analyst1: ADC Analyst2: NA
Method: 8260B/C SOP: MSV01/-C Rev: 24/1
Method: 5035/5030B/5030C SOP: PAT01 Rev: 19

Maintenance Log ID:

Internal Standard: STD78176 Surrogate Standard: STD78175
CCV: STD78143 LCS: STD78277 MS/MSD: STD78277

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG587398

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M976641	WG587450-01 BFB 50ng	NA	7	1	STD77992	10/13/16 11:17
9M976642	WG587450-02 50ug/L STD 8260	NA	7	1	STD78143	10/13/16 11:43
9M976643	WG587450-02 50ug/L STD 8260	NA	7	1	STD78143	10/13/16 12:16
9M976644	WG587311-11 50ug/L ALT 8260	NA	7	1	STD78277	10/13/16 12:47
9M976645	WGXXXXXX-01 100ug/kg A9FOO	NA	7	1		10/13/16 13:17
9M976646	WG587398-01 BLK 8260	NA	7	1		10/13/16 13:46
9M976647	WG587398-02 20ug/kg LCS 8260	NA	7	1	STD78277	10/13/16 14:17
9M976648	L16100319-03 A 826-SPE 4.46g	NA	7	1		10/13/16 14:47
9M976649	RINSE	NA	7	1		10/13/16 15:16
9M976650	L16090634-06 B 826-REF-BLK	NA	7	1		10/13/16 15:47
9M976651	L16090634-07 B 826-REF-BLK	NA	7	1		10/13/16 16:17
9M976652	L16090634-08 B 826-REF-BLK	NA	7	1		10/13/16 16:46
9M976653	L16090634-09 B 826-REF-BLK	NA	7	1		10/13/16 17:16
9M976654	L16090922-06 A 826-REF-BLK	NA	7	1		10/13/16 17:47
9M976655	L16090922-07 A 826-REF-BLK	NA	7	1		10/13/16 18:16
9M976656	L16090922-08 A 826-REF-BLK	NA	7	1		10/13/16 18:46
9M976657	L16090922-09 A 826-REF-BLK	NA	7	1		10/13/16 19:17
9M976658	WG587409-01 L16100300-01 A 826-BETX	NA	7	1		10/13/16 19:47
9M976659	L16100300-02 A 826-BETX	NA	7	1		10/13/16 20:17
9M976660	L16100300-03 A 826-BETX	NA	7	1		10/13/16 20:48
9M976661	L16100300-04 A 826-BETX	NA	7	1		10/13/16 21:18
9M976662	L16100300-05 A 826-BETX	NA	7	1		10/13/16 21:48
9M976663	L16100300-06 A 826-BETX	NA	7	1		10/13/16 22:18
9M976664	WG587409-02 A MS 826-BETX	NA	7	1	STD78277	10/13/16 22:49
9M976665	WG587409-03 A MSD 826-BETX	NA	7	1	STD78277	10/13/16 23:19
9M976666	RINSE	NA	7	1		10/13/16 23:49
9M976667	388-01 100UL	NA	7	1		10/14/16 00:19
9M976668	356-01 100UL	NA	7	1		10/14/16 00:50
9M976669	606-01 100UL	NA	7	1		10/14/16 01:20
9M976670	606-02 100UL	NA	7	1		10/14/16 01:50
9M976671	RINSE	NA	7	1		10/14/16 02:20
9M976672	RINSE	NA	7	1		10/14/16 02:50

Approved: October 26, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 101316
Analyst1: FJB Analyst2: JDS
Method: 8260B SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID: 53932

Internal Standard: STD78415 Surrogate Standard: STD78416
CCV: STD78143 LCS: STD78362 MS/MSD: STD78362

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG587480

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M14497	WG587480-01 BFB 50ng 8260	NA	1	1	STD78474	10/13/16 11:16
11M14498	WG587480-02 50ug/L CCV STD 8260	NA	1	1	STD78477	10/13/16 11:41
11M14499	WG587480-01 BFB 50ng 8260	NA	1	1	STD78474	10/13/16 12:50
11M14500	RINSE	NA	1	1		10/13/16 13:14
11M14501	WG587480-02 0.3ug/L STD 8260	NA	1	1	STD78477	10/13/16 13:42
11M14502	WG587480-03 0.4ug/L STD 8260	NA	1	1	STD78477	10/13/16 14:11
11M14503	WG587480-04 1ug/L STD 8260	NA	1	1	STD78477	10/13/16 14:40
11M14504	WG587480-05 2ug/L STD 8260	NA	1	1	STD78477	10/13/16 15:09
11M14505	WG587480-06 5ug/L STD 8260	NA	1	1	STD78477	10/13/16 15:38
11M14506	WG587480-07 20ug/L STD 8260	NA	1	1	STD78477	10/13/16 16:07
11M14507	WG587480-08 50ug/L STD 8260	NA	1	1	STD78477	10/13/16 16:36
11M14508	WG587480-09 100ug/L STD 8260	NA	1	1	STD78477	10/13/16 17:05
11M14509	WG587480-10 200ug/L STD 8260	NA	1	1	STD78477	10/13/16 17:33
11M14510	WG587480-11 300ug/L STD 8260	NA	1	1	STD78477	10/13/16 18:03
11M14511	RINSE	NA	1	1		10/13/16 18:32
11M14512	WG587480-12 50ug/L ICV 8260	NA	1	1	STD78491	10/13/16 19:00
11M14513	RINSE	NA	1	1		10/13/16 19:29
11M14514	WG587598-01 BLANK 8260	NA	1	1		10/13/16 19:58
11M14515	WG587598-02 20ug/L LCS 8260	NA	1	1	STD78491	10/13/16 20:27
11M14516	WG587598-03 20ug/L LCS2 8260	NA	1	1	STD78491	10/13/16 20:57
11M14517	L16100269-01 25X B 826-SPE	6	1	25		10/13/16 21:26
11M14518	L16100512-02 TB A 826-LOW	<2	1	1		10/13/16 21:55
11M14519	L16100194-01 10X B 826-LOW	6	1	10		10/13/16 22:24
11M14520	L16100194-03 10X B 826-LOW	6	1	10		10/13/16 22:54
11M14521	L16100194-06 5X B 826-LOW	<2	1	5		10/13/16 23:23
11M14522	L16100512-01 A 826-LOW	<2	1	1		10/13/16 23:52
11M14523	RINSE	NA	2	1		10/14/16 00:21
11M14524	WG587598-04 624 BLANK	NA	2	1		10/14/16 00:49
11M14525	L16100687-01 A 624-SPE	<2	2	1		10/14/16 01:18
11M14526	L16100565-01 10X B 624-SPE1	<2	2	10		10/14/16 01:47
11M14527	RINSE	NA	1	1		10/14/16 02:16
11M14528	RINSE	NA	1	1		10/14/16 02:45
11M14529	RINSE	NA	1	1		10/14/16 03:13

Approved: October 17, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 112216
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 24
Method: 5035/5030B/ 5030C SOP: PAT01 Rev: 19

Maintenance Log ID:

Internal Standard: STD79032 Surrogate Standard: STD79031
CCV: STD79021 LCS: STD79035 MS/MSD: STD79035

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG592568, WG592569

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
9M977297	WG592565-01 BFB 50ng 8260	NA	7	1	STD78474	11/22/16 09:42
9M977298	WG592565-02 50ug/Kg CCV 8260	NA	7	1	STD79021	11/22/16 10:07
9M977299	WG592565-02 50ug/Kg CCV 8260	NA	7	1	STD79021	11/22/16 10:39
9M977300	RINSE	NA	7	1		11/22/16 11:11
9M977301	WG592568-01 BLANK 8260	NA	7	1		11/22/16 11:41
9M977302	WG592568-02 20ug/Kg LCS 8260	NA	7	1	STD79035	11/22/16 12:11
9M977303	WG592554-01 L16110787-01 REF 826-SPE	NA	7	1		11/22/16 12:41
9M977304	WG592554-02 MS 826-SPE 5.24g	NA	7	1	STD79035	11/22/16 13:11
9M977305	WG592554-03 MSD 826-SPE 5.19g	NA	7	1	STD79035	11/22/16 13:41
9M977306	RINSE	NA	7	1		11/22/16 14:11
9M977307	WG592569-01 BLK EXT 100X 8260	NA	7	50		11/22/16 14:41
9M977308	WG592569-02 LCS EXT 100X 8260	NA	7	50		11/22/16 15:11
9M977309	L16110803-01 100X 8260	NA	7	50		11/22/16 15:41
9M977310	L16111077-01 100X 8260	NA	7	50		11/22/16 16:12
9M977311	L16110835-01 500X 8260	NA	11	50		11/22/16 16:42
9M977312	WG592536-01 L16111080-01 REF 500X 82	NA	11	50		11/22/16 17:13
9M977313	L16111080-02 500X 8260	NA	11	50		11/22/16 17:43
9M977314	L16111072-04 500X 8260	NA	11	50		11/22/16 18:12
9M977315	L16111050-05 500X 8260	NA	17	50		11/22/16 18:42
9M977316	L16111050-03 500X 8260	NA	17	50		11/22/16 19:13
9M977317	L16111050-04 500X 8260	NA	17	50		11/22/16 19:43
9M977318	L16111050-02 500X 8260	NA	17	50		11/22/16 20:13
9M977319	WG592536-02 DUP 500X 8260	NA	11	50		11/22/16 20:43
9M977320	RINSE	NA	7	1		11/22/16 21:14
9M977321	RINSE	NA	7	1		11/22/16 21:46
9M977322	RINSE	NA	7	1		11/22/16 22:16
9M977323	RINSE	NA	7	1		11/22/16 22:46
9M977324	RINSE	NA	7	1		11/22/16 23:17
9M977325	RINSE	NA	7	1		11/22/16 23:46
9M977326	RINSE	NA	7	1		11/23/16 10:01
9M977327	RINSE	NA	7	1		11/23/16 10:31
9M977328	RINSE	NA	7	1		11/23/16 11:33
9M977329	RINSE	NA	7	1		11/23/16 12:03
9M977330	RINSE	NA	7	1		11/23/16 12:33

Approved: November 30, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS9 Dataset: 112216
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 24
Method: 5035/5030B/ 5030C SOP: PAT01 Rev: 19

Maintenance Log ID:

Internal Standard: STD79032 Surrogate Standard: STD79031
CCV: STD79021 LCS: STD79035 MS/MSD: STD79035

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG592568, WG592569

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 9M977298				
	DNR.			
16	X	50000	Over Calibration Range	
File ID: 9M977311				
	L16110835-01			
36	X	500	Analyzed too dilute	
File ID: 9M977312				
	L16111080-01			
18	X	5000	Over Calibration Range	
File ID: 9M977313				
	L16111080-02			
19	X	50000	Over Calibration Range	MECL, TOL
File ID: 9M977314				
	L16111072-04			
22				
File ID: 9M977317				
	L16111050-04 OBV SMI			
23				
File ID: 9M977318				
	L16111050-02 OBV SMI			

Approved: November 30, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 112216
Analyst1: JDS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 24
Method: 624 SOP: MSV10 Rev: 15
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53967

Internal Standard: STD78963 Surrogate Standard: STD78962
CCV: STD78993 LCS: STD79133 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG592631

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M15347	WG592630-01 BFB 50ng 8260	NA	1	1	STD78474	11/22/16 13:36
11M15348	WG592630-02 50ug/L CCV 8260	NA	1	1	STD78993	11/22/16 14:01
11M15349	WG592XXX-01 100ug/L CCV A9	NA	1	1	STDXXXXX	11/22/16 14:42
11M15350	WG592631-01 BLANK 8260	NA	1	1		11/22/16 15:10
11M15351	WG592631-02 20ug/L LCS 8260	NA	1	1	STD79133	11/22/16 15:39
11M15352	WG592631-03 20ug/L LCS2 8260	NA	1	1	STD79133	11/22/16 16:08
11M15353	L16110934-06 A TB 826-SPE	<2	1	1		11/22/16 16:37
11M15354	L16111004-08 A TB 826-LOW	<2	1	1		11/22/16 17:06
11M15355	L16110934-03 A 826-SPE	<2	1	1		11/22/16 17:34
11M15356	L16110934-05 A 826-SPE	<2	1	1		11/22/16 18:03
11M15357	L16110934-01 A 50X 826-SPE	<2	1	50		11/22/16 18:31
11M15358	L16110934-02 A 50X 826-SPE	<2	1	50		11/22/16 19:00
11M15359	L16110934-04 A 2.5X 826-SPE	<2	1	2.5		11/22/16 19:28
11M15360	L16110785-02 10X AF 826-TC	NA	17	10		11/22/16 19:57
11M15361	L16110406-01 500X AF 826-TC	NA	17	500		11/22/16 20:25
11M15362	L16110838-01 10X AF 826-TC	NA	17	10		11/22/16 20:54
11M15363	L16111002-01 10X AF 826-TC	NA	17	10		11/22/16 21:22
11M15364	L16110941-01 10X AF 826-TC	NA	17	10		11/22/16 21:51
11M15365	L16110941-02 10X AF 826-TC	NA	17	10		11/22/16 22:19
11M15366	L16111027-01 10X AF 826-TC	NA	17	10		11/22/16 22:48
11M15367	L16111050-06 10X AF 826-TC	NA	17	10		11/22/16 23:17
11M15368	RINSE	NA	2	1		11/22/16 23:46
11M15369	WG592631-04 BLANK2 624	NA	2	1		11/23/16 00:14
11M15370	L16111046-01 B D1 200X 624-SPE1	7	2	200		11/23/16 00:43
11M15371	L16111045-01 B A1 5X AF 624-SPE	<2	2	5		11/23/16 01:11
11M15372	L16110945-01 B A1 AF 624-SPE	<2	2	1		11/23/16 01:40
11M15373	CCV	NA	1	1		11/23/16 02:09
11M15374	RINSE	NA	1	1		11/23/16 02:38
11M15375	RINSE	NA	1	1		11/23/16 03:06
11M15376	AF RINSE	NA	1	1		11/23/16 03:35
11M15377	WG591458-01 FBLK 10X AF 826-TC	NA	17	10		11/23/16 04:03
11M15378	WG591822-01 FBLK 10X AF 826-TC	NA	17	10		11/23/16 04:32
11M15379	WG592420-01 FBLK 10X AF 826-TC	NA	17	10		11/23/16 05:00

Approved: November 29, 2016

Sarah Vandenberg

Microbac

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 112216
Analyst1: JDS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 24
Method: 624 SOP: MSV10 Rev: 15
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53967

Internal Standard: STD78963 Surrogate Standard: STD78962
CCV: STD78993 LCS: STD79133 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG592631

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4			Blank Failure	
File ID: 11M15350				
	WG592631-01 blank took hit of bromoform and chlorofrom			
7	X	1	Carry-over contamination	
File ID: 11M15353				
	L16110934-06			
8	X	1	Carry-over contamination	
File ID: 11M15354				
	L16111004-08			
14	X	10	Carry-over contamination	
File ID: 11M15360				
	L16110785-02			
15	X	50	Analyzed too dilute	
File ID: 11M15361				
	L16110406-01			
20	X	1000	Over Calibration Range	2-but.
File ID: 11M15366				
	L16111027-01			
24	X	5000	Over Calibration Range	2-but.
File ID: 11M15370				
	L16111046-01			

Approved: November 29, 2016
Sarah Vandenberg

Microbac

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Analyst(s): BNB
Date: 11-21-16
Filter Lot #: 969976007

Agitator Speed 30 ± 2 rpm ☑

Balance ID: BAL020
pH Probe ID: T3
Temp probe ID: ☑1025 ☐ 1023

Analyst / Date		Analyst / Date	
BNB 11-21-16		BNB 11-22-16	
Time On	Temp On °C	Time Off	Temp Off °C
15:23	22.4	8:17	22.8

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A												
B												
C												
D												
E												
F												
G												
H												
I												
J												
K												
L	11-1002-01	✓	10	10	1311	F-197	S	100		✓	25.00	500
M	11-0941-01	✓								✓	25.00	500
N	11-0941-02	✓								✓	25.00	500
O	11-1027-01	✓								✓	25.00	500
P												
Q												
R												
S												
NA	FBLK-1	NA	NA	NA	1311	F-197	NA	NA	NA	NA	40	40
NA	11-1050-02					FIL	O	<0.5				
NA	11-1050-03											
NA	11-1050-04											
NA	11-1050-05											
NA	11-1050-06						W					

BNB 11-22-16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: Due to the fuel smell, 11-1050 samples were not dried and percent solids was not performed. They did pass through the TCLP filter, so are considered <0.5% solid.

Peer Review By: [signature]

Analyst(s): BNB
Date: 11-21-16
Filter Lot #: 916976007

Agitator Speed 30 ± 2 rpm ☑

Balance ID: BAL020
pH Probe ID: T3
Temp probe ID: ☑1025 ☐ 1023

Analyst / Date		Analyst / Date	
BNB 11-21-16		BNB 11-22-16	
Time On	Temp On °C	Time Off	Temp Off °C
15:23	22.4	8:17	22.8

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A												
B												
C												
D												
E												
F												
G												
H												
I												
J												
K												
L	11-1002-01	✓	10	10	1311	F-197	S	100		✓	25.00	500
M	11-0941-01	✓								✓	25.00	500
N	11-0941-02	✓								✓	25.00	500
O	11-1027-01	✓								✓	25.00	500
P												
Q												
R												
S												
NA	FBLK-1	NA	NA	NA	1311	F-197	NA	NA	NA	NA	40	40
NA	11-1050-02					FIL	O	<0.5				
NA	11-1050-03											
NA	11-1050-04											
NA	11-1050-05											
NA	11-1050-06						W					

BNB 11-22-16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: Due to the fuel smell, 11-1050 samples were not dried and percent solids was not performed. They did pass through the TCLP filter, so are considered <0.5% solid.

Peer Review By: [signature]

Analyst(s): BNB
Date: 11-16-16
Filter Lot #: 9609D16D7

Agitator Speed 30 ± 2 rpm ☑

Balance ID: BAL020
pH Probe ID: T3
Temp probe ID: ☑ 1025 ☐ 1023

Analyst / Date		Analyst / Date	
BNB 11-16-16		BPD 11-17-16	
Time On	Temp On °C	Time Off	Temp Off °C
14:00	21.8	801	22.7

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A												
B												
C												
D												
E												
F												
G												
H	11-0785-01	✓	10	10	1311	F1-196	S	100		✓	25.00	500
I	11-0785-02	✓	⊥	⊥	⊥	⊥	⊥	⊥		✓	25.00	500
J	11-0804-02	✓	10	10	1311	⊥	S	100		✓	25.00	500
K	11-0406-01	✓	10	10	⊥	⊥	W	>0.5		✓	25.00	500
L												
M												
N												
O												
P												
Q												
R												
S												
NA	FBIK 1	NA	NA	NA	1311	F1-196	NA	NA	NA	NA	40	40
NA	11-0835-02	⊥	⊥	⊥	⊥	FIL ⊥	W ⊥	⊥	⊥	⊥	⊥	⊥
NA	11-0838-01											

BNB 11-17-16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: Due to the sample not being able to pass through the TCLP filter, 11-0406-01 is to be oiled and filtered even though it's aqueous. SX 0835-02 and 0838-01 had strong fuel odor.

Peer Review By: [signature]

Analyst(s): BNB
Date: 11-14-16
Filter Lot #: 96097607

Agitator Speed 30 ± 2 rpm ☑

Balance ID: BAL020
pH Probe ID: T3
Temp probe ID: ☑1025 ☐ 1023

Analyst / Date		Analyst / Date	
BNB 11-14-16		BNB 11-15-16	
Time On	Temp On °C	Time Off	Temp Off °C
14:27	21.9	8:15	22.3

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A									BNB	11-15-16		
B	11-01664-02	✓	10	10	1311	F1-196	5	100		✓	25.00	500
C	11-01001-01	✓	10	10						✓	25.00	500
D	11-0570-01	✓	10	10						✓	25.01	500
E	11-0570-02	✓	10	10						✓	25.00	500
F	11-0570-03	✓	10	10						✓	25.01	500
G	11-0702-02	✓	10	10	1311		5	100		✓	25.00	500
H												
I												
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
NA	FBK-1	NA	NA	NA	1311	F1-196	NA	NA	NA	NA	40	40

BNB 11-15-16

BNB 11-15-16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: NA

Peer Review By: [signature]

Chain of Custody Record

Microbac Laboratories, Inc.
158 Starlie Dr.
Marietta, OH 45750
(740) 373-4835

Regulatory Program: ☐DW ☐NPDES ☑RCRA ☐Other:

Client Contact	Project Manager: Frank Zingales	Lab Contact: Michelle Taylor	COC No: 111516-HW
Ohio EPA / NEDO / DERR-Hazardous Waste Program	Phone: 330-963-1108		Page 1 of 1
2110 E. Aurora Rd.	Turn Around Time Requirements:		
Twinsburg, OH 44087	Standard - 14 days		
Phone: 330-963-1200	Report Options:		
Fax: 330-487-0769	Email: frank.zingales@epa.ohio.gov		
Project Name: Crest Rubber-Alliance	EDD: frank.zingales@epa.ohio.gov		
Project Number: MNE-161115-HW			
Samplers: Ron Fodo & Frank Zingales			

Microbac OVD
Received: 11/18/2016 13:48
By: BRENDA GREGORY
221000093790
Brenda Gregory

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Preservative	SW-846 Test Methods:	Ignitability - 1010A/1020B	TCLP VOCs - 1311/8260	Sample Specific Notes:
CR-01	11/15/2016	1100	G	L	2	N	1		X		
CR-02	11/15/2016	1125	G	L	2	N	1		X	X	
CR-03	11/15/2016	1130	G	L	2	N	1		X	X	
CR-04	11/15/2016	1135	G	L	2	N	1		X	X	
CR-05	11/15/2016	1245	G	L	2	N	1				
Top Layer									X	X	
Bottom Layer									X	X	
CR-06	11/15/2016	1300	G	L	2	N	1		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
☐Non-Hazard ☑Flammable ☐Skin Irritant ☐Poison B ☑Unknown

Sample Disposal
☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: Custody seal on cooler. Ice in cooler. QC level II report per contract.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Frank Zingales	OHIO EPA	11-17-16 14:10	Randy Allemacher	Ohio EPA	11-17-16 14:10
Relinquished by: Randy Allemacher	Company: Ohio EPA	Date/Time: 11-18-16 1113	Received by: Daniel Eckstein	Company: MICROBAC	Date/Time: 11-18-16 1113
Relinquished by: Daniel Eckstein	Company: MICROBAC	Date/Time: 11-18-16/1204	Received in Laboratory by:	Company:	Date/Time:

MICROBAC

Cooler ID 3790

COOLER TEMP >6° C LOG

SAMPLE ID	Bottle 1 °C	Bottle 2 °C	Bottle 3 °C	Bottle 4 °C	Bottle 5 °C	Bottle 6 °C

BLG 11/18/16

pH Lot # N/A

pH Exceptions

SAMPLE ID	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6

BLG 11/18/16

PRESERVATIVE EXCEPTIONS

✓ NONE

__ AS NOTED

BLG 11/18/16

Document Control # 1957
Last 10-07-2016

Issued to: Document Master File

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16111050
Account: 2755
Project: 2755.044
Samples: 7
Due Date: 02-DEC-2016

Samplenum	Container ID	Products
L16111050-01	832507	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:49	CPD	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	STORE	W1	A2	21-NOV-2016 16:18	BRG	BRG	

Samplenum	Container ID	Products
L16111050-02	832508	826-TC TC-ZHE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	21-NOV-2016 15:22	BNB	BRG	
3	STORE	TCL	W1	22-NOV-2016 11:43	BRG	BNB	

Samplenum	Container ID	Products
L16111050-02	832509	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:48	CPD	BRG	

Samplenum	Container ID	Products
L16111050-03	832510	826-TC TC-ZHE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	21-NOV-2016 15:22	BNB	BRG	
3	STORE	TCL	W1	22-NOV-2016 11:43	BRG	BNB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16111050
Account: 2755
Project: 2755.044
Samples: 7
Due Date: 02-DEC-2016

Samplenum	Container ID	Products
L16111050-03	832511	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:48	CPD	BRG	

Samplenum	Container ID	Products
L16111050-04	832512	826-TC TC-ZHE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	21-NOV-2016 15:22	BNB	BRG	
3	STORE	TCL	W1	22-NOV-2016 11:43	BRG	BNB	

Samplenum	Container ID	Products
L16111050-04	832513	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:49	CPD	BRG	

Samplenum	Container ID	Products
L16111050-05	832514	826-TC TC-ZHE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	21-NOV-2016 15:22	BNB	BRG	
3	STORE	TCL	W1	22-NOV-2016 11:43	BRG	BNB	

Samplenum	Container ID	Products
L16111050-05	832515	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:49	CPD	BRG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16111050
Account: 2755
Project: 2755.044
Samples: 7
Due Date: 02-DEC-2016

Samplenum	Container ID	Products
L16111050-06	832516	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:49	CPD	BRG	

Samplenum	Container ID	Products
L16111050-06	832517	826-TC TC-ZHE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	21-NOV-2016 15:22	BNB	BRG	
3	STORE	TCL	W1	22-NOV-2016 11:43	BRG	BNB	

Samplenum	Container ID	Products
L16111050-07	832518	FLASH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	PREP	W1	TCL	01-DEC-2016 08:48	CPD	BRG	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	21-NOV-2016 13:25	BRG		
2	STORE	W1	A2	21-NOV-2016 16:18	BRG	BRG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

ORIGINAL

FILED
COURT OF COMMON PLEAS
APR 14 2015
LINDA K. FANKHAUSER, CLERK
PORTAGE COUNTY, OHIO

IN THE COURT OF COMMON PLEAS
PORTAGE COUNTY, OHIO

THE HUNTINGTON NATIONAL BANK, Plaintiff, vs. **C.F. CAPITAL INVESTMENT CORP., dba C.F. CAPITAL INVESTMENTS, LTD., et al.,** Defendants.	CASE NO. 2015CV00291 JUDGE JUDGE BECKY L. DOHERTY

JUDGMENT ENTRY

This day this cause came on to be heard on the Complaint of the Plaintiff, The Huntington National Bank. Michael A. Thompson, an attorney at law of this Court, by virtue of the Warrant of Attorney annexed to the notes and guarantees attached to the Complaint in this case, entered an appearance on behalf of the Defendants, C.F. Capital Investment Corp., dba C.F. Capital Investment, Ltd., Crest Rubber Company, David H. Clark and Shirley Clark, and confessed judgment on said notes and guarantees in favor of the Plaintiff and against said Defendants as follows:

A. Against Defendants C.F. Capital Investment Corp., dba C.F. Capital Investment, Ltd., Crest Rubber Company, David H. Clark and Shirley

Clark in the amount of FOUR HUNDRED SIXTY-THREE THOUSAND THREE HUNDRED SIXTY-NINE DOLLARS AND NINETY-ONE CENTS ($463,369.91) plus interest on the principal amount at the default rate of ten and seven-tenths percent (10.7%) from February 25, 2015;

B. Against Defendants Crest Rubber Company, David H. Clark and Shirley Clark in the amount of NINETY-ONE THOUSAND FOUR HUNDRED FOURTEEN DOLLARS AND SEVENTY-SEVEN CENTS ($91,414.77) plus interest on the principal amount at the default rate of eight and twenty-five one-hundredths percent (8.25%) from February 25, 2015;

being the amount appearing due for principal and interest on the notes and guarantees referenced in Plaintiff's Complaint, and also for costs of suit, and release and waive all exceptions, errors, and rights of appeal in the premises.

IT IS, THEREFORE, ORDERED, ADJUDGED, and DECREED by this Court that the Plaintiff, The Huntington National Bank, is entitled to judgment against the Defendants as follows:

A. Against Defendants C.F. Capital Investment Corp., dba C.F. Capital Investment, Ltd., Crest Rubber Company, David H. Clark and Shirley Clark in the amount of FOUR HUNDRED SIXTY-THREE THOUSAND THREE HUNDRED SIXTY-NINE DOLLARS AND NINETY-ONE CENTS ($463,369.91) plus interest on the principal amount at the default rate of ten and seven-tenths percent (10.7%) from February 25, 2015;

B. Against Defendants Crest Rubber Company, David H. Clark and Shirley Clark in the amount of NINETY-ONE THOUSAND FOUR HUNDRED

FOURTEEN DOLLARS AND SEVENTY-SEVEN CENTS ($91,414.77) plus interest on the principal amount at the default rate of eight and twenty-five one-hundredths percent (8.25%) from February 25, 2015; being the amount appearing due for principal and interest on the notes and guarantees referenced in Plaintiff's Complaint, and also for costs of suit, and release and waive all exceptions, errors, and rights of appeal in the premises.

Dated: 4-14-15

JUDGE

APPROVED BY:

Gregory D. Swope (0065123), of
KRUGLIAK, WILKINS, GRIFFITHS
& DOUGHERTY CO., L.P.A.
4775 Munson Street, N.W./P.O. Box 36963
Canton, Ohio 44735-6963
Phone: (330) 497-0700/Fax: (330) 497-4020
gswope@kwgd.com
ATTORNEYS FOR PLAINTIFF

Michael A. Thompson (0016874)
Crescent Pointe Building
4774 Munson Street NW, Suite 400
Canton, Ohio 44718
Phone: (330) 499-5297; Fax: (330) 433-1313
thompsonlaw@sssnet.com
ATTORNEY FOR DEFENDANTS

ORIGINAL

FILED
COURT OF COMMON PLEAS
NOV 18 2015
JILL FANKHAUSER, Clerk
PORTAGE COUNTY, OH

IN THE COURT OF COMMON PLEAS
FOR PORTAGE COUNTY, OHIO
CIVIL DIVISION

THE HUNTINGTON NATIONAL BANK Plaintiff vs. **C.F. CAPITAL INVESTMENT, CORP. dba C.F. CAPITAL INVESTMENT, LTD., et al.** Defendants.	CASE NO.: 2015 CV 00291 JUDGE BECKY L. DOHERTY

RECEIVER'S MOTION TO ABANDON CERTAIN REAL PROPERTY BURDENSOME TO THE ESTATE

The Receiver, John Hillyer of Hillyer Group, LLC (Receiver), by and through the undersigned counsel, moves for an Order authorizing the Receiver to abandon certain parcels of real property from the estate. A receiver's report explaining the nature of the burden that the parcels place upon the estate is attached hereto as **Exhibit A**.

Respectfully submitted,

NIEKAMP, WEISENSELL, MUTERSBAUGH & MASTRANTONIO, LLP

Christopher J. Niekamp (0051221)
Wade T. Doerr (0083430)
The Nantucket Building, Third Floor
23 South Main Street
Akron, Ohio 44308-1822
Telephone: (330) 434-1000

Facsimile: (330) 434-1001
E-Mails: cjn@nwm-law.com; wade@nwm-law.com
Counsel for The Receiver

MEMORANDUM IN SUPPORT

1. On July 27, 2015, this Court entered the Order appointing John T. Hillyer of Hillyer Group LLC as the Receiver (the "Receiver Order"), in which Order the Court granted full authority to the Receiver over Defendant corporations, C.F. Capital Investment, Corp. (C.F.) and Crest Rubber Co. (Crest), together with all of their real and personal property assets (collectively, the "Collateral" or the "Receivership Estate"), pursuant to R.C. 2735.01 *et seq*, pursuant to the interests Plaintiff holds in the assets by certain mortgages and judgments against Defendants.

2. Pursuant to R.C. 2735.04, the Receiver Order, at Par. 6(a) grants power to the Receiver to manage, control, operate, maintain, and protect the business operations of Defendants, and at Par. 6(k), "to take any and all actions, not specifically enumerated herein, which are necessary to properly and adequately manage, control, operate, maintain, and protect Defendants during the pendency of this action." The receiver is expected to exercise his own independent business judgment in carrying out his duties. Receiver Order at Par. 10.

3. The Receiver filed a report docketed on October 19, 2015, in which the Receiver lists the various properties of the Receivership Estate.

4. On that schedule, the real properties described as "Vacant Building," located in Stark County Ohio, PPN 109213, 110258, 110259, 113036, 113641, and 113642 (collectively, the "Alliance Building"), was valued at $0.00 to the Receivership Estate due to its state of dilapidation and the significant tax and utility costs.

5. The property known as the "Oak Building" located in Ravenna Ohio, PPN 313662400

039 000, 313662400 027 000, 313662400 028 000, 313662400 029 000, 313662400 030 000, 313662400 031 000, 313662400 032 000, 313662400 033 000, 313662400 033 001, 313662400 034 000, 313662400 036 000, 313662400 037 000, and 313662400 038 000 (collectively, the "Oak Building"), has value, but is not in a condition to be maintained or sold by the receiver without substantial costs that are not supportable from the liquid assets of the Receivership Estate. See attached supplemental report of the Receiver.

6. As stated in the attached receiver's report, the Oak Building is projected to cost the Receivership estate at least $13,000.00 in management costs over the next 12 months in utilities and taxes, but it is not in adequate condition to market and sell. Since there would be a net loss to the Receivership Estate if the Receiver were required to carry the Oak Building, the Receiver requests permission to abandon the property as burdensome to the Estate.

7. Similarly, the Alliance property will cost the Receivership Estate at least $5,636 in taxes, sapping management funds, without being suitable to liquidate for any gain, and the Receiver requests permission to abandon the property as burdensome to the Estate.

WHEREFORE the Receiver requests an order granting permission to abandon the Oak Building and the Alliance Property from the Receivership Estate.

A proposed form of order is attached.

Respectfully submitted,

NIEKAMP, WEISENSELL, MUTERSBAUGH & MASTRANTONIO, LLP

Christopher J. Niekamp (0051221)
Wade T. Doerr (0083430)
The Nantucket Building, Third Floor
23 South Main Street
Akron, Ohio 44308-1822

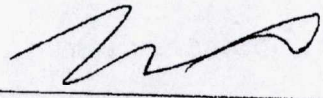
Telephone: (330) 434-1000
Facsimile: (330) 434-1001
E-Mails: cjn@nwm-law.com; wade@nwm-law.com
Counsel for The Receiver

CERTIFICATE OF SERVICE

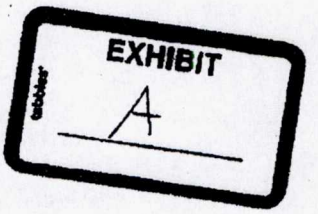
The undersigned certifies that on November 18, 2015 a true copy of the foregoing Motion of the Receiver to Abandon Certain Real Property was sent via regular U.S. mail to the following:

Thomas R. Buchanan, Esquire
206 S. Meridian St.
Suite B
Ravenna OH 44266

Gregory D. Swope, Esquire
4775 Munson St. NW
PO Box 36963
Canton, Ohio 44735



Wade T. Doerr (0083430)



IN THE COURT OF COMMON PLEAS
FOR PORTAGE COUNTY, OHIO
CIVIL DIVISION

THE HUNTINGTON NATIONAL BANK Plaintiff vs. **C.F. CAPITAL INVESTMENT, CORP. dba C.F. CAPITAL INVESTMENT, LTD., et al.** Defendants.	CASE NO.: 2015 CV 00291 JUDGE BECKY L. DOHERTY

RECEIVER'S REPORT IN SUPPORT OF THE MOTION TO ABANDON CERTAIN REAL PROPERTY BURDENSOME TO THE ESTATE

Upon review of the assets and liabilities of the Receivership Estate, and as set forth in the Receiver's First Report docketed on October 19, 2015, the Receiver seeks to abandon the following real property assets as burdensome to the operation of the Receivership Estate, namely:

1. Oak Building, Ravenna OH. PPN 313662400 039 000, 313662400 027 000, 313662400 028 000, 313662400 029 000, 313662400 030 000, 313662400 031 000, 313662400 032 000, 313662400 033 000, 313662400 033 001, 313662400 034 000, 313662400 036 000, 313662400 037 000, and 313662400 038 000 (collectively, the "Oak Building"). The projected time to market and sell this building combined with cost to maintain this building far outweigh any benefit that the Receivership Estate would realize. Annual costs are projected to be in excess of $13,000.00 in taxes and utilities.

2. Union Ave Building, Alliance OH. PPN 109213, 110258, 110259, 113036, 113641, and 113642 (the "Alliance Building"). The set of three buildings are extremely poor condition and uninhabitable. The annual tax liability of $5,636.00 is not a justifiable expense as the property will not likely result in any net proceeds.

Overall, we are focusing on selling the non-operating assets of the Receivership, however, the above properties are estimated to take a particularly long time and substantial amount of improvement to sell while the maintenance costs place a burden on the remaining assets of the Receivership. There are other real assets in the Receivership Estate that are more ready to be sold, and should be sufficient to satisfy the Plaintiff's judgment.

Respectfully submitted:

Hillyer Group, LLC

John T. Hillyer, Receiver

FILED
COURT OF COMMON PLEAS
DEC 21 2015
JILL FANKHAUSER, Clerk
PORTAGE COUNTY, OH

IN THE COURT OF COMMON PLEAS
FOR PORTAGE COUNTY, OHIO
CIVIL DIVISION

THE HUNTINGTON NATIONAL BANK Plaintiff vs. **C.F. CAPITAL INVESTMENT, CORP. dba C.F. CAPITAL INVESTMENT, LTD., et al.** Defendants.	CASE NO.: 2015 CV 00291 JUDGE BECKY L. DOHERTY

JUDGMENT ENTRY AUTHORIZING THE RECEIVER TO ABANDON CERTAIN REAL PROPERTY BURDENSOME TO THE ESTATE

Upon review of the Receiver's Motion to Abandon Certain Real Property Burdensome to the Estate (the "Motion"), and for good cause shown, the Receiver's Motion is hereby GRANTED.

IT IS THEREFORE ORDERED that the real property located in Ravenna, Portage County known as parcel numbers PPN 313662400 039 000, 313662400 027 000, 313662400 028 000, 313662400 029 000, 313662400 030 000, 313662400 031 000, 313662400 032 000, 313662400 033 000, 313662400 033 001, 313662400 034 000, 313662400 036 000, 313662400 037 000, and 313662400 038 000, is hereby abandoned and removed from the Receivership Estate.

IT IS FURTHER ORDERED the real property located in Alliance, Stark County known as parcel numbers PPN 109213, 110258, 110259, 113036, 113641, and 113642, is hereby abandoned and removed from the Receivership Estate.

IT IS FURTHER ORDERED that the Receiver shall have no further rights, duties,

obligations, liability, or reporting requirements with respect to the abandoned parcels of real estate, and that said properties revert to the possession and control of David H. Clark.

IT IS FURTHER ORDERED that there is no just cause for delay.

IT IS SO ORDERED.

JUDGE BECKY L. DOHERTY

Submitted by:

Wade T. Doerr (0083430)
NIEKAMP, WEISENSELL, MUTERSBAUGH & MASTRANTONIO, LLP
The Nantucket Building, Third Floor
23 South Main Street
Akron, Ohio 44308-1822
Counsel for the Receiver

NOTICE: AN ORDER HAS BEEN FILED
IN THE CASE IDENTIFIED BELOW:

Notice is being mailed by regular mail or by facsimile on or before the 3rd day after the filing date of the entry to each attorney of record or each party with no attorney of record. Notice will not be sent to parties in default for failure to appear.
A copy of the order can be found on our website at www.co.portage.oh.us or contact our office to have a copy emailed for faxed.

FILED
COURT OF COMMON PLEAS

December 22, 2015

JILL FANKHAUSER, CLERK
PORTAGE COUNTY, OHIO

Mail to:

File Copy

Case Number: 2015 CV 00291

HUNTINGTON NATL BK VS. CF CAPITAL INVESTMENT CORP et al

Date entry was filed: DECEMBER 21, 2015

Court of Common Pleas, Portage County, Ravenna, Ohio

Certificate of Service Completed and filed by the Clerk

The document described above was mailed by ordinary mail or by facsimile to attys/parties by the clerk on **DECEMBER 22, 2015.**

Jill Fankhauser, Clerk of Courts

Deputy Clerk

cc:
Wade T Doerr
PORTAGE CTY SHERIFF
PORTAGE CTY SHERRIFF
GREGORY D SWOPE
WADE T DOERR
CHRISTOPHER J NIEKAMP
THOMAS ROY BUCHANAN

SCANNED

Ohio State Emergency Response Commission
Ohio EPA Emergency Planning and Community Right-to-Know
P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43216-1049

Facility Identification Form

Please check, as applicable
EHS Reported ☐
HC Reported ☒
No change (from last year's) ☐
Exempt ☐
Negative ☐
First time filer ☐

(Important: Type or print: Read Instructions before completing form.)

For filing Date: 03 / 01 / 98 /

☐ Check if form is identical to form submitted last year

County: Stark

Where to send completed forms:

Ohio EPA
SERC
P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43216-1049

County Local Emergency Planning Committee Information Coordinators

Local Fire Department within the jurisdiction of the facility

1. Parent Company or Public Entity Identification

1.1 Name of Parent Company (30 char max) — 11

1.2 Address (30 char max)

Address (30 char max) — 12

City (25 char max) — State

Zip Code — 1.3-Parent Company: Dun & Bradstreet # — 13

2. Facility Identification

2.1 Operating Division Name (30 char max): Crest Rubber Company — 14

Facility Name (30 char max): Crest Rubber Company Plant #2 — 15

Street Location (30 char max): 633 N. Union Avenue — 16

2.2 Mailing Address (if different from Street Location) (30 char max): P.O. Box 312, Ravenna, OH 44266 — 17

City (25 char max): Alliance — State: OH

Zip Code: 44601 — 2.3-Facility: Dun & Bradstreet # — a. SIC Code: 3069 — b. 24 Hr. Telephone Number (Include area code): (330) 821-3820 — 18

2.4 Emergency Contact (30 char max): Darrell Wiley 330-297-6101 / Carl Thompson — Telephone Number (Include area code): (330) 325-9144 — 19

2.5 Alternate Contact (30 char max): Cindy Moore — Telephone Number (Include area code): (330) 296-4015 — 20

2.6 Fire Department Name (25 char max): Alliance Fire Department — Fire Department Telephone Number: (330) 821-1212 — 21

2.7 Latitude: Deg. Ø Min. Sec. — Longitude: Deg. Ø Min. Sec. — a. # of Employees

2.8 RCRA Identification #: OHD004213740 — a. NPDES Permit #: OH9767612

2.9 State Wastewater Facility #: N/A — a. Pretreatment #: N/A — 22

2.10 Air Permit Facility #: N/A — a. ☐ Check if list of Facility Permit numbers is attached.

(This Space for EPA use only)

3. Certification (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on data available to the owners/operator of this facility.

3.1 -Name and official title of owner/operator or senior management official at facility: David H. Clark, President — Office Telephone Number: (330) 296-4015 — 23

3.2 -Signature — Date Signed: / /

Ohio State Emergency Response Commission
Ohio EPA Emergency Planning and Community Right-to-Know
P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43216-1049

STAPLE

Emergency and Hazardous Chemical Inventory Form

Page ___ of ___ Pages

4.1 Facility Name: Crest Rubber Company Plant #2
City: Alliance, Ohio
County: Stark
Exact Street Location (no box #'s): 633 N. Union Avenue
Zip Code: 4 4 6 0 1

4.2 For Filing Date: 03/ 01/ 9 8
4.3 ☐ Check here if form and FACILITY MAP are Confidential and print "CONFIDENTIAL FORM" here: _____
4.4 ☒ Check if Revision
4.5 ☒ I Have Attached a Facility Map

5.0	Chemical Description										Hazard Class					Location of Chemicals						Amount			
	CAS REGISTRY NO.	SPECIFIC CHEMICAL NAME	PURE	MIXTURE	COMPONENTS	EHS CHEMICAL	SOLID	LIQUID	GAS	TADE SECRET	ACUTE	CHRONIC	FIRE	REACTIVE	RELEASE OF PRESSURE	B, T, OR A BUILDING, TANK OR AREA NO.	DIVISION OR ROOM LETTER	FLOOR	STORAGE TYPE CODE	PRESSURE & TEMPERATURE CONDITIONS	LOCATION-CONFIDENTIAL	MAXIMUM	AVERAGE	UNITS	NO. OF DAYS ON SITE
1	84-74-2	Dibutyl Phthalate (DBP)	X					X			X					B01	A	1	D	1,4		02	02	P	365
2	96-45-7	Ethylene Thiourea (PB (ETU)-75 Curebeads)		X			X					X				B01	A	1	E	1,4		02	02	P	365
3	137-26-8	Thiram (Methyl Tuads)		X			X					X				B01	A	1	J	1,4		02	02	P	365
4																									
5																									

CERTIFICATION *(READ AND SIGN AFTER COMPLETING ALL SECTIONS)*
I CERTIFY UNDER PENALITY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN PAGES ONE THROUGH _____, AND THAT BASED ON MY INQUIRY OF THOSE INDIVIDUALS RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE.

David H. Clark, President
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS AUTHORIZED REPRESENTATIVE | SIGNATURE | DATE SIGNED

CREST RUBBER COMPANY
CUSTOM MOLDED RUBBER PRODUCTS
RAVENNA 216-296-4015 KENT 216-678-9024 AKRON 216-630-9080
6408 NEWTON FALLS RD., P.O. BOX 312
RAVENNA, OH 44266

30840

THE HUNTINGTON NATIONAL BANK
KENT, OHIO 44240
56-1503/412

PAY Two hundred dollars and 00/100**********

DATE	AMOUNT
02/26/98	$200.00

TO THE ORDER OF Treasurer, State Of Ohio
Emergency Planning and Community
Right to Know Fund

VOID AFTER 6 MONTHS FROM DATE OF ISSUE

David H Clark

⑈030840⑈ ⑆041215032⑆ 0159153797 1⑈

CREST RUBBER COMPANY

30840

02/26/98

$200.00

Annual Chemical Inventory Filing

	Threshold		Sara 313
Acrylonitrile #107-13-1	10,000	EHS	✓
Antimony oxide #1309-64-4	—	—	
~~Ar~~ Arsenic Compound #7440-38-2	—	—	✓
Barium Sulfate #7727-43-7	—	—	—
Bis(dimethylthiocarbamoyl)disulfide #137-26-8	—	—	—
Butadiene #106-99-0	—	—	—
Butyl oleate #142-77-8	—	—	—
Cadmium #744-43-9	—	—	✓
Calcium Hydroxide #1305-62-0	—	—	—
Calcium Oxide #1305-78-8	—	—	—
Calcium Silicate #1344-95-2	—	—	—
Carbon Black #1333-86-4	—	—	—
Carbon tetrachloride #56-23-5	—	—	✓
Carbonyl fluoride #353-50-4	—	—	—

Name	Threshold	EHS	Sara III
Kaolin #1332-58-7	—	—	—
Lead #7439-921	—	—	✓
Lead monoxide #1317-36-8	—	—	—
Magnesium Oxide #1309-48-4	—	—	—
2Mercaptobenzothiazole #149-30-4	—	—	✓
Methyl Ethyl Ketone (MEK) #78-93-3	—	—	—
Morpholine #110-91-8	—	—	—
Morpholine 4-nitroso- #59-89-2	—	—	—
Phenol #108-95-2	500	✓	✓
P-Phenylenediamine #106-50-3	—	—	✓
Phthalic Anhydride #85-44-9	—	—	✓
Quartz dust #14808-60-7	—	—	—
Silica, Amorphous, fumes #7631-86-9	—	—	—

Name	Threshold		EHS	Sara III
Chloroform #67-66-3	10,000		✓	✓
2,2-Dibenzothiazyl disulfide #120-78-5	—		—	—
Dibuty Phthalate #84-74-2	—		—	✓
Diethylene glycol monobutyl ether #112-34-5	—		—	—
Diethyl hexyl adipate #103-23-1	—		—	—
Diethylhexyl phthalate #117-81-7	—		—	—
Diphenylamine #122-39-4	—		—	✓
Dodecylbenzenesulfonic Acid #27176-87-0	—		—	—
Epichlorohydrin #106-89-8	1,000	Hydrin 200 20 lbs	✓	✓
Ethylene Oxide #75-21-8	1,000	Hydrin 200 10 lb.	✓	✓
Ethylene thiourea #96-45-7	—		—	✓
Formaldehyde # 50-00-0	500		✓	✓
Hydrogen fluoride #7664-39-3	100	TEFMP 1000 Teflon Powder 7.5 lbs	✓	✓
Iron Oxide dust & fume #1039-37-1	—		—	—

Name	Threshold	EHS	Sara III
Silica, Quartz #14808-60-7	—	—	—
Stearic Acid #57-11-4	—	—	—
Sulfur #7704-34-9	—	—	—
Talc	—	—	—
Tetraethylthiuram disulphide #97-77-8	—	—	—
Thiram #137-26-8	—	—	✓
Titanium dioxide #13463-67-7	—	—	—
O-Toluidine #95-53-4	—	—	✓
Zinc #7440-66-6	—	—	—
Zinc oxide #1314-13-2	—	—	—
Zinc Stearate #557-05-1	—	—	—
Zineb #137-30-4	—	—	—

Chemical

Hydrin 200		Extremely HAZ		report	threshold	
200 lbs	Epichlorohydrin	#106-89-8	U041	100	1,000	
		<1.0%		Sara	01/01/87	
	Ethylene Oxide	#75-21-80	U115	10 lbs	1,000	
				Sara	01/01/87	
Hypalon 40						
220 lbs	Carbon tetrachloride	0.2% max #56-23-5	U211 D019	10 lbs	Sara 01/01/87	
	Chloroform	0.2% max #67-66-3 Extremely Haz (5000 lbs)	U044 D022	10 lbs	10,000 Sara 01/01/87	
TD-(ETU)-75 Cureboads						
100 lbs	Ethylene thiourea	#96-45-7	U116	10 lbs	Sara 01/87	
TP-90B						
430 lbs	Formaldehyde	0.10% #50-00-0 Extremely HAZ.	U122	100 lbs	500 lbs Sara 01/87	
Tuex Powder						
~~0~~	Tetramethylthiuram disulfide Bis(dimethythiocarbamoyl) disulfide	#137-26-8	U244	10 lbs.		
~~VANOX MTI~~ ~~MTI~~						
IN FRE AP-2 125 lbs.	Zinc	1.8-2.5% 7440-66-6		1,000 lbs		

				Report	Threshold
1E FMP1000 TeFLON POWDER					
75 lbs	Hydrogen fluoride #7664-39-3 <1% (Extremely Haz.)	U134		100 lbs	100 lbs. Sara 01/87
	Carbonyl fluoride #353-50-4 <1%	U033		1,000	
TMTD (METHYL TUADS)					
100 lbs	Thiram #137-26-8 97%	U244		10 lbs.	01/94
TE-70 Paste					
100 lbs	Dodecyl Benzene Sulfonic Acid & Sulfonate #27176-87-0			1,000	
-1045 Resin					
165 lbs	Formaldehyde ~~#50-00-0~~ >50 PPB (Extremely Haz)	U122		100 lbs	500 lbs Sara 01/87
SP-1068 Resin					
200 lbs	Formaldehyde ~~#50-00-0~~ >50 PPB (Extremely Haz)	U122		100 lbs	500 lbs Sara 01/87
Vanox ZS					
200 lbs	Fortified hindered phenol #108-95-2 (Extremely Haz.)	U188		1,000	500 Sara 01/87
Vulcacit 1000/C					
150 lbs.	Traces of o-toluidine #95-53-4	U328		100 lbs.	Sara 1/87
nc Oxide					
1000 lbs	Lead #7439-92-1	D008	Report 10 lbs.	.0025%	Sara 01/87 2.5 lbs
	Cadmium #7440-43-9	D006	10 lbs	.005%	01/87 2.5 lbs

Chemical	#	Reportable	Threshold Planning Quantities	Sara title III
Agerite Hipar T 200 lbs	122-39-4 diphenylamine <.4%	—	—	01/01/95
Antimony Oxide 50 lbs	7440-38-2 arsenic	1 lb.	—	01/01/87
Antozite 67P 200 lbs	106-50-3 P-Phenylenediamine	—	5,000	01/01/87
Captax 165 lbs.	149-30-4 2-Mercaptobenzothiazole	—	—	01/01/95
DBP 100% 1000 lbs	84-74-2 Dibutyl Phthalate	U069 10 lbs	—	01/01/87
DOP 100% 1000 lbs	117-81-7 Diethylhexyl Phthalate	100 lbs		—
Durez Resin #12687 2,000 lbs	108-95-2 Phenol Extremely haz.	U188 1,000	500	01/01/87
Mastermix Retarder PX4623-PB 100 lbs	85-44-9 Phthalic Anhydride	U190 5,000	—	01/01/87

GRT	—	— Not haz —
GW	—	— Not haz —
TW	Neoprene —	Talc
W	—	Talc
WB	—	Talc
WRT	—	Talc

Nevtac 100 — Not haz —

			Amount
Nipol 1000 X 132	Acrylonitrile	#107-13-1	<20 ppm
Nipol 1000 CG	Butadiene	#106-99-0	< 5 ppm.
Nipol 1002			
Nipol 1014			
Nipol 1034-60			
Nipol 1043			
Nipol 1051			

Nipol 1052	Acrylonitrile	107-13-1	<20 ppm
Nipol 1094-80	Butadiene	106-99-0	< 5 ppm
Nipol 1072	p-t-butyl phenol	98-54-4	< 0.1%
Nipol 1312 LV			

Stearic Acid F-1500 — Stearic Fatty Acids #57-11-4 90-100%

Struktol WB 212 — None —

Struktol WB-222 — None —

Sulfason R — 4,4-dithiodimorpholine #103-34-4
White mineral oil #8042-47-5 -1%

Sulfur — #7704-34-9 97-100%

Sundex 790 — Aromatic Hydrocarbons #64742-04-7

Sunpar 115 — Paraffinic distillate 100% #64741-83-4

Sunpar 2280 — Petroleum Oil #64742-01-4
Severely solvent refined residuum 100.00

TE-70 Paste — Dodecyl Benzene Sulfonic Acid
Report 1,000 — #27176-87-0 & ~~sulfonate~~ sulfonate

TE-88XL Powder — None —

SBR 1778 — Not haz
SBR Copolymer #9003-55-8 87-67%
Naphthenic Oil (treated) 64742-52-5
13-33%

Silene 732 — SIO2 Hydrate 87%
Contains no detectable crystalline silica.

Smoke Sheet (SMR-5L) — None —

Sodium Stearate — None —

SP-1045 Resin — Formaldehyde 50-00-0 > 50 PPB

SP 1068 Resin — Formaldehyde 50-00-0 > 50 PPB

Stan-Mag Bar — Naphthenic Distillate #64742-52-5
30-40%

Magnesium Oxide #1309-48-4 60-70%
9-Octadecenoic Acid Sorbitan #26266-58-8
1-5%

Stan Mag Magnesium Carbonate
Magnesium Carbonate 7760-50-1
90-100%

Stanguard 500 — Diphenylamine-Acetone Reaction product #9003-79-6 30-40%

Vanox ZMTI

2 H-Benzimidazole -2-thione, 1,3-dihydro-4 -methyl
zinc salt #61617-00-3 83% zinc comp.
<15.5% zinc content
Petroleum process oil #6471-96-4
#6471-97-5

Vanox ZS

Fortified hindered phenol report 1,000 Sara title III

Vanplast PL Paraffinic Oil

Varox DBPH-50 Powder

Vul Cup 40 KE

di [2-tertiary-butyl-peroxy-iso-propyl] benzene
#25155-25-3 40%

Vulcacit 1000/C

Traces of o-toluidine 95-53-4
report 100 lbs.

Whiting

Wingstay 100

Mixed diaryl-p-phenylenediamines #68953-84-4

Wingstay 29 Powder

Styrenated diphenylamine #68442-68-2

Hydrated amorphous silica #63231-67-4

Zinc Oxide

	Zinc Oxide	#1314-13-2	99.9%
Report 10 lbs Sara III	Lead	#7439-92-1	.0025%
Report 10 lbs Sara III	Cadmium	#7440-43-9	.005%

Zinc Stearate #557-05-1

Petrolatum SR-172 Petrolatum #64742-61-6

Piccopale 100 - Not reportable -

Plasticizer SC-B ~~Triethylene Glycol bis(2-ethylhexanoate) #94128-0~~

N/A

Polydispersion PZFD-85 Zinc Oxide 85%

Polydispersion T(HRL) D-90 Lead oxide 90%

Polyethylene AC-617A Polyethylene 9002-88-4

Polysulfide Type ST

Potasium Stearate (K-Chips)

PSC-127-6 70 Red

PSC-128-6 80 Red

RD-50 Zinc Peroxide 50%

Red-Lead #97

Resinal 70R Hydrocarbon petroleum 100%

Resinal 711 - Not haz -

Rhenogram S-80

Ricon 153 liquid - ~~Synthetic~~

Rite loc EC-5 (Thixon 926)

Santocure Pellets NS - N/A -

Santogard PVI N(cyclohexylthio phthalimide #17796-82-6
~~Butyl Oleate #142-77-8~~

Sara title III 100 lbs reportable

Nipol	DN-3335	Acrylonitrile #107-13-1	<20 ppm
Nipol	DN-3350	Butadiene #106-99-0	< 5 ppm.
Nipol	DN-3380		
Nipol	DN-4050		
Nipol	DN-4080		

Nipol	VT-330	Acrylonitrile #107-13-1	<2 mg/Kg
"	VT-335	Butadiene #106-99-0	<2mg/Kg
"	VT-380		
"	VT-455		
"	VT-480		

Nordel 1070
Nordel 1660 — Not haz —

Nucap 200	Kaolin	#1332-58-7	94.60% - 97.20%
	Silica Quartz	#14808-60-7	1.50% - 3.80%
	Titanium Dioxide	#13463-67-7	1.30% - 1.60%

NysN 35-5 — None —

OBTS Flake	Morpholine	#110-91-8	0.1 - 0.2%
	OBTS	#102-77-2	> 99%
	N-Nitrosomorpholine	59-89-2	<0.005%

TEFMP1000 TeFlon Powder

Ploytetrafluorethylene 9002-84-0 100%

Report 100 lbs Sara title III — Hydrogen Fluoride 7664-39-3 <1%

Report 1,000 lbs — Carbonyl Fluoride 353-50-4 <1%

Tetrone A — Dipentamethylene Thiuram Tetrasulfide #120-54-7 100%

Thiokol LP3 — None —

Thiokol ST — Talc / hydrous magnesium silicate #14807-96-6 1.00%

Titanium Dioxide TIO2

Titanium Dioxide #13463-67-7 84-97%

Amorphous Silica #7631-86-9 10%

Aluminum Hydroxides #21645-51-2 6%

Report 10 lbs Sara Title III

TMTD (Methyl Tuads) — Thiram #137-26-8 97%

Petroleum Process Oil #64742-65-0

TMTM — Tetramethylthiuram Monosulfide #97-74-5 >97%

T-759 — None —

TP-90B 5,8,11,13,16,19-Hexaoxatricosane #143-29-3
90-100%

Diethylene Glycol Monobutyl Ether/
2-(2-butoxyethoxy) Ethanol #112-34-5
1-5%

Formaldehyde # 50-00-0 0.10%
report 100 lbs.

TP-95
Diethylene Glycol Monobutyl Ether/
2-(2-Butoxyethoxy) Ethanol #112-34-5 1-5%

Tuex Powder Tetramethylthiuram disulfide #137-26-8
Bis(dimethythiocarbamoyl
report 10 lbs!

Van Wax H

Vanax NP

Vanfre AP-2 Proprietary ingredient Report 1,000
Zinc Compound 1.8-2.5% zinc

Vanox MTI 2 H-Benzimidazole-2-thione,
1,3-dihydro-4 or 5 -methyl #53988-10-6

Octamine #101-67-7

Okerin 127 Pastilles

Para Flux 2016

Paracril AJ — Not haz —

Paracril BCT-M75

Paraffin Wax 1230 — None —

Paragon Clay Kaolin #1332-58-7 98.70%
Titanium Dioxide 13463-67-7 1.70%

Paraplex G-25 — None —

Paraplex G-62 — None —

PB-(ETU)-75 Curebeads Ethylene Thiourea (Etu) 75%
Carcinogen ~~must report 10 lbs #96-45-7~~
10 lbs must report 96-45-7

Pepton 44 Peptizer Calcium silicate
Amorphous silica 1.0%

Epsyn P557 LC — Epdm # 25038-36-2 — 75% (90)

Petroleum Oil #64741-88-4 50%
Severely treated #64742-01-4

Ethyl Tuads — Tetraethyl thiuram disulfide

Europrene AR-153 — NONE —

Europrene AR-157 — NONE —

Firebrake ZB — NONE —

Fluorel FC 2121

Fluorel FC 2170 — 1-propene, 1, 1, 2, 3, 3, 3-hexafluoro-
polymer with 1, 1-difluoroethene
→ # 9011-17-0 96.0 - 98.0%
Phenol, 4, 4'- 2, 2, 2- trifluoro-1-
trifluro -methyl ethylidene bis
→ # 1478-61-1 2.0 - 3.0%

~~#~~
Hi Sil 233

SIO2 Hydrate 87%
Contains no detectable crystalline Silica
007631 86 9

Hi Sil 243LD — SIO2 Hydrate 87%
contains no detectable crystalline Silica
#007631 86 9

Hi Sil 532 EP — SIO2 Hydrate 87%
#007631 869
Contains no detectable crystalline Silica

Hydrated Lime — Calcium Hydroxide 95%

Hydrin 200 — Epichlorohydrin < 1.0 %
#106-89-8
Report 100 lbs Sara Title III sec 313
Ethylene oxide < 0.5 %
#75-21-80 Reportable 10 lbs Sara title III Sec 313

Hypalon 40 — Carbon tetrachloride #56-23-5 0.2% max
Chloroform #67-66-3 0.2% max
Talc #14807-96-6 2%
Reportable 10 lbs Sara Title III
Sara title III Section 313
< 0.2% carbon tetrachloride
Reportable 10 lbs Sara title III

Hytemp AR 71

Kadox 911C (OLD Protox 169)

Kemamide W20 #110-31-6

Kencolor K6270 Iron Oxide #1309-37-1 75%

K-P 140 Tri-Butoxyethyl Phosphate 100%
78-51-3

Litcharge 33 Lead monoxide #1317-36-8 99.9%

Maglite D Magnesium Oxide #1309-48-4 100%

Maglite Y Magnesium Oxide #1309-48-4 100%

Mastermix Retarder PX 4623-PD Phthalic Anhydride
85-44-9 70%
Reportable 5,000 lbs Sara title III
Hydrotreated Heavy Naphthenic 30%

MBT Mineral Oil # 64741-88-4 1-2%

MBTS Accelerator	Mineral Oil	64742-55-8 or 64742-56-9	1-5%
	Zinc Stearate	557-05-1	<1%
McNamee Clay	Kaolin Clay	#1332-58-7	95-98%
	Quartz	#14808-60-7	<1.0-5%
	Mica	#1318-94-1	<1-3%
Methyl Zimate	Zinc dimethyldithiocarbamate treated with petroleum process oil #64742 55-8 + 64742-56-9		
~~Sara Title III Section 313 Ingredients~~ →	Zinc compound containing zinc. #137-30-4 — Ziram —		19.5-23%
Millathane 76	— Not haz. —		
Mistron Vapor	Talc	#14807-96-6	>90%
Molysulfide MOS2-100	Molybdenum disulfide #1317-33-5		100%
Morfax	Paraffinic oil	#64741-88-4	

N110
N220
N231
N315
N325
N326 Carbon Black # 1333-86-4 99%
N330
N550
N650
N660
N762
N774
N990
N991

Natsyn 2200

Naugard 495 2-Mercapto-4(5)-methylbenzimidazole
53988-10-4 40-70 %

Naugard NBC —Not haz —

Naugard Para — Not haz. —

Paul, I told Jan to check mark the ones they are unable to find. Shara

Alliance

ICODE	VCODE	ITEM
A-131	208	1182 MIXED RUBBER 0 Can't find
A-130-6	148	50 WHITE SE-6160 PER MS-041 SIL. 0
A-140-1	116	7007 COMPOUND 0
A-130-7	120	7035GP SILICONE PER AMS 3304 0
A-33	102	ADIPRENE C ✓
A-34	102	ADIPRENE CM 55# NOT Hazardous
A-40-4	127	AFLAS FA100S 0
E-67	145	AFLUX 54 10#
D-18	100	AGERITE HIPAR T ✓
D-2	100	AGERITE RESIN D (FLECTOL H) 150#
D-1	100	AGERITE STALITE S 20#
D-19	100	AGERITE SUPERLITE 25#
E-42	142	AKROTAK-100 50#
D-14	100	ALTAX ✓
D-13	100	AMAX 50# 4-(2-benzothiazolylthio 102-77-2
D-12	117	AMINOX 10#
A-112-17	120	AMS3304 7035 GP ORANGE SILICONE 0
A-112-15	120	AMS3327 7576FS BLUE SILICONE 0
A-112-16	120	AMS3357 70360R ORANGE SILICONE 0
E-32	123	ANTI-OXIDANT 2246 ✓
C-13	102	ANTIMONY OXIDE H
D-15	100	ANTOZITE 67P 25# N-(1,3-Dimethylbutyl)-N-phenyl-p-phenylendiamine cas. 793-24-8
72	107	ARAX B-18 ✓
66	110	ARO-60 N754 CARBON BLACK 1000#
B-21	102	AUSTIN BLACK 325 100#
A-71	118	B200 SILICONE 0
D-20	128	BARYTES 20# Barium Sulfate 7727-43-7 99+%
C-70	119	BAYFERROX RED 120 NM ✓ Silica-Quartz 14808-60-7 0.1-1.0%
A-103	120	BL FLSIL. MIL R 25988 0
A-29-2	142	BROMOBUTYL X2 - STRIPPABLE ✓
A-21	100	BUDENE 1208 2550
B-54	137	BUFFINGS MR-310 4 gaylord boxes + 50#
A-29-1	100	BUTYL 268 15#
A-29	100	BUTYL 365 ✓
E-9	102	BUTYL OLEATE 420# Butyl Oleate # 142-77-8
C-45	100	BUTYL ZIMATE 30# 98% Zinc comp. containing 13-15% zinc dibutyldithiocarbamate 136-23-2
A-130-8	118	C751 50 DURO CLEAR SILICONE 0
B-20	121	CABOSIL M7D 40# Silicon Dioxide 112945-52-5
C-34	104	CALCIUM HYDROXIDE 50#
E-16	103	CALSOL 8120 29gl
D-11	100	CAPTAX 10#
D-40	102	CARBOWAX 3350 5#
A-11	188	CARIFLEX HIGH CIS BR 1220 40#
E-13	128	CASTOR OIL #1 400#
C-14	102	CAYTUR 4 40#
C-19	113	CBS 10 oz.
A-58	100	CHEMIGUM N-300
57	100	CHEMIGUM NX-775 225#
110-1	102	COPO 1502 1050#
A-110	102	COPO 1507 910#
A-140-2	163	CR213 MIL-R-3065 SC715A1B1F2 ✓
E-7	229	CUMAR P-25 360#

CODE	VCODE	ITEM
E-8	122	CUMAR W 2 1/2 20#
A-32	107	CYANACRYL R 20#
E-60	103	CYCLOLUBE 2290 40#
E-1	103	CYCOLUBE RFO (CIRCOLITE) 420#
E-28	104	D-149 WET INTERNAL LUBE ✓
D-5	100	DARVAN L 0
E-2	108	DBP 160#
E-24	117	DELAC S POWDER ✓
D-85	102	DESICAL 85 ✓
C-17	102	DI CUP 40C 35#
C-63-1	144	DIAK #7 72#
C-33	104	DIETHYLENE GLYCOL ✓
B-12	100	DIXIE CLAY 40#
E-19	108	DOA 480#
E-6	108	DOP 400#
E-12	102	DOS 400#
C-11	100	DPG (VANAX DPG) ✓
E-23	142	DQ POWDER ✓
E-62	125	DRAKEOL 35 ✓
B-25	128	DUREZ RESIN 12687 300#
A-36	107	DUTRAL TER 4044 ✓
A-125-5	147	EE-18060 0
.25-8	147	EE-2200 GLT 0
.26	147	EE-4505 BLACK VITON CEMENT 0
A-125-4	147	EE-45050 0
A-125-3	147	EE-50015 0
A-125-13	147	EE-50060 0
A-125-12	147	EE-5070 FDA 0
A-125-16	147	EE-5670 FDA 0
A-125	147	EE-60075 0
A-125-1	147	EE-60075 BROWN 0
A-125-2	147	EE-60090 0
A-125-11	147	EE-6175 VITON GF 5#
A-125-6	147	EE-6500 BROWN 0
A-125-7	147	EE-7000 BROWN 0
A-125-10	147	EE-7550 VITON B 0
A-126-1	147	EE-CORD STOCK .210 C/S +/- .080 0
A-126-2	147	EE-CORD STOCK .275 C/S +/- .010 0
C-27	145	END-75 ETU POLY-DISPERSION ✓
D-33	102 ✓	EPOLENE N-34 WAX 30#
~~D-33-1~~	~~102~~	EPOLENE N-34P WAX CAN'T find
C-28	102 ✓	EPON 828 103
A-83	102	EPSYN 40-A 2 Bags
A-30-4	102	EPSYN 4506 ✓
A-30	102	EPSYN P557 LC 1350#
D-32	100	ETHYL TUADS 30#
A-111	107	EUROPRENE AR-153-EP ✓
A-79	107	EUROPRENE AR157 ✓
.8	102	FIREBRAKE ZB 10#
A-40-2	127	FLUOREL FC-2121 55#
A-40-1	127	FLUOREL FC-2170 25#
A-40-3	127	FLUOREL FC-2174 ✓

dibutyl phthalate reportable 10 lbs.

Di-Octyl Sebacate Ester 122-62-3

ICODE	VCODE	ITEM	
A-125-14	147	FMS 17633	0
A-125-15	147	FMS 17636	0
A-125-16	147	FMS 17640	0
A-125-17	147	FMS 17654	0
A-96	215	FSE-7140 SILICONE	0
A-97	215	FSE-7540 SILICONE	0
D-4	100	HELIOZONE (VAN WAX H)	
B-19-1	102	HI SIL 233	100#
B-19	102	HI SIL 243 LD	30#
B-19-2	102	HI SIL 532 EP	128#
B-12	192	HYDRATED LIME	180#
A-38-3	101	HYDFIN 100	✓
A-38	101	HYDFIN 200	10#
A-35	100	HYFALON 40	130#
A-32-1	101	HYTEMP AR 71	10#
F-17	129	J3103 RED IRON OXIDE	✓
C-64	130	KADOX 911C (OLD PROTOX 169)	✓
A-41	102	KELTAN 7506	✓
C-79	131	KEMAMIDE W20	✓
F-13	132	KENCOLOR K6270 (RED #297)	50#
E-5	104	KP-140	48#
C-80	133	LITHARGE 33	5#
43	200	LITHOPONE	3880#
8	108	M.E.K.	0
C-6	104	MAGLITE D	105#
C-7	104	MAGLITE Y	30#
C-68	102	MASTERMIX RET. PX4623-PD	30#
C-15	113	MBT	✓
C-4	113	METS DUSTLESS POWDER	225#
B-11	100	MCNAMEE CLAY	25#
C-20	100	METHYL ZIMATE (POWDER)	50#
A-113	120	MIL-R-25988B T-2 C-1 G-70	0
A-39	194	MILLATHANE 76	20#
A-33-1	102	MILLITHANE E-34	✓
E-35	124	MIN-U-SIL (MICRON SIZE 5)	✓
E-15	190	MISTRON VAPOR	425#
D-31	135	MOLD WIZ IMRI	✓
E-55	136	MOLYSULFIDE MOS2-100 FINE	30#
C-10	100	MOPEAX 20	
E-9	110	N110 CARBON BLACK	20#
E-8	112	N220 CARBON BLACK	5#
E-57	110	N231 CARBON BLACK	50#
E-71	110	N315 CARBON BLACK	100#
E-20-1	110	N325 CARBON BLACK	✓
E-56	110	N326 CARBON BLACK	✓
E-7	110	N330 CARBON BLACK	2250#
E-5	110	N550 CARBON BLACK	3000#
64	110	N650 CARBON BLACK	30#
4	110	N660 CARBON BLACK	2700#
E-3	110	N762 CARBON BLACK	700#
E-31	110	N774 CARBON BLACK	2000#
E-1	100	N990 CARBON BLACK	950#
		N754 " "	1000#

Carbon black >99

1333864

CODE	VCODE	ITEM	
F-42	100	N991 CARBON BLACK	
A-42	100	NATSYN 2200	50#
D-29-1	117	NAUGARD 495	25#
D-17	117	NAUGARD NBC NICKEL DIBUTYL DITHI	100#
D-29-2	117	NAUGARD PANA	50#
A-17	100	NEOPRENE GNA	0
A-16	100	NEOPRENE GRT	~~55#~~ 330#
A-17-2	100	NEOPRENE GW	~~725#~~ 1325#
A-48	100	NEOPRENE TW	55#
A-18	100	NEOPRENE W	21#
A-23	100	NEOPRENE WB	80#
A-19	100	NEOPRENE WFT	220#
E-44	229	NEVTAC 100	150#
A-9	101	NIPOL 1000 X 132	
A-4	101	NIPOL 1001 CG	228#
A-13	101	NIPOL 1001 F	
A-12	101	NIPOL 1002	400#
A-2	101	NIPOL 1014	350#
A-3	101	NIPOL 1022	
A-14	101	NIPOL 1034-60	450#
A-5	101	NIPOL 1043	250#
A-6	101	NIPOL 1051	950#
7	101	NIPOL 1052	
8	101	NIPOL 1072	200#
A-150	101	NIPOL 1082	
A-15	101	NIPOL 1094-80	350#
A-10	101	NIPOL 1203-60	
A-20	101	NIPOL 1312 LV	
A-91	101	NIPOL 4051 EP	
A-25	101	NIPOL DN-3335	
A-91	101	NIPOL DN-3350	2000#
A-27	101	NIPOL DN-3380	100#
A-28	101	NIPOL DN-4050	300#
A-44	101	NIPOL DN-4080	
A-92	101	NIPOL VT-330	1500#
A-63	101	NIPOL VT-355	350#
A-64	101	NIPOL VT-380	600#
A-93	101	NIPOL VT-455	1300#
A-66	101	NIPOL VT-480	600#
A-30-2	100	NORDEL 1040	
A-30-1	100	NORDEL 1070 (NON STRIPABLE)	825#
A-24	100	NORDEL 1145	
A-22	100	NORDEL 1440	
A-30-3	100	NORDEL 1660	
E-13	111	NUCAP 200	20#
A-50	102	NYSN 35-5	300#
A-54	102	NYSNBLACK 9025	
A-25	142	OPTS FLAKE	50#
27	117	OCTAMINE	750#
K-23		OFF SPEC CARBON BLACK	15000#
D-23-2	113	OKERIN 2240 WAX-OLD SUNOLITE 240	
C-29	104	PARA FLUX 2016	240#

ICODE	VCODE	ITEM
A-99	117	PARACRIL AO ✓
A-94	117	PARACRIL ALT 0
A-95	117	PARACRIL ALT-BTS 0
D-26	104	PARAFFIN WAX 1230 25#
P-14	111	PARAGON CLAY 160#
E-18	104	PARAPLEX G-25 90#
E-22	104	PARAPLEX G-62 300#
E-30	106	PB-DOTG-75 ✓
D-34	106	PBETU-75 (OLD NA-22) 55#
E-37	102	PEG 8000 ✓
E-63	123	PEPTON 44 PEPTIZER ✓
E-4-2	108	PERK 0
E-11	104	PETROLATUM SR-172 48#
C-26	102	PICCOPALE 100 ✓
E-3	102	PLASTICIZER SC-D 440#
E-3-1	102	PLASTICIZER SC-E ✓
E-20	224	POLYDEX E(DYPHOS)75 ✓
C-24	145	POLYDISPERSION PZFD-85 ✓
C-23	145	POLYDISPERSION T(HRL)D-90 ✓
E-15	139	POLYETHYLENE AC-6170 15#
A-89	140	POLYSULFIDE TYPE ST 160#
C-78	102	POTASIUM STEARATE (K-CHIPS) ✓
112-19	141	PRX-10278A-6 70 WHITE 0
112-20	141	PRX-12023A6-BL 75 BLUE 0
A-112-4	141	PSC-123-6 32 BLACK 0
A-112-1	141	PSC-1235-6 35 DURO RED 0
A-112-10	141	PSC-124-6 40 RED 0
A-112-6	141	PSC-1245-6 45 RED 0
A-112-11	141	PSC-125-6 50 RED 0
A-112-7	141	PSC-1255-6 55 RED 0
A-112-12	141	PSC-126-6 60 RED 0
A-112-8	141	PSC-1265-6 65 RED 0
A-112-5	141	PSC-127-6 70 RED 0
A-112-28	141	PSC-127-6 70 BLACK 0
A-112-9	141	PSC-1275-6 75 RED 0
A-112-18	141	PSC-1275-6 75 BLACK 2#
A-112-13	141	PSC-128-6 80 RED 0
A-112-3	141	PSC-1288-6 67 DURO RED 0
A-112-14	141	PSC-129-6 90 RED 0
A-112	141	PSC-826-6 60 WHITE (FDA APROVED) 0
A-112-22	141	PSC-827-6 70 WHITE (FDA APROVED) 0
A-112-23	141	PSC-828-6 80 RED (FDA APROVED) 0
A-112-21	141	PSC-828-6 80 WHITE (FDA APROVED) 0
D-35	232	RD-50 ZINC PEROXIDE 50% 200#
E-21	142	RED LEAD #97 ✓
C-8	102	REDIMIX 9442 ✓
E-45	113	RESINAL 708 ✓
43	113	RESINAL 711 80#
2	145	RHENOGRAM S-80 ✓
E-34	193	RICON 153 LIQUID 10#
F-16	100	RODO 10 ✓
C-65	102	SANTOCURE PELLETS NS ✓

ICODE	VCODE	ITEM	
D-30-1	102	SANTOGARD PVI	40#
D-30	106	SANTOGARD PVI-50	✓
A-37	198	SEK 1772	2700#
A-112-2	141	SE-5504 SILICONE	0
A-112-27	141	SFX-14036A-6 AME 3327	0
A-112-26	141	SFX-14113 A-6 BL-MIL 25988	0
A-112-29	141	SFX-16141 A-6 BL R25988 T2 C1 G6	0
D-21	114	SI69	8#
R-18	102	SILENE 732	10#
A-26	146	SMOKE SHEET (SMR-5)	440#
C-22	113	SODIUM STEARATE	10#
D-28-1	146	SP1045 RESIN	50#
I-29	146	SP1055	10#
C-53	102	STAN MAG BAR	30#
C-18	102	STAN MAG CARBONATE	✓
D-41	102	STANGUARD 500	10#
E-70	102	STEARIC ACID E-2000	✓
C-1	103	STEARIC ACID INDUSTRENE R	25#
E-25-5	114	STRUCTOL WB-212	15#
E-66	114	STRUCTOL WB-222	50#
C-12	102	SULFASAN R POWDER	✓
C-3	103	SULFUR RM 90	400#
10	103	SUNDEX 790	840#
23-1	115	SUNOLITE 127 PASTILLES	50#
D-23	115	SUNOLITE 240 WAX	20#
E-26	103	SUNPAR 115	600#
E-25	105	SUNPAR 2280	440#
A-130-4	141	SVX-10276A-6 70 WHITE GLOSSY SIL	0
A-112-25	141	SVX-10325A-6 CLEAR FOR RAVENNA	0
A-112-24	141	SVX-12038A-6 BLUE	0
E-25	145	TE-70 PASTE	100#
E-71	145	TE-88XL POWDER	25#
F-19	149	TEFMP1000 TEFLON POWDER	30#
C-16	142	TETRONE A	20#
A-31	140	THIOKOL LP3	24#
A-31-1	140	THIOKOL ST	40#
R-31-1	142	TITANIUM DIOXIDE TIO2	6#
D-5	114	TMQ (FLECTOL H & AGERITE RES. D)	✓
C-9	100	TMTD (METHYL TUADS)	100#
C-5	113	TMTM (MONEX)	200#
E-4-2	109	TOLULENE	0
E-63-1	140	TP-759	200
E-14-1	140	TP-759	
E-14	140	TP-95	300#
E-27	117	TUEX POWDER	✓
E-31	130	UOP-688	✓
D-28	100	VAN WAX H	55#
67	100	VANAX NP	160#
25-2	100	VANFRE AP-2	25#
D-43-1	100	VANOX MTI	✓
D-43	100	VANOX ZMTI	150#
-44	100	VANOX ZS	✓

ICODE	VCODE	ITEM
E-46	100	VANPLAST PL 640#
E-32	100	VAROX DBPH-50 POWDER 15#
A-70	144	VITON B-910 0
A-40-10	144	VITON CURATIVE 20 0
C-63	144	VITON CURATIVE 30 0
A-125-9	147	VITON GF 0
E-61	144	VPA #2 ✓
C-17-1	102	VUL CUF 40 KE 100#
C-73	145	VULCACIT 1000/C 150#
C-2	186	VULTAC 5 ✓
B-16	164	WHITING 40#
D-24	100	WINGSTAY 100 100#
D-23	100	WINGSTAY 29 20#
I-16	113	ZEOSIL 125 ✓
C-51	103	ZINC OXIDE AZO 77H 100#
C-41	113	ZINC STEARATE, DISPERSOL WETTABL 200#

Precise Molded Products For Specific Needs

CREST RUBBER COMPANY, INC.

6408 NEWTON FALLS ROAD • P.O. BOX 312 • RAVENNA, OHIO 44266
RAVENNA (216) 296-4015 — TALLMADGE 630-9080 — AKRON 678-9024
FAX (216) 296-4684

October 27, 1992

Alliance Fire Department
66 E. Broadway
Alliance, Ohio 44601
Attn: David Shuster

Dear Sir:

Per 40 CFR 761.30 we must inform your department of known PCB transformers within our properties.

Crest Rubber Company has recently purchased Alliance Rubber Company, located at 888 N. Union, in Alliance. At this location, 4 poles containing 8 transformers each, stand in the lot between the buildings. I have enclosed a sketch showing how these poles are identified, also enclosed are the test results for PCB's as was performed this summer. Three of the transformers were identified as PCB types.

Emergency phone numbers should be recorded in your files as follows.

Crest Rubber Company (Alliance) 821-3929
Crest Rubber Company (Ravenna) 296-4015
Bill Shayler (Home) 296-3790

Please consider this letter and attached photocopies as your official notification. I will be happy to answer any further questions that arise.

Sincerely,

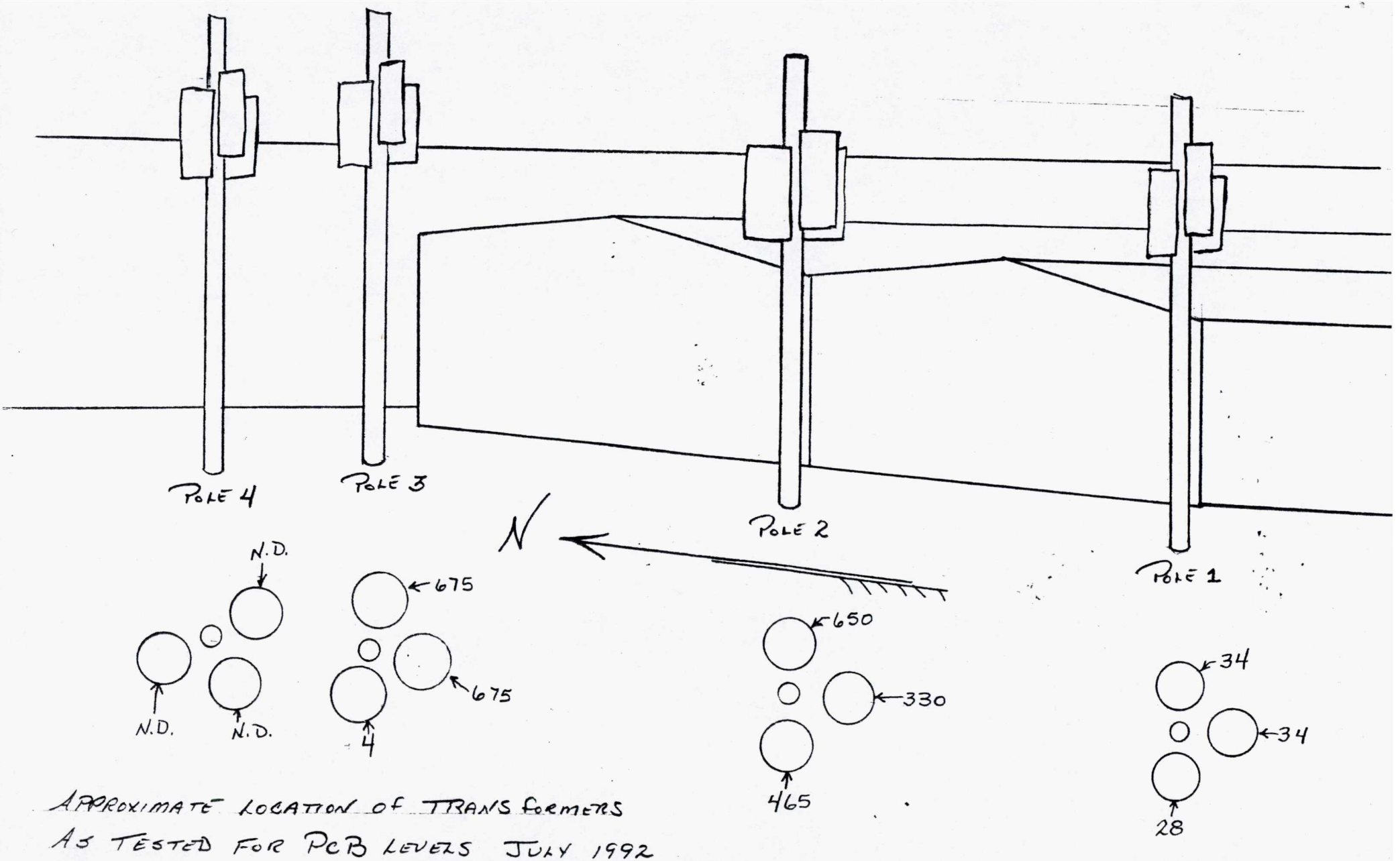
Bill Shayler

Bill Shayler
Crest Rubber Company

rc/bs/encl.

SPLICED RINGS & GASKETS
COMPOUNDS TO MEET GOVERNMENT SPECIFICATIONS OR YOUR SPECIFIC REQUIREMENTS
SEALS FOR OILS & SOLVENTS - MISCELLANEOUS AIRCRAFT PARTS - BONDING RUBBER TO METAL
MECHANICAL GOODS

633 UNION ST. ALLIANCE OHIO



APPROXIMATE LOCATION OF TRANSFORMERS
AS TESTED FOR PCB LEVELS JULY 1992

FORMS [illegible] (REV 10-83)

OHIO EDISON COMPANY

PCB ANALYSIS REPORT

RECEIVED

JUL 27 1992

CENTRAL CHEMICAL LABORATORY

DIVISION / PLANT STARK NO.

DATE OF SAMPLE: 7/23/

DEPARTMENT: ☒ SUBSTATION ☒ LINE ☐ UNDERGROUND ☐ METER ☐ PRODUCTION

☐ OTHER

TYPE EQUIPMENT: ☒ TRANSFORMER ☐ REGULATOR ☐ CKT. BKR. ☐ STORAGE TANK

☐ OTHER

EQUIP. RATING: 3- 75 KVA F1843 - Red S

IDENTIFICATION: Red South, Blue South, White South F1844 - Blue S

MANUFACTURER: S/N: F1845 - White S

QUANTITY OF OIL:

PCB CONCENTRATION PARTS PER MILLION (PPM)

AKRON SAMPLE NO.	1260	1254	1242	OTHER	TOT
F1843	28				28
F1844	34				34
F1845	34				34

REMARKS:

F-1843	F-1844	F-1845
wt. .5036 Rush	wt. .5004	wt. .5025
S. .06 Customer Test	S. .0608	S. .062
CL. .0070	CL. .0081	CL. .0074
ID. 1:1	ID. 1:1	ID. 1:1

0800 [illegible]

COPIES OF TEST DATA TO:

CENTRAL CHEM. LAB FILE

E. J. Vujcvich - 12th Floor - G.O.

R. A. Tolbert - S. Erie St. - Massillon

R. E. Warner - Oyster Rd. - Alliance

CENTRAL CHEMICAL LAB

DATE OF ANALYSIS 7/27: F1843 7/28: F1844-1845

ANALYST JR

APPROVED BY [illegible]

CHARGE TEST TO:

Z020716 - 6194

FUNCTION NO. AREA

[illegible]

CREST BLDG.

CREST -

FORMS X-912 (REV.10-83)

OHIO EDISON COMPANY

PCB ANALYSIS REPORT

RECEIVED
JUL 27 1992
CENTRAL CHEMICAL LABORATORY

DIVISION / PLANT: STARK NO.

DATE OF SAMPLE: 8/23/92

DEPARTMENT: ☐ SUBSTATION ☒ LINE ☐ UNDERGROUND ☐ METER ☐ PRODUCTION

☐ OTHER

TYPE EQUIPMENT: ☐ TRANSFORMER ☐ REGULATOR ☐ CKT. BKR. ☐ STORAGE TANK

☐ OTHER

EQUIP. RATING: 3-75KVA F1840 - Red #2

IDENTIFICATION: Red #2, Blue #2, White #2 F1841 - Blue #2

MANUFACTURER: S/N: F1842 - White #2

QUANTITY OF OIL:

PCB CONCENTRATION PARTS PER MILLION (PPM)

AKRON SAMPLE NO.	1260	1254	1242	OTHER	TOTA
F1840	465				465
F1841	330				330
F1842	650				650

REMARKS:

F-1840	F-1841	F-1842
wt. .5067 Rush	wt. .5007	wt. .507
S. .0675 Customer Tests	S. .0715	S. .075
CL. .0901	CL. .0657	CL. .111
ID. 1:25	ID. 1:25	ID. 1:2
rad. 1:10 & prev. 7/28: 760, 7/29: 470, Dec. 465	rad. 1:10	rad. 1:10, Rad. 7/29: Farmer

COPIES OF TEST DATA TO:

CENTRAL CHEM. LAB FILE

E. J. Vujovich - 12th Floor - G.O.

R. A. Tolbert - S. Erie St. - Massillon

R. E. Warner - Oyster Rd. - Alliance

CENTRAL CHEMICAL LAB

DATE OF ANALYSIS 7/27/92: F1842, 7/28/92: F1840-F18

ANALYST JR

APPROVED BY [signature]

CHARGE TEST TO:

Z020716 — 6194

FUNCTION NO. AREA

RECEIVED

JUL 31 1992

CENTRAL CHEMICAL LABORATORY

OHIO EDISON COMPANY

PCB ANALYSIS REPORT

DIVISION / PLANT STARK # 1175A 1176A 1177A

DATE OF SAMPLE: 7-30-92

DEPARTMENT: ☐ SUBSTATION ☒ LINE ☐ UNDERGROUND ☐ METER ☐ PRODUCTION

☐ OTHER

TYPE EQUIPMENT: ☒ TRANSFORMER ☐ REGULATOR ☐ CKT. BKR. ☐ STORAGE TANK

☐ OTHER CUSTOMER OWNED

EQUIP. RATING:

IDENTIFICATION: WHITE #3, BLUE #3, RED #3

MANUFACTURER: S/N:

QUANTITY OF OIL:

PCB CONCENTRATION PARTS PER MILLION (PPM)

SAMPLE NO.	1260	1254	1242	OTHER	TOTAL
F468	4				4
F469	675				675
F470	675				675

REMARKS: PLEASE RUSH

F-468
wt. .5054
S. .0666
CL. .0051
ID. STR

F-469
wt. .5066
S. .0761
CL. .1015
ID. 1:25

0800 8/4: Fax RD

F-470
wt. .5037
S. .0721
CL. .1040
ID. 1:25

COPIES OF TEST DATA TO:

CENTRAL CHEM. LAB FILE

ELI VUJOVICH - 8TH FLOOR

R. A. TOLBERT - MASSILLON

ENGINEERING - MASSILLON

RANDY DOYLE

CENTRAL CHEMICAL LAB

DATE OF ANALYSIS 8/3/92: F469, F470 8/4/92: F468

ANALYST JR/AC

APPROVED BY

CHARGE TEST TO:

20020716 - 6194

FORMS X-812 (REV10-83)

OHIO EDISON COMPANY
PCB ANALYSIS REPORT

RECEIVED
JUL 31 1992
CENTRAL CHEMICAL LABORATORY

DIVISION / PLANT STARK NO. 1178A 1179A 1180A

DATE OF SAMPLE: 7-30-92

DEPARTMENT: ☐ SUBSTATION ☒ LINE ☐ UNDERGROUND ☐ METER ☐ PRODUCTION
☐ OTHER

TYPE EQUIPMENT: ☒ TRANSFORMER ☐ REGULATOR ☐ CKT. BKR. ☐ STORAGE TANK
☐ OTHER CUSTOMER OWNED

EQUIP. RATING:

IDENTIFICATION: WHITE #4, BLUE #4, RED #4

MANUFACTURER: S/N:

QUANTITY OF OIL:

PCB CONCENTRATION PARTS PER MILLION (PPM)

SAMPLE NO.	1260	1254	1242	OTHER	TOTAL
F471				None Detected	
F472				None Detected	
F473				None Detected	

REMARKS: PLEASE RUSH

F471	472	473
vol. = .5023	wt. = .5052	wt. = .504
S = .7733	S = .7672	S = .9134
Cl = -.0031	Cl = -.0005	Cl = .0011
ID. = NONE	ID. = NONE	ID. = NONE
1:25	1:25	1:25

Storage [illegible] 8/3
[illegible] 8/4
[illegible] 8/4: FOOD RD

COPIES OF TEST DATA TO:

CENTRAL CHEM. LAB FILE

E. J. Vujovich - 12th Floor

R. A. Tolbert - S. Erie St. - Massillon

~~[illegible]~~ - S. Erie St. - Massillon

RANDY DOYLE

CENTRAL CHEMICAL LAB

DATE OF ANALYSIS 8/4/92

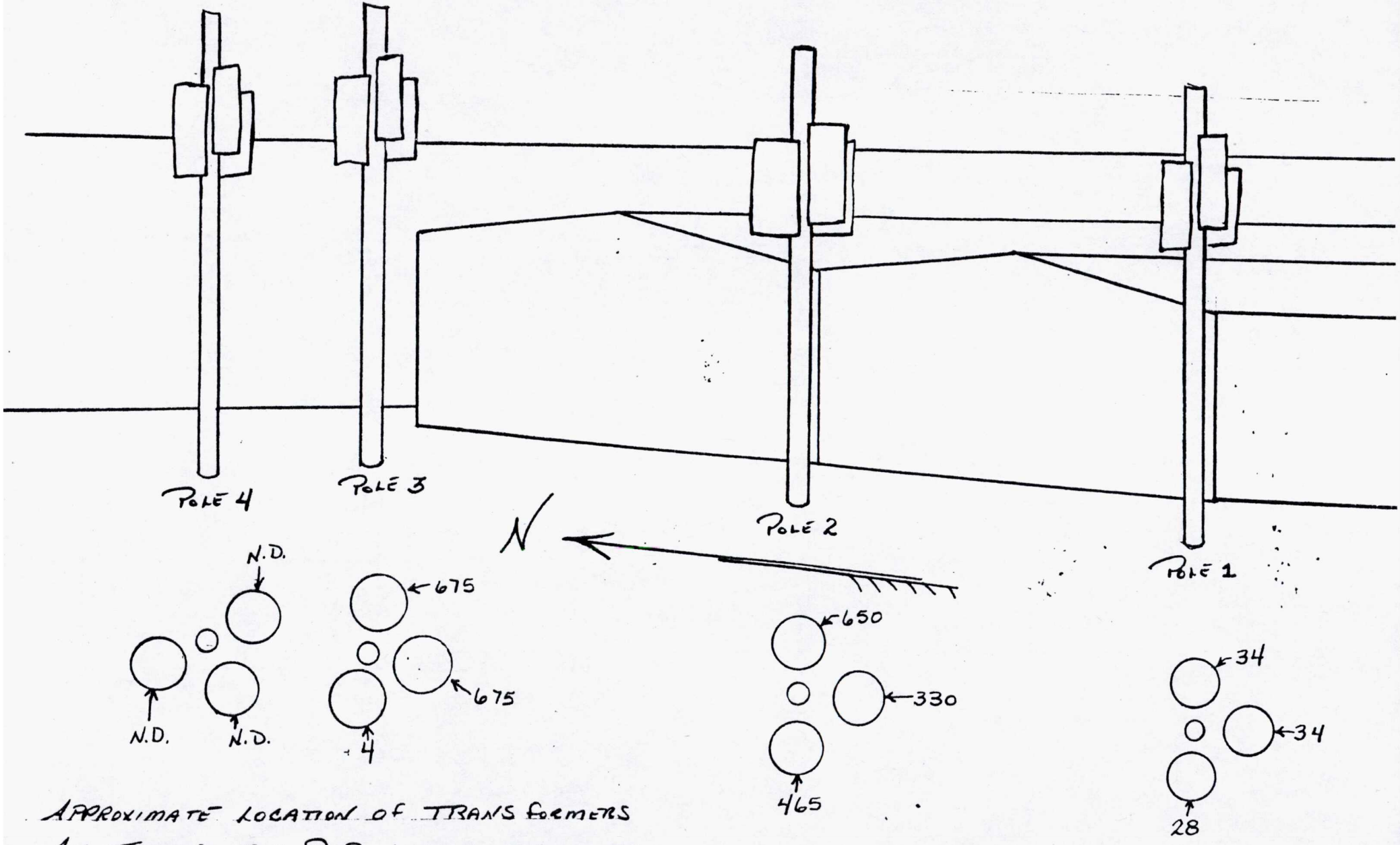
ANALYST AC

APPROVED BY ECA

CHARGE TEST TO:

Z020716 - 6194

633 UNION ST. ALLIANCE OHIO



APPROXIMATE LOCATION OF TRANSFORMERS
AS TESTED FOR PCB LEVELS JULY 1992