Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

# FINAL PERMIT

**PERMITTEE**

Global Tire Recycling of Sumter County, Inc.
1201 Industrial Drive
Wildwood, Florida 34785

Air Permit No. 1190028-007-AO
Permit Expires: 11/6/2017
Minor Air Operation Permit
Project Name: Operation Permit Renewal

Authorized Representative:
Mr. Mark J. Bailey,
Vice President Plant Operations

This is the final permit to renew Air Operation Permit No. 1190028-006-AO for a crumb rubber milling facility (Standard Industrial Classification No. 3011). The facility is located in Sumter County at 1201 Industrial Drive in Wildwood, Florida 34785, Florida. The UTM coordinates are Zone 17, 397.5 km East, and 3192.2 km North.

This final permit is organized by the following sections:

Section 1. General Information

Section 2. Administrative Requirements and Facility-wide Specific Conditions

Section 3. Emissions Unit Specific Conditions

Section 4. Appendices

Due to the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

This air pollution permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of final permit. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of final permit, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the

applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

All petitions filed under these rules shall contain:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
(c) A statement of when and how the petitioner received notice of the agency decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301 of the Florida Administrative Code.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida

_____ _____

Kelley M. Boatwright Effective Date
District Air Program Administrator
Southwest District

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Permit and the Appendices) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on the date indicated below to the persons listed below.

Mr. Mark J. Bailey, Global Tire Recycling of Sumter County, Inc. (Markatgtr@aol.com)
Ms. Patricia Johns, Global Tire Recycling of Sumter County, Inc. (Patatgtr@aol.com)
Mr. Lynn Robinson, P.E., Southern Environmental Services, Inc. (LRobinson@sesfla.com)

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

_____ _____

(Clerk) (Date)

## FACILITY AND PROJECT DESCRIPTION

### Existing Facility

This facility is a crumb rubber manufacturing plant that produces crumb rubber (from waste tires) ranging in size for 1/8″ to 3/8″ in diameter. The manufacturing process includes waste tire receiving, storage and staging areas; a rotary shear type tire shredder; two cracker mills in series with hooded air separator screens; three fine grind mills in parallel with hooded air separator screens; intermediate and final product storage bins; and final product bagging and bulk loadout bins.

The existing facility consists of the following emissions unit.

| Facility ID No.1190028 | |
|---|---|
| ID No. | Emission Unit Description |
| 001 | Crumb Rubber Milling |

***NOTE:*** *Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.*

## FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAPs).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility is a synthetic non-Title V source for the pollutant PM10. The restriction on the amount of material processed in this permit and the use of a baghouse control device will ensure that the facility's PM10 emissions will be below the threshold for a Title V source.

## PERMIT HISTORY/AFFECTED PERMITS

Replaces Permit No. 1190028-006-AO.

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection (Department), Southwest District's Air Resource Management Section prior to January 1, 2013; and the Florida Department of Environmental Protection, Central District's Air Resource Management Section on and after January 1, 2013.

   The Southwest District's mailing address and phone number is:

   Florida Department of Environmental Protection
   Southwest District Office
   Air Resource Management Section
   13051 North Telecom Parkway
   Temple Terrace, Florida 33637-0926
   Telephone: 813-632-7600

   The Central District's mailing address and phone number is:

   Florida Department of Environmental Protection
   Central District Office
   Air Resource Management Section
   3319 Maguire Blvd., Ste 232
   Orlando, FL 32803-3767
   Telephone: 407-897-4100

   All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority: Prior to January 1, 2013, all documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southwest District Office's Air Resource Management Section. On and after January 1, 2013, all documents related to compliance activities shall be submitted to the Central District Office's Air Resource Management Section. See above mailing addresses and phone numbers.

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;
   b. Appendix B. General Conditions;
   c. Appendix C. Common Conditions; and
   d. Appendix D. Common Testing Requirements.

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.
   [Rule 62-4.080, F.A.C.]

6. Modifications: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

7. Annual Operating Report: On or before **April 1** of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]

8. Operation Permit Renewal Application: A completed application for renewal of the operation permit shall be submitted to the Permitting Authority no later than 60 days prior to the expiration date of the operation permit. To properly apply for an operation permit, the applicant shall submit the following:

   a. the appropriate permit application form *(see current version of Rule 62-210.900, F.A.C. (Forms and Instructions), and/or FDEP Division of Air Resource Management website at: http://www.dep.state.fl.us/air/)*;

   b. the appropriate operation permit application fee from Rule 62-4.050(4)(a), F.A.C.;

   c. copies of the most recent compliance test reports required by Specific Condition No. A.10, if not previously submitted; (if applicable); and

   d. copies of the most recent month of records/logs specified in Specific Condition No. A.11.

   [Rules 62-4.030, 62-4.050, 62-4.070(3), 62-4.090, 62-210.300(2), and 62-210.900, F.A.C.]

## A. EU No. 001 - Crumb Rubber Milling

This section of the permit addresses the following emissions unit.

| ID No. | Emission Unit Description |
|---|---|
| 001 | Crumb Rubber Milling:<br><br>This emissions unit produces crumb rubber (from waste tires) ranging in size from 1/8″ to 3/8″ in diameter. The emissions unit includes waste tire receiving, storage and staging areas; a rotary shear type tire shredder; two cracker mills in series with hooded air separator screens; three fine grind mills in parallel with hooded air separator screens; intermediate and final product storage bins; and final product bagging and bulk loadout bins.<br><br>In this process, waste tires are passed through a shredder that reduces the tires to 2-4 inch chips. The chips are then passed through two cracker mills that further reduce the size of the chips and separates the fiber, metal tread and cord material from the rubber. The metal is removed with magnets and the fiber and other foreign materials are removed on air aspirated screening tables and gravity tables. The separation process results in debris free rubber 1/8 to 3/8 inch in diameter. Oversized rubber is fed back into the cracker mills. Fine grinding mills then reduce the rubber to mesh-sized crumb rubber product. Each fine grind mill is followed by an air aspirated screening operation. Oversize material is feed back to the fine grind mills. The final product is then conveyed via a screw elevator to a loadout hopper for bagging or bulk shipment to customers.<br><br>Particulate matter emissions from the air aspirated screening processes are vented through a common baghouse (MAC Environmental, Model 144WMCF338) before being discharged to the atmosphere. Because of the enclosure of the process and the nature of the raw material and the product, there are no significant fugitive emissions associated with this process. |

### PERFORMANCE RESTRICTIONS

A.1. Permitted Capacity: To limit particulate matter (PM) potential emissions, the facility shall not exceed the following limits:

| Description | Maximum Operation Limit |
|---|---|
| Fine Grind Milling Process (Maximum Production Rate) | 26,280 Tons per any consecutive 12-month period |
| Crumb Rubber Milling Process (Maximum Input Rate) | 8.0 Tons per hour* |

** Hourly rate is for emissions testing only. The permittee is not required to show compliance with rate during normal operation.*

*{Permitting note: See Appendix D, Condition 1, for Operation Rate during Testing requirements.}*

[Rule 62-210.200(PTE), F.A.C.; Construction Permit No. 1190028-005-AC]

A.2. Restricted Operation: The hours of operation are not limited (8760 hours per year).
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.; Construction Permit No. 1190028-005-AC]

**EMISSIONS STANDARDS**

A.3. Particulate Matter Emissions Standard: The baghouse is limited to the following maximum particulate matter emissions rate limit:

| **Description** | **Maximum PM Emission Rate** (Pounds Per Hour) |
|---|---|
| Baghouse (EU-001)<br>(Process input @ 8.0 tons/hour) | 13.0* |

** For lower process input rates, the emission rate limit shall be determined using the process weight table or equation contained in 62-296.320(4)(a)2., F.A.C.*

[Rule 62-296.320(4)(a)2., F.A.C.]

A.4. Visible Emissions Standard: Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because this source is equipped with a baghouse dust-control device, the Department, in accordance with the authority granted under Rule 62-297.620(4), F.A.C., hereby establishes a visible-emission limitation not to exceed an opacity of 5% in lieu of a particulate-matter stack test.
[Rules 62-297.620(4), F.A.C; Construction Permit No. 1190028-005-AC]

A.5. Unconfined Particulate Emissions: The permittee shall comply with the Unconfined Particulate Emissions requirements specified in Appendix C (Common Conditions) of this permit. In addition to the reasonable precautions included in Appendix C, the permittee shall also comply with the following:

a. All roads are paved.

b. The process is enclosed within a building.

c. Each air separator screen is equipped with a hood connected to a central baghouse to control emissions.

[Rule 62-296.320(4)(c), F.A.C.; Construction Permit No. 1190028-005-AC]

**TESTING REQUIREMENTS**

A.6. Compliance Tests: During each federal fiscal year (October 1st to September 30th), the emissions unit shall be tested to demonstrate compliance with the visible emissions (VE) standard.
[Rule 62-297.310, F.A.C.]

A.7. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. Additionally, testing of the baghouse shall be conducted while the crumb rubber milling process (the two

in-series cracker mills) is operated between 90 and 100% of their permitted input capacity (Specific Condition No. A.1.), if feasible. Permitted input capacity for the crumb rubber milling process is 8.0 tons/hour. Feed material must be processed through both the front half of the crumb rubber milling process (the two in-series cracker mills) and the back half of the process (the three in-parallel fine grinding mills) during the test.
[Rule 62-297.310, F.A.C.; Construction Permit No. 1190028-005-AC]

A.8. Test Method: Required tests shall be performed in accordance with the following reference method.

| Method(s) | Description of Method and Comments |
|---|---|
| 9 | Visual Determination of the Opacity of Emissions from Stationary Sources (The minimum period of observation for the compliance test shall be 30 minutes) |

The above method(s) are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.
[Rule 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

**NOTIFICATION REQUIREMENTS**

A.9. Test Notification: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification must include the following information: the date, time, and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and the telephone number of the person conducting the test.

{*Permitting Note: The notification should also include the relevant emission unit ID No(s)., test method(s) to be used, and pollutants to be tested.*}

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.]

**RECORDS AND REPORTS**

A.10. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. In addition to the requirements specified in Appendix D, the test report shall include the actual crumb rubber milling process input rate for the test period.
[Rule 62-297.310(8), F.A.C.; Construction Permit 1190028-005-AC]

A.11. Monthly Log: To demonstrate compliance with the "Fine Grind Milling" production limits of Specific Condition No. A.1., the permittee shall maintain the following monthly records:

a. Facility Name, Facility ID (1190028), Emission Unit ID (001), Month and Year.

b. The total "Fine Grind Milling" production * (in tons) for the month.

*c.* The total "Fine Grind Milling" production * (in tons) for the most recent consecutive 12-month period.

** Note: The total "Fine Grind Milling" production is the sum of the production for the three in-parallel fine grinding mills.*

[Rule 62-4.070(3), F.A.C.; Construction Permit No. 1190028-005-AC]

A.12. Records Retention: All monthly records shall be completed by the 15th day of the following month. All records required by this permit shall be maintained at the facility for at least three years, unless otherwise noted, and be made available to the Department for inspection upon request.
[Rules 62-4.070(3) and 62-4.160(14)(b), F.A.C.; Construction Permit No. 1190028-005-AC]