



# Department of Environmental Protection

# FILE

7109-462-686

Lawton Chiles  
Governor

Southeast District  
P.O. Box 15425  
West Palm Beach, Florida 33416

Virginia B. Wetherell  
Secretary

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

December 9, 1998

Mr. Michael Vardeman  
CSR Rinker Materials Corporation  
1200 N.W. 137th Avenue  
Miami, FL 33182

Miami-Dade County  
SW - CSRC  
Permit Files

Dear Mr. Vardeman:

This is to acknowledge receipt of your application, file number 146251-001-WT for a Waste Tire Processing Facility.

- [ ] This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) \_\_\_\_\_, Florida Statutes.
- [X] Your application for permit is complete as of November 23, 1998 and processing has begun. You are advised that the Department under Chapter 120, Florida Statutes, must take final action on your application within ninety (90) days unless the time is tolled by administrative hearing.
- [ ] Your application for permit is incomplete. Please provide the information listed on the attached sheet(s) promptly. Evaluation of your proposed project will be delayed until all requested information has been received.
- [ ] The additional information received on \_\_\_\_\_ was reviewed, however, the item(s) listed on the attached sheet(s) remain incomplete. Evaluation of your proposed project will continue to be delayed until we receive all requested information.
- [ ] At this time no permit is required for your project by the Solid Waste Section. Any modifications in your plans should be submitted for review, as changes may result in permits being required. This letter does not relieve you from the need to obtain any other permits (local, state or federal) which may be required.

If you have any questions, please contact me at telephone number (561)681-6669. When referring to this project, please use the file number indicated.

Sincerely,

Joseph Lurix, Engineer  
Solid Waste Section

cc: Steven C. Cullen, P.E.  
Jessie Carpenter, SW/TLH  
Lee Casey, MDCDSWM  
Paul Lasa, MDCDERM

Events Scheduled

75 of 90

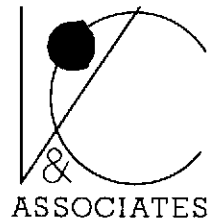
Site #: 0146251 Name: RINKER MATERIALS CORP WTP  
 Permit #: Type/Subtype: WT /02 Received: 23-SEP-1998  
 Project #: 001 Name: WASTE TIRE P.F. RENEWAL

> Receive Request: Done

Event	Begin Date	Prd	Due Date	Rmn	Status	End Date
Receive Request	23-SEP-1998	1	24-SEP-1998		Done	23-SEP-1998
Fee Verification	23-SEP-1998	2	25-SEP-1998		Sufficient	24-SEP-1998
Completeness Review	23-SEP-1998	30	23-OCT-1998		Incomplete	10-OCT-1998
RESET CLOCK	10-OCT-1998	1	11-OCT-1998		Done	10-OCT-1998
Awaiting Addition	10-OCT-1998	45	24-NOV-1998		Received	23-NOV-1998
Completeness Rev	23-NOV-1998	30	23-DEC-1998	14	<del>Pending</del> COMPLETED	

Count: \*6

<List><Replace>



Varley-Campbell  
& Associates, Inc.

Consulting  
Fire Protection Engineers.  
Miami-Chicago

November 19, 1998

Mr. Joseph Lurix  
Solid Waste Section  
Department of Environmental Protection  
Southeast District  
P. O. Box 15425  
West Palm Beach, Florida 33416

Dear Mr. Lurix,

Re: Rinker Material  
DEP File No. 146251-001-WT

RECEIVED

NOV 23 1998

DEPT OF ENV PROTECTION  
WEST PALM BEACH

As requested by Mr. Michael Vardeman of Rinker Materials Corporation, we are forwarding to you our signed and sealed report "Waste Tire Fire Safety Evaluation" covering the Cement Mill facility in Miami, Florida.

Sincerely,

Reed B. Varley, P.E.  
Principal  
Varley-Campbell & Associates, Inc.

cc: Michael Vardeman, Manager  
Materials Substitution  
Rinker Material Corporation

**WASTE TIRE FIRE SAFETY EVALUATION**  
**RINKER MATERIALS CORPORATION CEMENT MILL**  
**MIAMI, FLORIDA**

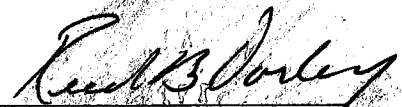
November 17, 1998

RECEIVED  
NOV 23 1998  
DEPT OF ENVIRONMENTAL  
WEST PALM BEACH

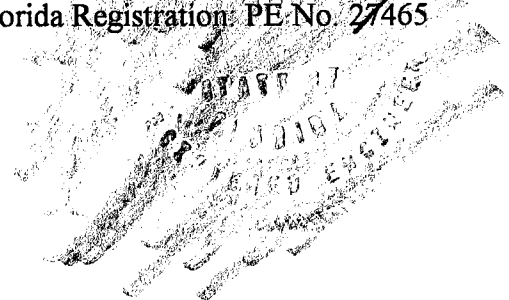
Prepared by:

**VARLEY-CAMPBELL & ASSOCIATES, INC.**

1110 Brickell Avenue, Suite 430  
Miami, Florida 33131



Reed B. Varley, P.E.  
Florida Registration: PE No. 27465



## **INTRODUCTION**

Fire Protection Engineering consulting services were requested by Mr. Michael Vardeman, Manager, Materials Substitution at the Rinker Materials Corporation Cement Mill in Miami, Florida. These services were for the site inspection, evaluation and preparation of a fire safety survey report as required by the State of Florida Department of Environmental Regulations, Chapter 62-711, Waste Tire Rule, Section 62-711.540 Storage Requirement, Paragraph (2)(k). This report is an update of the original report for this purpose which was prepared July 1993.

An inspection of the site was undertaken on November 4, 1998, by Reed B. Varley, P.E., Principal of Varley-Campbell & Associates, Inc., Florida Professional Registration 27465. Prior site visits of this site have been undertaken in support of the design of major facility improvements which are presently in progress. This report provides information obtained from these site visits and facility documentation, together with the conclusions reached from evaluation of this information.

## **SITE FEATURES AND TIRE RELATED OPERATIONS**

The Cement Mill is situated on a extensive open site with large concrete structures and noncombustible buildings generally spaced with 75 foot separations. Plant operation is continuous, 24 hours per day, 365 days per year, and operating areas are continuously attended.

Rubber tires are periodically used to supplement the coal firing of one of two large cement kilns. These steel kilns are approximately 11 feet in diameter, 425 feet long and an estimated 50 feet above the ground. The kilns rotate continuously at the rate of one revolution in 45 seconds. Means have been installed for the west kiln to insert into the leading segment of the kiln typically two tires in each revolution. Daily consumption when these operations are conducted, is approximately 4,000 tires.

During these operations, four trailers are located with two to three on each side of a platform leading to a vertical conveyor to kiln level. Sequencing to the conveyor and insertion of tires into the kiln are automatic. All other operations are manual: unloading of trailers, bringing tires to and loading them on the conveyor sequencer, unloading the tires and placing them for loading into the kiln. This tire handling facility is readily accessible from the north and south, with trailers positioned from approximately 15 feet east of the compressor building and 30 feet west of the west kiln.

All tires are received in a closed highway trailer usually 45 feet long, 8 feet wide and with the bottom of the 10 foot high trailer enclosure supported on chassis 3 ½ feet above the ground. The 45 foot long trailers contain 1,400 tires and when used, the 20 foot long trailers contain 750 tires.

Trailers are received at the trailer transfer area, a large area to the southwest, between the railroad siding and the material substitution building. With the maximum allowable on site storage limited to 30,000 tires, 21 or fewer 45 foot trailers are present at any one time. Typically, there will be four trailers at the kiln and 15 in the storage area.

A major plant expansion is now under construction. With its completion the tire disposal operation will be positioned to the west side of a new kiln facility. This operation will provide a means for dumping tires from each trailer directly into a retrieval system that automatically conveys tires to the kiln. Tires will be individually evaluated in terms of heat generating capacity, and will be delivered at intervals that provides a constant heating rate.

### **FIRE PROTECTION FACILITIES**

The fundamental fire protection resource for this facility is a fire protection water supply and distribution system serving fire hydrants. The eight inch piping distribution system is in a looped configuration with sectional valving to enhance reliability.

Mill industrial use water is also supplied through this main system for the reported maximum demand of about one thousand gallons per minute. This demand is met by a two 750 gallon per minute electric driven vertical turbine shallow well pumps. An emergency generator is available to power these pumps in the event of failure of the primary power. A 750-1000 gpm diesel driven deep well pump is dedicated to fire service. This fire pump is not a listed fire pump, and is operated manually, providing effective protection consistent with its use for manual firefighting operations.

Fire hydrants are strategically placed in principal mill areas, including the kiln operation. Generally, spacing is on 400 foot centers, typically providing a hydrant within 250 feet of buildings and structures in this area. A hydrant is located at about 75 feet of the trailers positioned at the kiln. However, the nearest hydrants to the trailer storage area are between 800 and 900 feet to the east.

Manual firefighting equipment is contained on one small fire truck and two wheeled hose reels, which are located in three positions around the site. Equipment at each of these locations includes 1-1/2 inch unlined hose, straight stream and spray nozzles, adapters, hydrant wrenches and portable extinguishers. There appears to be approximately 1200 to 1500 feet total of 1-1/2 inch hose.

Readily available for use in fire emergencies involving bulk materials are large front-end loaders and a yard horse to relocate tire trailers.

The major plant expansion will extend the looped eight inch water distribution system to provide hydrant protection coverage for these new areas. Hydrants will be located immediately north and south of the new tire processing area, on a roadway between the tire and kiln areas. A new diesel driven 1500 gallons per minute, 145 psi diesel driven fire pump will be installed taking suction from a 400000 gallon fire protection water supply tank. This water system has been designed to deliver from the hydrants a total flow of 3000 gallons per minute at a minimum 20 psi.

## **FIRE PROTECTION PROGRAM**

A strictly enforced Preventive Maintenance program provides for the following:

Inspection, servicing and flushing of hydrants; operation of water system sectional valves.

Checking of fire truck and hose cart equipment, pressure testing of hose.

Maintenance inspection of fire truck.

Check of weeds, trees and other combustible materials.

The Fire Fighting Plan identifies the fire fighting crew and fire reporting procedure. All employees are available and trained to fight fire, and because of the large utilization of coal fuel at this site, have experience in bulk material storage fire situations. Regular fire response drills are established and controlled through the preventive maintenance system.

A specific procedure has been developed for a tire fire in a trailer which includes; (1) summoning of Dade County Fire Department; (2) relocation of adjacent trailers from proximity of fire; (3) spreading sand to help contain the spread of oily waste and help control burning material outside of the trailer; and (4) provide support for firefighting activities.

## **EVALUATION**

Tire trailers are positioned to provide substantial separation from any fire hazards and ignition sources inherent in plant operations, and are located with access from opposite directions such as would allow effective emergency operations. Although shared with the industrial water system, the present fire protection water supply is expected to provide a 1500 gpm flow rate, and more if industrial usage is curtailed. With the improvements currently under construction, the fire flow is expected to increase to 3000 gallons per minute. Availability from multiple fire hydrants is excellent at the tire loading operation at the kiln. At the trailer storage yard, existing hydrant spacing would increase time required for firefighters to apply water to a fire, but hydrant water supply to this area would be compensated by the availability of a 10,000 gallon water tank truck and access to a canal within about 400 feet. New construction will also substantially improve hydrant availability to the tire trailer storage area.

Possibly applicable standards include NFPA No. 231D, Storage of Rubber Tires. This standard primarily deals with storage of tires within buildings, but also contains Appendix C, Guideline for Outdoor Storage of Scrap Tires. While more applicable to outside tire piles, to some extent the requirement may be considered for tires stored in trailers. The requirements of that standard for separation of yard storage from buildings and other exposures, control of weeds, grass and other combustibles within the storage area, and a topography favorable to the control of run-off, appear to be well cared for at this site.

An additional requirement calls for fire lanes to separate piles and provide access for effective firefighting. Reference is made to NFPA No. 80A for developing distances between "piles". The application of 80A could be used, considering trailers to be non-combustible structures having openings protected with 3/4-hour fire-rated construction. The implication from this guide is that 20 foot separation between trailer groups will be effective.

The DEP Rule 62-711 has similar requirements, asking for tire pile limits of 50 foot width, 10,000 square foot area, and height of 15 feet, surrounded with a 50 foot wide fire lane, for which a corresponding but less stringent criteria could be applied for trailer storage. The requirements of this rule for separation from open flame operations and good vehicle access, together with protection from tire fire liquid run-off, appear to have been met.

#### **TRAILER STORAGE CRITERION**

The following arrangement may be considered as providing fire protection for the trailer storage area:

Position trailers in groups of five full size trailers or the equivalent number of smaller trailers, to form a 50 by 50 foot arrangement. Separate these trailer groups from other trailer groups within the same size limit by twenty feet. Also, separate the trailer storage area by 50 feet from important buildings.



P 109 462 632

US Postal Service

**Receipt for Certified Mail**

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Send to	Michael Vardeman	
Street & Number	1200 N.W. 137 <sup>th</sup> Ave.	
Post Office, State, & ZIP Code	Miami, FL 33182	
Postage	\$	.32
Certified Fee		1.35
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Date, & Addressee's Address		1-10
<b>TOTAL Postage &amp; Fees</b>	<b>\$</b>	<b>2.77</b>

Postmark or Date

CSRC JL  
146251-001-WT

UNITED STATES POSTAL SERVICE

RJ/JL



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

● Print your name, address, and ZIP Code in this box ●

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
P. O. BOX 15425  
WEST PALM BEACH, FL 33416

RECEIVED

OCT 19 1998

DEPT OF ENV PROTECTION  
WEST PALM BEACH

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

CSW

[also wish to receive the following services (for an extra fee):

1.  Addressee's Address
2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
 Mr. Michael Vardeman  
 CSR Rinker Materials Corp  
 1200 N.W. 137th Avenue  
 Miami, Florida 33182

4a. Article Number  
 P109-462-638

- 4b. Service Type
- |   |                                    |
|---|------------------------------------|
| <input type="checkbox"/> Registered                     | <input type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail                   | <input type="checkbox"/> Insured   |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD       |

7. Date of Delivery  
 10/11

5. Received By: (Print Name)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)  
 X *[Signature]*

Thank you for using Return Receipt Service.



Department of  
Environmental Protection

FILE

P 109-462-632

Lawton Chiles  
Governor

Southeast District  
P.O. Box 15425  
West Palm Beach, Florida 33416

Virginia B. Wetherell  
Secretary

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

October 12, 1998

Mr. Michael Vardeman  
CSR Rinker Materials Corporation  
1200 N.W. 137th Avenue  
Miami, FL 33182

Miami-Dade County  
SW - CSRC  
Permit Files

Dear Mr. Vardeman:

This is to acknowledge receipt of your application, file number 146251-001-WT for a Waste Tire Processing Facility.

- [ ] This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) \_\_\_\_\_, Florida Statutes.
- [ ] Your application for permit is complete as of \_\_\_\_\_ and processing has begun. You are advised that the Department under Chapter 120, Florida Statutes, must take final action on your application within ninety (90) days unless the time is tolled by administrative hearing.
- [X] Your application for permit is incomplete. Please provide the information listed on the attached sheet(s) promptly. Evaluation of your proposed project will be delayed until all requested information has been received.
- [ ] The additional information received on \_\_\_\_\_ was reviewed, however, the item(s) listed on the attached sheet(s) remain incomplete. Evaluation of your proposed project will continue to be delayed until we receive all requested information.
- [ ] At this time no permit is required for your project by the Solid Waste Section. Any modifications in your plans should be submitted for review, as changes may result in permits being required. This letter does not relieve you from the need to obtain any other permits (local, state or federal) which may be required.

If you have any questions, please contact me at telephone number (561)681-6669. When referring to this project, please use the file number indicated.

Sincerely,

*Joseph Lurix*  
Joseph Lurix, Engineer  
Solid Waste Section

cc: Steven C. Cullen, P.E.  
Jessie Carpenter, SW/TLH  
Lee Casey, MDCDSWM  
Paul Lasa, MDCDERM

Mr. Michael Vardeman  
CSR Rinker Materials Corporation  
Page 2

DEP File No. 146251-001-WT

In order to complete review of your application pursuant to Section 403.087(4), Florida Statutes (F.S.), Sections 62-711.530, 62-711.540 and 62-4.070(1), Florida Administrative Code (F.A.C.), please provide the following information.

1. Please provide a recent fire safety survey in accordance with Rule 62-711.540(1)(d), F.A.C.

Note that all submittals must be signed and sealed by a professional engineer licensed in the state of Florida.



# Department of Environmental Protection

Lawton Chiles  
Governor

Southeast District  
P.O. Box 15425  
West Palm Beach, Florida 33416

Virginia B. Wetherell  
Secretary

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

October 12, 1998

Mr. Michael Vardeman  
CSR Rinker Materials Corporation  
1200 N.W. 137th Avenue  
Miami, FL 33182

Miami-Dade County  
SW - CSRC  
Permit Files

Dear Mr. Vardeman:

This is to acknowledge receipt of your application, file number 146251-001-WT for a Waste Tire Processing Facility.

- [ ] This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) \_\_\_\_\_, Florida Statutes.
- [ ] Your application for permit is complete as of \_\_\_\_\_ and processing has begun. You are advised that the Department under Chapter 120, Florida Statutes, must take final action on your application within ninety (90) days unless the time is tolled by administrative hearing.
- [X] Your application for permit is incomplete. Please provide the information listed on the attached sheet(s) promptly. Evaluation of your proposed project will be delayed until all requested information has been received.
- [ ] The additional information received on \_\_\_\_\_ was reviewed, however, the item(s) listed on the attached sheet(s) remain incomplete. Evaluation of your proposed project will continue to be delayed until we receive all requested information.
- [ ] At this time no permit is required for your project by the Solid Waste Section. Any modifications in your plans should be submitted for review, as changes may result in permits being required. This letter does not relieve you from the need to obtain any other permits (local, state or federal) which may be required.

If you have any questions, please contact me at telephone number (561)681-6669. When referring to this project, please use the file number indicated.

Sincerely,

*Joseph Lurix*  
Joseph Lurix, Engineer  
Solid Waste Section

cc: Steven C. Cullen, P.E.  
Jessie Carpenter, SW/TLH  
Lee Casey, MDCDSWM  
Paul Lasa, MCDERM

Mr. Michael Vardeman  
CSR Rinker Materials Corporation  
Page 2

DEP File No. 146251-001-WT

In order to complete review of your application pursuant to Section 403.087(4), Florida Statutes (F.S.), Sections 62-711.530, 62-711.540 and 62-4.070(1), Florida Administrative Code (F.A.C.), please provide the following information.

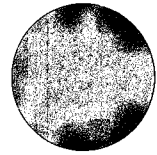
1. Please provide a recent fire safety survey in accordance with Rule 62-711.540(1)(d), F.A.C.

Note that all submittals must be signed and sealed by a professional engineer licensed in the state of Florida.



# Department of Environmental Protection

9/03  
See Ho



Lawton Chiles  
Governor

Southeast District  
P.O. Box 15425  
West Palm Beach, Florida 33416

Virginia B. Wetherell  
Secretary

## PERMIT DATA FORM

PROJECT SOURCE NAME Quiker Material Corp WTP

Type Code WT Subcode 02 Check If: GP Exempt

146251-001-WT

Correct Fee 1,250.00  
Amount Received 1,250.00  
Amount Refund \_\_\_\_\_

Permit Processor's Initial JM

Data Entry Operator's Initial MCH

Comments



CSR AMERICA, INC.  
P.O. BOX 24725  
WEST PALM BEACH, FL 33416-4725

20097970

62-28  
31T

PAY TO THE ORDER OF: FLORIDA DEPT ENVIRONMENTAL PROTECT  
SEND TO: CSR

SEPTEMBER 15, 1998

0972584

233290

EXACTLY \*\*\*\*\*1,250 DOLLARS AND 00 CENTS \*\*\*\*\*1,250.00

The First National Bank of Chicago-0710  
Chicago, Illinois  
Payable through FCC National Bank  
Wilmington, Delaware

TRACE NUMBER: 2000080742

Blair E. Stump



perMits | Events | Payment | Site | Facility | party | Reports | >

Permitting Application

SITE Permit

Site Name: RINKER MATERIALS CORP WTP

Site #: 0146251

County: DADE

Comments: RPAs: # Cases:

Project

Permit #: - - Project #: 001 Logged: 24-SEP-1998 CRA #:

Permit Office: SED (DISTRICT)

Agency Action: Pending

Project Name: WASTE TIRE P.F. RENEWAL

Desc: wtpf

Type/Sub/Des: WT /02 W/T PROCESSING FACILITY

COE #:

Received: 23-SEP-1998 Issued:

Expires:

OGC:

Fee: 1250.00 Fee Recd:

Dele:

Override: NONE

Related Party

Role: APPLICANT

Begin: 24-SEP-1998

End:

Name: VARDEMAN, MICHAEL

Company: CSR RINKER MATERIALS CORP

Addr: 1200 N.W. 137TH AVE

City: MIAMI

State: FL Zip: 33182-

Country:

Phone: 305-229-2955

Fax: 305-229-8015

Processors

Processor: HOEFERT\_L

N Active: 23-SEP-1998 Inactive:

The current data has been committed to the database.

Count: \*0

<Replace>

AREA: SED \_\_\_\_\_

Cash Receiving Application  
Collection Point Log Remittance

CRAF006A  
Tot: \_\_\_\_\_ \$1,250.00

-----+-----  
 SYS\$REMT: 286111 Type: CP Recvd Date: 23-SEP-1998 Status: RECEIVED  
 SYS\$RCPT: 233290 PNR: \_\_\_\_\_ Check #: 20097970 Amount: \_\_\_\_\_ 1,250.00  
 SSN/FEI#: \_\_\_\_\_ Name: CSR AMERICA, INC.  
 First: \_\_\_\_\_ Middle: \_\_\_\_\_ Title: \_\_\_\_\_ Suf: \_\_\_\_\_  
 Address1: \_\_\_\_\_ Short Comments:  
 Address2: P.O. BOX 24725 RINKER MATERIALS CORP WTP  
 City: WEST PALM BEACH ST: FL Zip: 33416-4725 Country: \_\_\_\_\_  
 -----+-----

-----> P A Y M E N T (S) <-----

Distr	CL	Object	Payment	Reference#	Applic/ Fund	S T A CO
SYS\$PAYT	Area..	Code/Description.....	Amount.....			
297525	SED	002207 WASTE_TIRE-PROC	\$1,250.00	146251-001	PA SWMTF	CO
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

-----+-----  
 COMMIT FREQUENTLY \_\_\_\_\_ \$1,250.00 Payment total  
 Press <TAB> to accept Collection Point or enter F&A.  
 Count: \*1 <Replace>

Events Scheduled

90 of 90

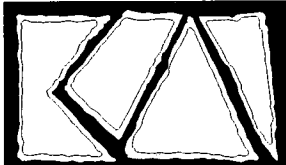
Site #: 0146251 Name: RINKER MATERIALS CORP WTP  
 Permit #: Type/Subtype: WT /02 Received: 23-SEP-1998  
 Project #: 001 Name: WASTE TIRE P.F. RENEWAL

> Completeness Review: Pending

Event	Begin Date	Prd	Due Date	Rmn	Status	End Date
Receive Request	23-SEP-1998	1	24-SEP-1998		Done	23-SEP-1998
Fee Verification	23-SEP-1998	2	25-SEP-1998		Sufficient	24-SEP-1998
<b>Completeness Review</b>	23-SEP-1998	30	23-OCT-1998	29	<b>Pending</b>	

Count: \*2

<List><Replace>



**KOOGLER & ASSOCIATES**  
**ENVIRONMENTAL SERVICES**

4014 NW THIRTEENTH STREET  
GAINESVILLE, FLORIDA 32609  
352/377-5822 ■ FAX/377-7158

September 21, 1998

Mr. Joseph Lurix  
Solid Waste Program  
FDEP Southeast District

**By Mail:**

P.O. Box 15425  
West Palm Beach, Florida 33416-5425

**By Overnight Service:**

400 North Congress Avenue  
West Palm Beach, Florida 33401

**SUBJECT:** Rinker Materials Corporation  
Renewal of Waste Tire Facility Permit No. WT13-234051

Dear Mr. Lurix:

Please find enclosed the renewal application for the referenced permit. A check for \$1250 is attached as the applicable processing fee.

If you have any questions, please contact me at (352) 377-5822, or Michael Vardeman at Rinker at (305) 229-2955.

Sincerely,

Steven C. Cullen, P.E.  
Koogler & Associates

copy to: Michael Vardeman – Rinker

MEMORANDUM

**DATE:** September 21, 1998  
**TO:** Michael Vardeman – CSR Rinker  
**FROM:** Steve Cullen -- Koogler & Associates *SC*  
**SUBJECT:** Waste Tire Processor Permit Renewal  
WT13-234051

REG  
SEP 23 1998  
DEPT. OF ENV. PROTEC

Enclosed please find two (2) copies of the application for renewal for the waste tire facility permit.

Please sign and date both copies where noted.

Please send one copy of the application, the cover letter, and the check, to:

Mr. Joseph Lurix  
Solid Waste Program  
FDEP Southeast District

**By Mail:** P.O. Box 15425  
West Palm Beach, Florida 33416-5425

**By Overnight Service:** 400 North Congress Avenue  
West Palm Beach, Florida 33401

The other copy of the application and the cover letter are for your files.

The renewal application should be submitted prior to October 1, 1998 so it will be processed by DEP instead of DERM.

Department of  
Environmental Protection  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #	62-711.900(6)
Form Title	Waste Tire Processing Facility Permit Application
Effective Date	February 28, 1994
DEP Application No.	_____
	(Filled in by DEP)

**Waste Tire Processing Facility Permit Application**

Permit No. WT13-234051 Renewal  Modification  Existing unpermitted facility  Proposed new facility

**Part I - General Information:**

**A. Applicant Information:**

1. Applicant Name: CSR Rinker Materials Corporation
2. Applicant Street Address 1200 NW 137th Avenue
3. City Miami County Dade Zip 33182
4. Applicant Mailing Address 1200 NW 137th Avenue
5. City Miami County Dade Zip 33182
6. Contact person Michael Vardeman Phone (305) 229-2955
7. Have any enforcement actions taken by the Department against the applicant relating to the operation of any solid waste management facility in this state? This includes any Complaint, Notice of Violation, or revocation of a permit or registration, as well as any Consent Order in which a violation of Department rules is admitted. It does not include a Warning Letter, Warning Notice, Notice of Noncompliance, or other similar document which does not constitute agency action. Yes \_\_\_\_\_ No X If yes, attach a history and description of the enforcement actions.

**B. Facility Information:**

1. Facility Name Miami Cement Plant
2. Facility Street Address (Main Entrance) 1200 NW 137th Avenue
3. City Miami County Dade Zip 33182
4. Facility Mailing Address 1200 NW 137th Avenue
5. City Miami State Florida Zip 33182
6. Contact Person Michael Vardeman Phone (305) 229-2955

**Facility Location Coordinates**

7. Section 34 Township 53 South Range 39 East
8. Latitude 25/46/48 Longitude 80/25/10
9. Anticipated date for starting construction NA and for completion of construction NA
10. Anticipated date for receipt of tires NA and for start of processing NA

FDEP SUBMITTAL COPY

**C. Land Owner Information** (if different from applicant):

- 1. Owner's name Same as applicant
- 2. Land owner's mailing address \_\_\_\_\_
- 3. City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_
- 4. Authorized Agent: \_\_\_\_\_ Agent's phone \_\_\_\_\_
- 5. Current lease expires \_\_\_\_\_

**D. Facility Operator Information** (if different from applicant):

- 1. Operator's name Same as applicant
- 2. Operator's mailing address \_\_\_\_\_
- 3. City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_
- 4. Contact person \_\_\_\_\_ Phone \_\_\_\_\_

**E. Preparer of Application:**

- 1. Name of person preparing application: Steven C. Cullen, PE
- 2. Mailing address 4014 NW 13th Street
- 3. City Gainesville State Florida Zip 32609
- 4. Phone (352) 377-5822
- 5. Affiliation with facility: Consultant

**Part II - Operations:**

**A. Facility type (check appropriate box):**

- Waste tire processing facility.
- Waste tire processing facility with on-site disposal of processed tires or processing residuals. See Attachment \_\_\_\_\_
- Waste tire processing facility with on-site consumption of waste tires or processing residuals. See attachment F
- Permitted solid waste management facility modification to allow waste tire site and processing.

**B. Type of processing facility (check as many as apply):**

- Shredder  Cutter  Chopper  Incinerator only  Incinerator with energy recovery  Pyrolysis
- Supplemental fuel user  Other, explain \_\_\_\_\_

**C. Indicate the maximum quantities of whole waste tires, processed waste tires, and processing residuals, expressed in tons, to be stored at the facility, in accordance with Rule 62-711.530(2), F.A.C.**

	Outdoor Storage (tons)	Outdoor Storage (sq. ft.)	Indoor Storage (tons)	Indoor Storage (Sq. ft.)	Total Storage (tons)
Whole waste tires:	<u>300</u>	<u>20,250</u>	_____	_____	<u>300</u>
Processed tires:	_____	_____	_____	_____	_____
Processing residuals:	_____	_____	_____	_____	_____
<b>TOTALS:</b>	<u>300</u>	<u>20,250</u>	_____	_____	<u>300</u>

D. For reporting quantity of tires in total tires will be weighed on site  weighed on site  weights will be calculated

E. Facilities that will not be disposing of processed tires or processing residual on the facility site must indicate the permitted solid waste management facility where processed tires or residuals will be disposed.

1. Name of facility NA

2. Street address \_\_\_\_\_

3. City \_\_\_\_\_ County \_\_\_\_\_ Zip \_\_\_\_\_

F. Facilities that will be delivering processed tires to consuming facilities must describe the existing or proposed markets for those processed tires.

NA  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part III - Attachments:**

**A. Facility design**

NOTE: All maps, plan sheets, drawings, isometrics, cross sections, or aerial photographs shall be legible; be signed and sealed by a registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow and use NGVD for all elevations.

1. A topographic or section map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility.
2. A plot plan of the facility on a scale of not less than one inch equals 200 feet. At a minimum, the plot plan shall include:
  - a. The facility design, including the location and size of all storage and processing areas for used tires, unprocessed waste tires, processed waste tires, an waste tire processing residuals;
  - b. All wetlands and water bodies within the facility or within 200 feet of any storage area;
  - c. Stormwater control measures, including ditches, dikes, and other structures;
  - d. Boundaries of the facility, legal boundaries of the land containing the facility, and any easements or rights of way that are within the facility or within 200 feet of any storage area;
  - e. Location, size, and depth of all wells within the facility or within 200 feet of any storage area;
  - f. All structures and buildings that are, or will be, constructed at the facility; include those used in storage and processing operations;
  - g. All areas used for loading and unloading;
  - h. All access roads and internal roads, including fire lanes;
  - i. Location of all fences, gates, and other access control measures; and
  - j. Location of all disposal areas within the facility.

**B. Facility operation.**

1. A description of the facility's operation, process and products including how waste tires will be received and stored.
2. A description of the equipment used for processing tires. This description shall include the make, model, and hourly capacity of each piece of equipment.
3. Description of the waste from the process, the amount of waste expected and how and where this waste will be disposed of.
4. Statement of the maximum daily throughput and the planned daily and annual throughput.
5. A description of how the operator will maintain compliance with each of the storage requirements of Rule 62-711.540, F.A.C.
6. A copy of the emergency preparedness manual for the facility with a statement of the on site and off site locations where that manual will be maintained.
7. A copy of the fire safety survey.
8. A description of how 75% of the annual accumulation of waste tires will be removed for disposal or recycling.



- C. Completed closing plan for the facility as required by Rule 62-711.700(2) and (3), F.A.C.
- D. Attach proof of financial responsibility as requirement by Rule 62-711.510(2) OR a calculation showing that financial assurance documents, currently on file with the Department, are sufficient to assure closing of the waste tire site as well as any other solid waste management facility at that location.
- E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility.
- F. If waste tires will be consumed at the facility, attach a description of the other environmental permits that the applicant has for this use, including, permit number, date of issue, and name of issuing agency.
- G. The permit fee as required in Rule 62-4, F.A.C.

**Part IV - Certification:**

**A. Applicant**

The undersigned applicant or authorized representative of CSR Rinker Materials Corporation is aware that statements made in this form and attached information are an application for a Waste Tire Processing Facility Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Department will be notified prior to the sale or legal transfer of the facility.

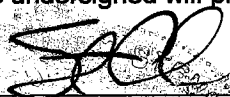
X   
Signature of Applicant or Authorized Agent

Michael Vardeman  
Cement Division Enviro. Manager  
Name and Title

9/22/98  
Date

**B. Professional Engineer registered in Florida.**

This is to certify that the engineering features of this waste tire processing facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions for proper maintenance and operation of the facility.

  
Signature  
**Steven C. Cullen, PE**  
**Project Engineer**  
Name and Title  
45188  
Florida Registration Number

4014 NW 13th Street  
Mailing Address  
Gainesville, Florida 32609  
City, State, Zip  
(352) 377-5822  
Telephone number

9/21/98  
Date

(please affix seal)

Mail completed form to appropriate district office.

## Waste Tire Processing Facility Permit Application

### Part III – Attachments:

#### A. Facility Design

1. A topographic or section map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility.  
**See Attachment 1.**
2. A plot plan of the facility on a scale of not less than one inch equals 200 feet.  
**See Attachment 2.**

#### B. Facility Operation

1. A description of the facility's operation, process and products including how waste tires will be received and stored.

**The facility produces Portland cement in high-temperature rotary kilns. Waste tires are used as supplemental fuel. Waste tires are generally received and stored in closed vans until use.**

2. A description of the equipment used for processing tires.

**The tires are not processed – the cement kilns use whole tires as supplemental fuel.**

3. Description of the waste from the process, the amount of waste expected and how and where this waste will be disposed of.

**No wastes are generated from this process – the organic components of the waste tires are combusted, adding heat value (Btu's) to the process. The inorganic components are incorporated into the kiln product (clinker).**

4. Statement of the maximum daily throughput and the planned daily and annual throughput.

<b>Maximum daily throughput (existing kilns):</b>	<b>84 tons/day</b>
<b>Maximum daily throughput (new kiln):</b>	<b>140 tons/day</b>
<b>Planned daily throughput:</b>	<b>87 tons/day</b>
<b>Planned annual throughput:</b>	<b>30,000 tons</b>

5. A description of how the operator will maintain compliance with each of the storage requirements of Rule 62-711.540, FAC.  
**The tires will be received and stored in closed vans until use.**

6. A copy of the emergency preparedness manual for the facility with a statement of the on site and off site locations where that manual will be maintained.  
**Waiver requested – manual on file with Department.**
7. A copy of the fire safety survey.  
**Waiver requested.**
8. A description of how 75% of the annual accumulation of waste tires will be removed for disposal or recycling.  
**On hand inventory will be consistent with usage.**

C. Completed closing plan for the facility.  
**Waiver requested – on file with Department.**

D. Attach proof of financial responsibility or a calculation showing that financial assurance documents, currently on file with the Department, are sufficient to assure closing of the waste tire site.  
**See Attachment 3.**

E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility.  
**Not Applicable – Applicant is land owner.**

F. If waste tires will be consumed at the facility, attach a description of the other environmental permits that the applicant has for this use, including permit number, date of issue, and name of issuing agency.

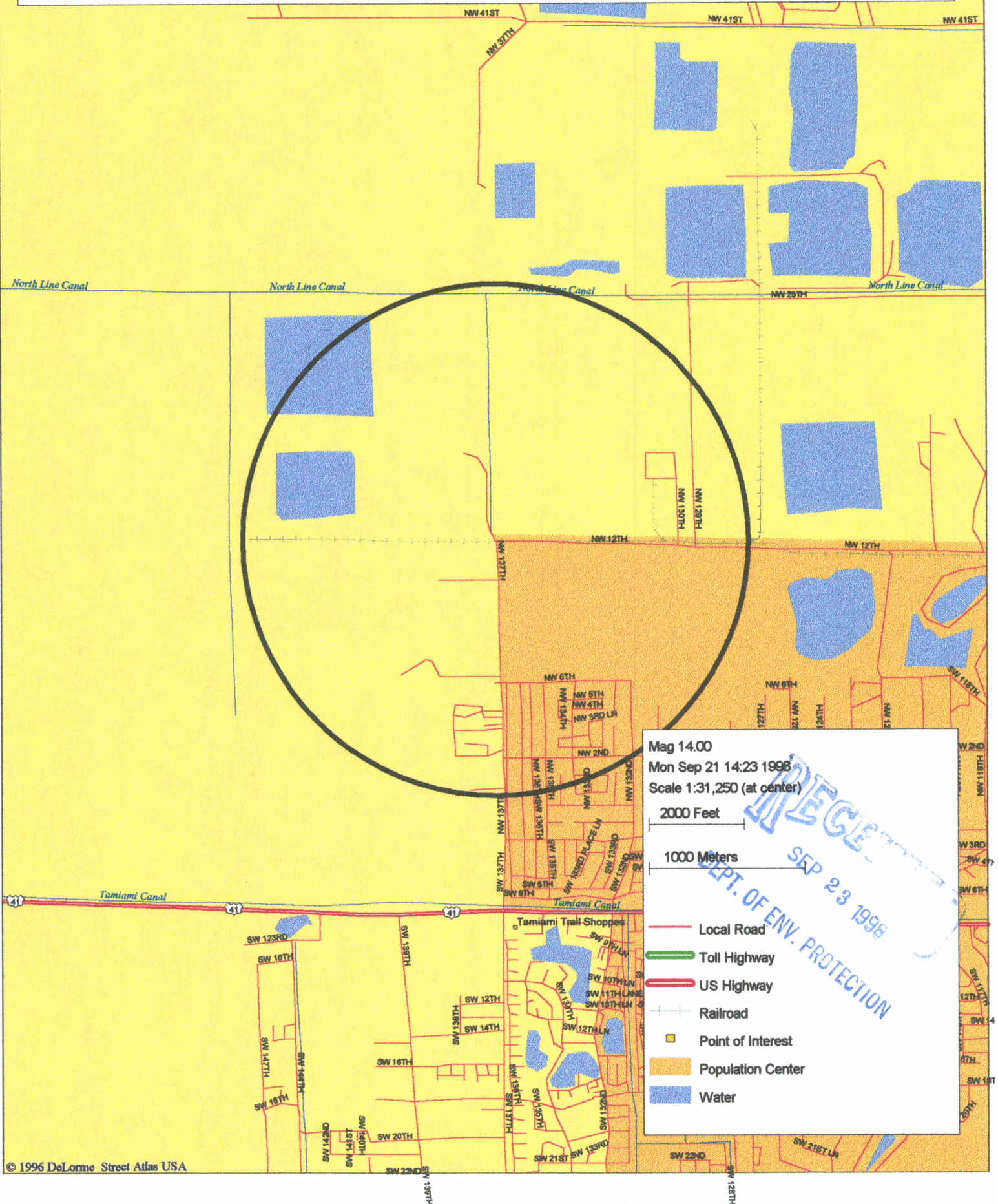
**Air Permit (existing kilns): Permit No. AO13-233208  
Issued by FDEP -- July 29, 1993**

**Air Permit (new kiln): Permit No. 0250014-002-AC  
Issued by FDEP – September 11, 1997**

G. The permit fee as required by Rule 62-4, FAC.  
**The applicable processing fee is \$1250 – See Attached.**



# Land Use Map







**ENVIRONMENTAL SERVICES**

4014 NW THIRTEENTH STREET  
GAINESVILLE, FLORIDA 32609  
352/377-5822 • FAX/377-7158

April 8, 1998

Mr. Joseph Lurix  
Solid Waste Program  
FDEP Southeast District  
P.O. Box 15425  
West Palm Beach, Florida 33416-5425

**SUBJECT:** Rinker Materials Corporation  
Estimate of Waste Tire Closure Costs

Dear Mr. Lurix:

As requested, a cost estimate for the closing of the Rinker Materials Corporation facility is shown below. This passenger tire estimate is based on the total transportation/disposal costs quoted by Florida Tire Recycling, Inc. (see attached). This estimate is for the transportation and disposal of tires from the RMC facility, and is based on a follow-up phone call to Florida Tire Recycling, Inc., where the \$1.00/tire removal cost was broken into the following amounts:

Disposal	=	\$65.00/ton
Transportation	=	\$35.00/ton

The transportation will be by vans owned and operated by Florida Tire Recycling, Inc.

There will be no more than (10) days supply of passenger tires maintained on the RMC site; each day of supply is equivalent to 3,000 tires.

**Volume & Weight Estimates**

**Passenger Tires**

3,000 per day x 10 days = 30,000 tires

Weight at 100 tires/ton = 300 tons

**Closure Costs**

**Passenger Tires**

Disposal: 300 tons @ \$65.00/ton = \$19,500.00

Transportation: 300 tons @ \$35.00/ton = \$10,500.00

**Total = \$30,000.00**

Mr. Joseph Lurix  
April 8, 1998  
Page 2 of 2

Alternative Calculation

$$30,000 \text{ tires} \times \$1.00/\text{tire} = \$30,000.00$$

If you have any questions, please contact me at (352) 377-5822, or Michael Vardeman at Rinker at (305) 229-2955.

Sincerely,



Steven C. Cullen, P.E. [Seal -- Florida P.E. 45188]  
Koogler & Associates

copy to: Michael Vardeman – Rinker

