

4014 NW 13th STREET GAINESVILLE, FL 32609-1923 352/377-5822 • FAX/377-7158

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection SW District - Solid Waste Management 13051 N. Telecom Pky. Temple Terrace, FL 33637

Dept. of Protection Protection of Protection and Sea of Manual Protection of the Sea of Re: Tire Permit Application (Former Permit No. 22787-002-WT)

CEMEX Construction Materials Florida, LLC

Brooksville South Cement Plant Brooksville, Hernando County, FL

Dear Ms. Pelz:

On behalf of CEMEX Construction Materials, LLC (CEMEX) Koogler and Associates, Inc. (Koogler) is submitting the enclosed application for the existing Tire Processing Facility at the Brooksville South Cement Plant, per 62-711 F.A.C. Enclosed is a check for \$1,250 for the permit application fee.

From September 2005 to-date, the Tire Facility of the Brooksville South Cement Plant operations has been permitted under Site Certification PA 82-17P. Prior to September 2005, the Tire Facility was permitted independently under 22787-002-WT.

Thank you for your assistance. If you have any questions, please contact me at 352-377-5822 or mlee@kooglerassociates.com.

Best regards,

Maxwell R. Lee, PhD., PE

KOOGLER AND ASSOCIATES, INC.

MRL/tlr

Enclosure

Cc: George Townsend - CEMEX



Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Reset Form

Print Form

DEP Form # 62-701.900(23)

Form Title: Waste Tire Processing Facility Permit Application

Effective Date: January 6, 2010 Incorporated in Rule 62-711.530(6)

Waste Tire Processing Facility Permit Application

Perr	nit No.	Former No. 2278	7-002-WT							
Renewal □ Modification □ Ex		sting unpermitted facility		□ Pro	posed	new facil	ity 🗆	7		
Part	:I-Gener	al Information:								
Α.	Applica	ant Information:						So		م سر
1.	Applica	nt Name: <u>CEME</u>	X Construction I	Materials FI	orida LLC			EL.	, , , , , , , , , , , , , , , , , , ,	<u> </u>
2.	Applica	nt Street Address:	10311 Cemer	nt Plant Roa	ad	·	······································	4	<u>.</u>	26
3.	City: E	Brooksville		_County: <u>F</u>	lernando		_Zip:	34601		
4.	Applica	nt Mailing Address	Same as abo	ove					<u> </u>	· · · · · · · · · · · · · · · · · · ·
5.	City: _			County:			Zip:		S	011
6.	Contact	person: George	e Townsend Pho	one: (352)	799-7881	FE	ID No:	26-306	8068	À :
В.	 7. Have any enforcement actions been 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.									
	_		lle South Cemer	nt Plant						
	Facility Name: Brooksville South Cement Plant Facility Street Address (Main Entrance): 10311 Cement Plant Road									
		Brooksville						34601		
4.	4. Facility Mailing Address: Same as above									
5.	City: _	_		State: _			Zip:	-		
6.	Contac	t Person: <u>Geor</u> g								
7.	Facility	Location Coordina	tes:							
	Section	: <u>8</u> .		Township	: <u>22 South</u>	<u> </u>	Range:	19 Eas	t	-,
	Latitude	e: <u>28 34' 54.65"</u>	(site entrance)	L	.ongitude: 8	2 26' 56.33" (s	ite enti	rance)		
8.	Anticipa	ated date for startin	g construction	N/A	and f	for completion of	constr	uction	N/A	4
9.	Anticipa	ated date for receip	ot of tires N/A	N-Existing C	p and f	for start of proce	ssing	N/A-Ex	isting C)p
	Mail completed form to									

Mail completed form to appropriate district office listed below

DEP Form # 62-701.900(23)

Form Title: Waste Tire Processing Facility Permit Application

Effective Date: January 6, 2010 Incorporated in Rule 62-711.530(6)

	Land Owner Information (if different from applicant): Owner's name: Same as applicant							
2:	Land owner's mailing	ng address:						
3.	City:		State:		Zip:			
4.	Authorized Agent:			Agent's phone	()			
5.	Current lease expir	es:		10 mm m	<u> </u>			
	Facility Operator Information (if different from applicant): Operator's name: Same as applicant							
2.	Operator's mailing	address:			o and a second			
3.	City:		State:		Zip:			
4.	Contact person:	_		Phone: ()			
E. 1.	Preparer of Applic Name of person pre	cation: eparing application	Maxwell R. L	ee, Ph.D., P.E., K	oogler and Associ	ates, Inc.		
2.	Mailing address:	4014 NW 13th St	reet					
3.	City: Gainesville		State: <u>FL</u>		Zip: <u>3</u>	2609		
4.	Phone: (352)377	<u>-5822</u>						
5.	Affiliation with facili	ty: Project Eng	gineer, Environme	ental Consultant				
	t II-Operations: Facility type (checl	cappropriate box):					
	Waste tire processir	ng facility.						
	Waste tire processing	ng facility with on -s	ite disposal of proce	essed tires or proce	ssing residuals.			
	Waste tire processing	ng facility with on -s	ite consumption of	waste tires or proce	ssing residuals.	!		
	Permitted solid was	te management fac	cility modification to	allow wa ste tire site	e and processing.			
В.	Type of processing	្យ facility (check as	many as apply):					
	□Shredder □C □Pyrolysis ■S	Cutter □Cho Supplemental fuel u			ator with energy rec	overy		
	Storage: Indicate the expressed in tons, to					essing residuals,		
		Outdoor Storage(tons)	Outdoor Storage (sq.ft)	Indoor Storage (tons)	Indoor Storage (sq.ft)	Total Storage (tons)⊧		
٧	/hole waste tires:	300	130,680			300		
Р	rocessed tires:							
Р	rocessing residuals:							
т	OTALS:	300	130 680			300		

DEP Form # 62-701.900(23)

Form Title: Waste Tire Processing Facility Permit Application

Effective Date: January 6, 2010 Incorporated in Rule 62-711.530(6)

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, and 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;
 - 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 -
- 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.

C.

CERTIFICATION BY APPLICANT AND ENGIN	NEER OR PUBLIC OFFICER				
Applicant:					
The undersigned applicant or authorized representations	entative of CEMEX Construction Materials Florida LLC				
is aware that statements made in this form and attached information are an application for a <u>alternative fuels</u>					
information in this application is true, correct and undersigned agrees to comply with the provision	da Department of Environmental Protection and certifies that the discomplete to the best of his/her knowledge and belief. Further, the his of Chapter 403, Florida Statutes, and all rules and regulations of t is not transferable, and the Department will be notified prior to the				
	10311 Cement Plant Road				
Signature of Applicant or Agent	Mailing Address				
emes Daniel علو	Brooksville, FL				
Name and Title (please type)	City, State, Zip Code				
jdaniel@cemexusa.com	(352) 799-7881				
E-Mail address (if available)	Telephone Number				
Florida Statutes): This is to certify that the engineering features of and found to conform to engineering principles a when properly maintained and operated, will conform to engineering principles and operated.	Public Officer if authorized under Sections 403.707 and 403.7075, It this waste processing facility have been designed/examined by me applicable to such facilities. In my professional judgment, this facility, mply with all applicable statutes of the State of Florida and rules of ed will provide the applicant with a set of instructions of proper				
maintenance and operation of the faulity.					
14/1					
Signature	4014 NW 13th Street Mailing Address				
Signature	Mailing Address				
Maxwell R. Lee, Ph.D., P.E.	Gainesville, FL 32609				
Name and Title (please type)	City, State, Zip Code				
	mlee@kooglerassociates.com E-Mail address (if available)				
58091	(352) 377-5822				
Florida Registration Number	Telephone Number				
(please affix seal).	9/11/12				
	Date				

1.

2.

APPLICATION INFORMATION

Part III - Attachments

A. Facility Design

- 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 Figure 1 - Hernando County Property Appraiser Parcel Map and Figure 2 - USGS Topographic Map provided in Attachment 1.
- 2) A plot plan of the facility on a scale of not less than one inch equals 200 feet. See Figure 3 Aerial, Figure 4 Site Layout and Figure 5 Tire Trailer Staging Area in Attachment 1.
- B. Facility Operation

For sub-items 1 through 5 & 8: A Facility Operations Plan is provided in Attachment 2.

Item 6. A copy of the emergency preparedness manual for the facility has not changed since the original submittal. It is currently located at:

Brooksville South Cement Plant - Environmental Office CEMEX Construction Materials Florida, LLC 10311 Cement Plant Road Brooksville, FL 34601

- Item 7. A copy of the latest fire safety survey is provided in Attachment 3.
- C. Completed closing plan for the facility as required by Rule 62-711.700(2) and (3), FAC. A Closure Plan is provided in Attachment 4.
- D. Attach proof of financial responsibility as requirement by Rule 62-711.500(3) OR 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. See Closure Plan, Attachment 4 for the closing cost estimate and proposed financial assurance. Upon approval of the closing costs estimate, CEMEX will provide the required financial mechanism.
- E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility. N/A. The applicant is the 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,



CEMEX – Brooksville South Cement Plant Tire Processing Permit Application

date of issue, and name of issuing agency. See Other Environmental Permits provided in Attachment 5.

G. The permit fee as required in Rule 62-4, FAC. The applicable permit fee is \$1,250 and a check for that amount is enclosed.



- 1. Site Figures
- 2. Facility Operation Plan
- 3. Fire Safety Survey
- 4. Closure Plan
- 5. List of Other Permits

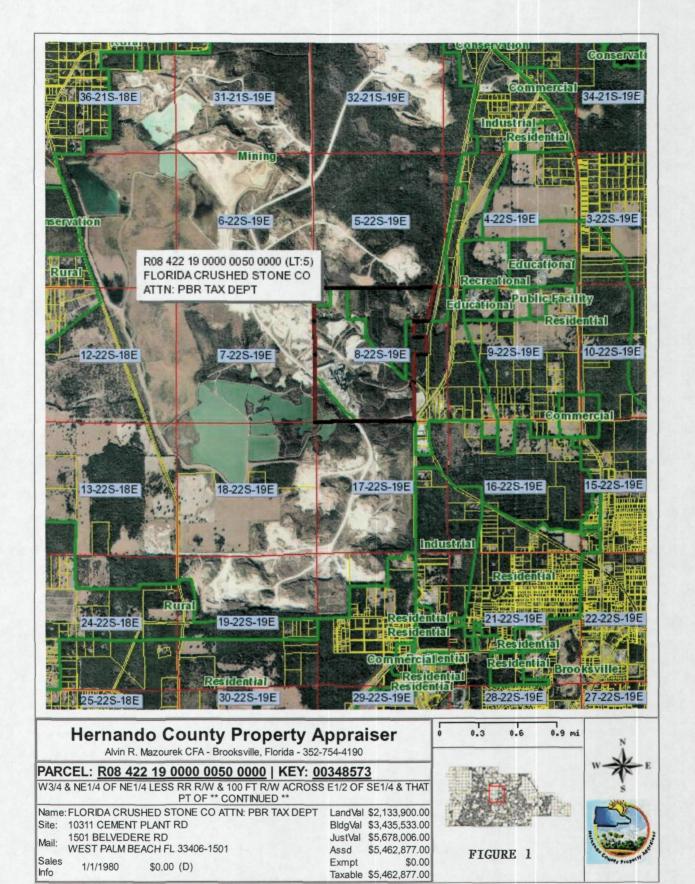
ATTACHMENTS



S-TH F-GURES



1



This information was derived from data which was compiled by the Hernando County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by any one as a determination of the market value, ownership, or zoning of the property. Zoning information should be obtained from the Hernando County Development Department. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

CAMA updated: 8/17/2012 | GIS updated: 8/17/2012 | © Copyright 2003 All Rights Reserved - Hernando County Property Appraiser

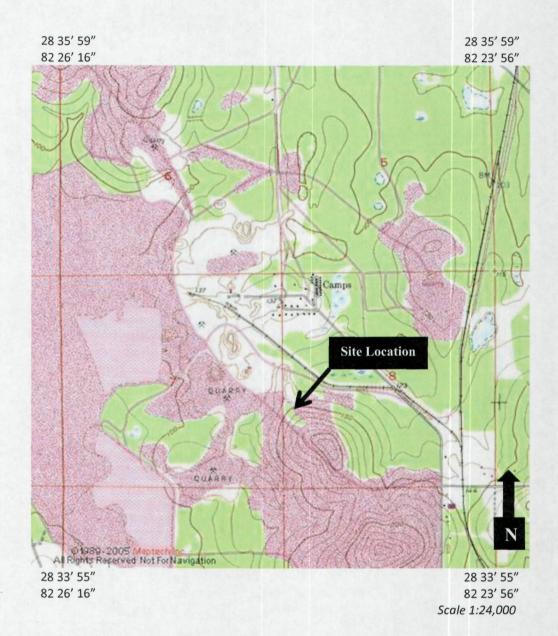
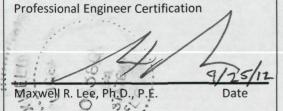


Figure 2
CEMEX Brooksville South Cement Plant
Tire Facility (62-711 F.A.C.)
Brooksville, Hernando County, Florida





Scale 1" = 500'

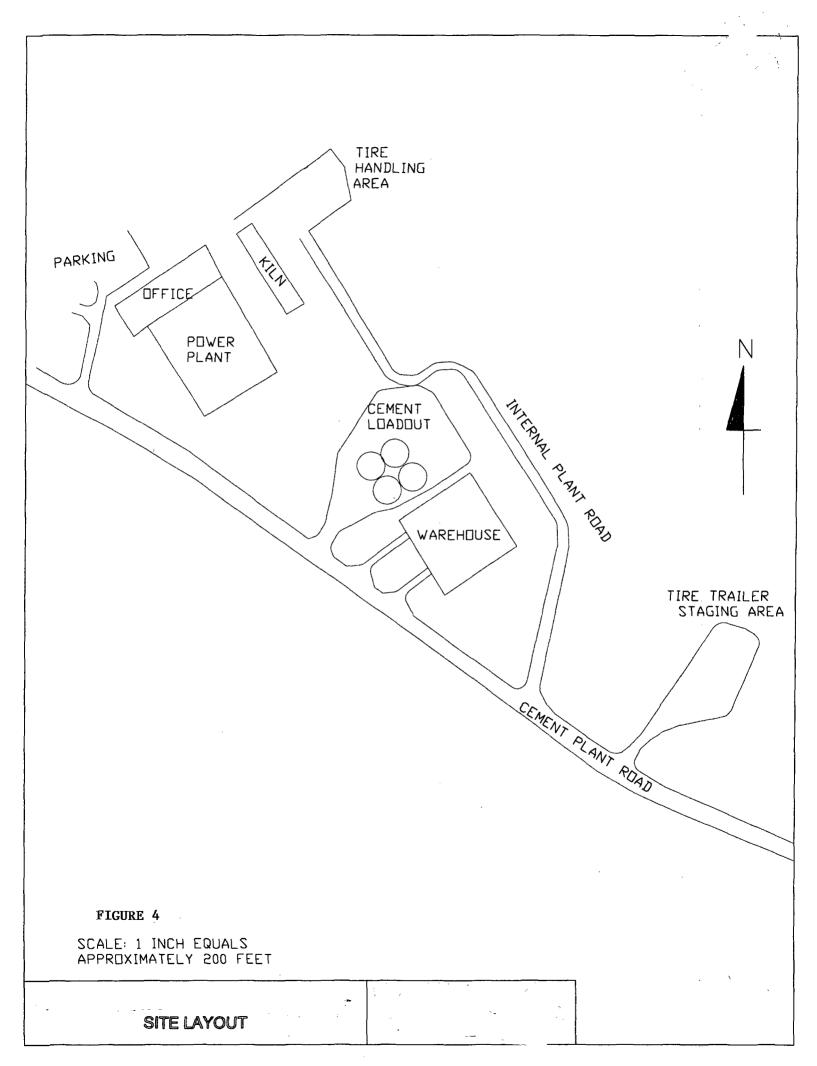
Aerial from Google earth Image date 1/26/2011

Drawing No. 263-12-12-3

Figure 3
CEMEX Brooksville South Cement
Plant
Tire Facility (62-711 F.A.C.)
Brooksville, Hernando County, FL

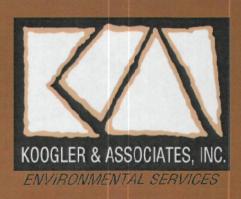


P.E. No. 58091



2

OPERA PLAN



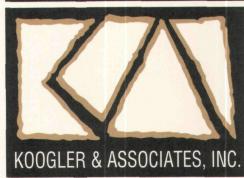
COMPEHENSIVE OPERATIONS PLAN

Tire Facility (62-711 F.A.C.)

CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC

Brooksville South Plant 10311 Cement Plant Road Brooksville, Hernando County Florida

Plan Date: September 20, 2012



ENVIRONMENTAL SERVICES

4014 NW 13th STREET GAINESVILLE, FL 32609-1923 352/377-5822 FAX/377-7158

COMPREHENSIVE OPERATIONS PLAN

Tire Facility (62-711 F.A.C.)

CEMEX Construction Materials Florida, LLC
Brooksville South Plant
10311 Cement Plant Road
Brooksville, Hernando County, Florida

Plan Date: September 20, 2012

Koogler and Associates, Inc. 4014 N.W. 13th Street Gainesville, Florida 33609-1923 (352) 377-5822 Dept. of Environmental Protection Protection

307-12-12



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1.0 FACILITY INFORMATION

Facility Name: CEMEX Brooksville South Tire Facility

Facility Operator/Owner: CEMEX Construction Materials Florida, LLC

Facility Address: 10311 Cement Plant Road

Brooksville, Florida 34605-1508

Facility Telephone: 352-799-7881

Facility Location: Section 8, Township 22 South, Range 19 East

Latitude: 28° 35' 00", Longitude: 82° 25' 45"

Facility Contact: George Townsend, Environmental Manager

352-799-7881

gtownsend@cemexusa.com

Authorized Representative: Jim Daniel, Plant Manager

352-799-7881

2.0 FACILTY DESCRIPTION

The CEMEX Brooksville South Cement Plant operations include a tire processing facility (Facility) with on-site consumption of tires. The maximum quantity of tires to be stored at the facility is 300 tons. The maximum daily throughput is 100 tons/day. There is no waste from the combustion of whole tires as a fuel/ingredient in the cement manufacturing process.

3.0 TIRE RECEIVING

Access to the facility is controlled through the use of plant personnel on-site 24 hours per day, 7 days per week and by the use of surveillance cameras, fences,



and natural barriers. All vehicles are logged in and out.

Tires are only received during normal operation hours. A schedule of hours for receiving waste tires is posted at the guard house at the entrance to the facility. An attendant is present to oversee the receipt and unloading of tires. All incoming suppliers are checked for current tire collector permit decals and then directed to the scale house. Suppliers without valid tire collector permit decals are accepted; however, the vehicle license plates are noted in the daily log and reported to Florida Department of Environmental Protection (Department) per 62-711.539(3)b). Tires are not accepted from the public. The operator of the site maintains records of the quantity of tires received and stored at the site and removed from the site.

Records of the daily tonnages received and combusted are reviewed weekly to ensure that the facility does not exceed the allowable storage quantity. Hours of operation and/or tire acceptance vary as necessary to assure conformity with 62.711.530(2).

Incoming tires are weighed at the scale house. Drivers are then directed to either the tire trailer staging area or the tire handling area for trailer drop-off or to the tire handling area for off-loading. All tires are off-loaded as directed by the on-site personnel.



4.0 TIRE STORAGE

4.1 Tire Storage Description

Tires are stored in trailers and are not unloaded unless they are expected to be used within 48 hours. Tires are stored at two locations at the site as shown on Figures 3, 4 and 5 in Attachment 1 of the permit application.

- 1) Tire trailer staging area- tires are stored in enclosed trailers.
- 2) Tire handling area –tires are staged in enclosed trailers or on a concrete slab for input to the kiln.

The total amount of tires to be stored at the site at any one time is 300 tons. Tires are typically received and stored in box trailers, each with an approximate capacity of 12 tons, however, the load sizes and trailer capacities may vary. Utilization of the storage capacity at the site may be as follows:

- 300 tons ÷ 12 tons/trailer = 25 trailers; or
- 150 tons (12 trailers) and 150 tons on concrete slab and/or ground;
 or
- Any combination of trailer storage, slab storage, and ground storage not to exceed 300 tons total facility-wide.

Market conditions will dictate the quantity of tires received and used. Through recordkeeping, CEMEX will ensure that the total storage of tires at the Facility does not exceed 300 tons at any given time. This amount is more limiting than allowed by Rule 62-711.530(2)(a) F.A.C., which allows the amount of tires that the



equipment is capable of combusting over a thirty day period. The amount of tires practicably capable of combusting at the Facility (Kilns 1 and 2) is as follows:

6 tons/hour x 24 hours/day x 30 days = 4,320 tons of waste tires.

Therefore, the 300 ton maximum storage is less than the 4,320 tons allowed by Rule 62-711.530(2)(a) F.A.C.

4.2 Public Health and Welfare

The Facility provides control of mosquitos and rodents as necessary to protect the public health and welfare. When required, mosquitos are controlled by fogging with an approved insecticide and rodents are controlled by utilizing appropriate traps.

4.3 Drainage

Tires are temporarily staged on a concrete slab typically no more than 2 to 3 days.

The tire storage and handling areas all drain to the perimeter ditch (see Figure 3).

5.0 TIRE PROCESSING

The facility is defined as a tire processing facility by Rule 62-701.200(125) F.A.C., because tires are consumed on site as fuel for the cement kiln.



5.1 Consumption Process

Tires are unloaded from trailers onto a platform at the tire handling area and then loaded onto the feed conveyor which transports the tires to the kiln inlet. A scale is located at the tire handling area to accurately supply the kiln with the necessary waste tire fuel quantity. Rejected tires are loaded into a trailer for disposal by the tire vendor.

5.2 Residuals

Since tire processing is not conducted at the site, there are no residuals from processing. CEMEX contracts with tire generators for whole tires, and retains the right of refusal for any tires that are not suitable for combustion in the cement kiln. Tire generators occasionally include unsuitable tire material with whole tires such as:

- "Gator tails"
- Processed tires
- · Tires with rims
- Oversized tires
- Inner tubes

Any material other than whole tires suitable for combustion in the kiln are loaded back into the trailer and returned to the generator. When possible, these items are loaded back into the same trailer they were delivered in. Each trailer is logged into



the computer system. This practice allows for tracking or scrap items and other unsuitable material for returning to the appropriated generator. Rejected material will not be stockpiled at the Facility.

6.0 EMERGENCY PREPAREDNESS MANUAL

CEMEX has incorporated emergency preparedness into this Comprehensive Operations Plan (Plan) and a copy of this Plan is kept at the Facility. This Plan is reviewed at least once a year and updated upon changes in operations or procedures at the Facility. A copy of this Plan is also kept at an off-site location designated by CEMEX.

6.1 Communications

Communications equipment is maintained at the Facility to assure that the operator can contact authorities in case of a fire or other emergency. The Facility has a telephone available in the event of an emergency and the kiln feed operators have radio contact with the cement plant control room and Facility security personnel. The kiln feed operator will be familiar with this Plan and will review the various emergency situations and procedures with his crew at regularly scheduled safety meetings.

The operator shall immediately notify the Department in the event of a fire or other emergency, which poses a threat to the public health or the environment. Within two weeks of such an emergency, the operator shall submit to the Department a



written report on the emergency. This report shall describe the origins of the emergency, the actions that were taken, the results of actions taken, and an analysis of the effectiveness of the actions taken.

6.2 Fire

In the event of a fire at the Facility, the following procedures will be followed:

- > Determination of the type of material on fire.
- > Put out the fire if possible with an appropriate fire extinguisher.
- Notify the local fire department by dialing 911. Inform dispatcher of the type and quantity of material on fire.
- Secure the area. Contact the guard house and stop all inbound traffic, except for emergency vehicles. Keep all roadways and fire lanes clear and unobstructed.
- > Disconnect all sources of electricity not necessary for firefighting activities.
- ➤ Isolate non-burning material from the fire. This may be achieved by moving tire trailers that are not burning to a location a minimum of 200 feet away from burning material. In the event that moving a trailer is unsafe, an on-site water truck will be used to prevent ignition.
- If the fire is within a stockpile or trailer, mobile equipment will be used to move the unburned tires away from burning material. Water is only to be used on tires or other material that is not burning.
- Maintain a stockpile (approximately 60 cubic yards) of low permeability material such as clay, down gradient of the tire handling area. In the event of a fire in or around the tire handling area or tire trailer staging area, this material shall be moved by front-end loader and placed down gradient of the fire in a windrow with the ends turned toward the pile and diverging away from the pile. The main section of the windrow shall run perpendicular to the grade from one end section to the other. The ends shall be 45 degrees from the grade and the main section of the windrow. Any oily runoff, spent fire fighting water, or other liquids shall be contained and absorbed by this material. The resulting material shall then be properly disposed of in a



manner consistent with its final designation, i.e., solid waste, hazardous waste, etc. This determination shall be made by the Facility's Environmental Manager. Prior to disposal, the material shall be stored on a 5-mil plastic liner and covered with a 5-mil plastic cover or equivalent liner and cover to control air emissions, rainwater infiltration, and stormwater runoff.

Review the cause of the fire and modify operations as necessary to prevent and minimize the potential for a fire of the same or similar origin.

6.3 Accidents Involving Personal Injury

The following procedures should be carried out for all accidents involving personal injury:

- Shut down tire handling operations
- Notify ambulance and hospital if necessary by dialing 911
- Stabilize the injured party(s)
- Evaluate the type and severity of the injury
- Perform first aid depending upon severity of injury
- Notify supervisor
- Document accident
- Review procedures in an effort to avoid a recurrence of the same of similar injury

6.4 Flood

The tire handling area is located at the same elevation as the cement and power plants. Flood control is maintained by a nearby flood control canal (within 100 feet) which is part of the power plant cooling system of diked ponds.



6.5 Emergency Contact Information

In the event of an emergency, facility personnel shall call 911. Should any emergency require notification to the company from an outside source, the company contacts are:

James Daniel – Facility Manager; 362-799-7881

George Townsend – Environmental Manager; 362-799-7881

6.6 Emergency Equipment

The following emergency equipment is maintained at the tire facility:

<u>Fire extinguishers</u> at the kiln feed area by the electrical control box. Each fire
extinguisher is marked with specific directions and applicable use.

Proper procedure for use is **PASS**: **Pull** safety pin **Aim** nozzle at base of fire **Squeeze** the lever **Sweep** side to side while releasing contents of fire extinguisher.

• Front-end loader. The front-end loader may be used to separate non-burning material form material that is on fire. The front-end loader may be used to cover burning material with dirt to smother flames. The front-end loader is to be used to complete the water control berm prior to discharging any water within the facility.



SAFETY SURVEY

3



Spring Hill Fire Department **Inspection Report**

No. 3160

New Inspec	tion 7	1121 1	
		1/2/10	2
Phon	e# 799	7881	
		Insp. ID	Fee
			1.00
2nd Re-Insp	ection		
3rd Re-Insp	ection		
ONS			
EXTINGUISHERS -	NFPA 10		
Extinguishe Extinguishe Other SPRINKLER AND S Sprinkler/Si Sprinkler H Other FIRE ALARM - NFP Fire alarm i Other COOKING EQUIPM Accumulati Hood and o Extinguishi Other cook	rs not properly installed rs not inspected and tags not readily visible or readily visibl	gged as required accessible PA 13 PA 13 Perly maintained of Close To Stock PO & NFPA 1 Open g equip, or duct rd with NFPA 96 d with code cy	5Kt.
FIRE PUMP - NFPA	20 - Not Maintained		rut
	ING SEE	Carmo	ENT
LI EMERGENCY MAN	AGEMENT REQI	JIREMENTS	
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N. 1. 17 7 189 189			
	Ist Re-Insp 2nd Re-Insp 3rd Re-Insp 5ring 1st 5ring 1sh 5ring 1sh 6ring 2stringuishe 6ring 2stringuishe 7 Other 6 ELECTRICAL EQUI 6 ELECTRICAL EQUI 7 ELECTRICAL EQUI 7 Service part 8 Electrical p 8 Improper u 9 Other elect 9 COOKING EQUIPM 9 Accumulatt 1 Hood and of 1 Extinguishi 1 Other cook 1 FIRE PUMP - NFPA 1 GENERATOR TEST 1 FIRE DRILLS 1 EMERGENCY MAN	1st Re-Inspection 2nd Re-Inspection 3rd Re-Inspection IONS EXTINGUISHERS - NFPA 10 Extinguishers not charged or inope Extinguishers not properly installed Extinguishers not readily visible or other SPRINKLER AND STANDPIPE - NFP Sprinkler/Standpipe system not pro Sprinkler Heads Obstructed or Too Other FIRE ALARM - NFPA 72 Fire alarm not maintained Other ELECTRICAL EQUIPMENT - NFPA 7 Service panel obstructed Electrical panels or junction boxes Improper use of extension cords Other electrical deficiencies COOKING EQUIPMENT - NFPA 96 Accumulation of grease on cooking Hood and duct system not in accord Other cooking equipment deficience TIRE PUMP - NFPA 20 - Not Maintained GENERATOR TESTING FIRE DRILLS EMERGENCY MANAGEMENT REQUIPMENT	Ist Re-Inspection 2nd Re-Inspection 3rd Re-Inspection Stringuishers - NFPA 10

Above violations may cause a fire, contribute to the spread of fire, or cause undue injury in the event of a fire. Violations must be corrected by immediately.

Failure to correct violations may result in fines and/or legal action in accordance with Spring Hill Fire IMAGE IS OF POOR QUALITY Ordinances and the Florida Fire Prevention Code.

COMPLIANCE REQUIRED FORTHWITH REINSPECTION DATE ON OR ABOUT:

CLOSUR

E PLAN



CLOSURE PLAN

Tire Facility (62-711 F.A.C.)

CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC

Brooksville South Plant 10311 Cement Plant Road Brooksville, Hernando County Florida

Plan Date: September 20, 2012



4014 NW 13th STREET GAINESVILLE, FL 32609-1923 352/377-5822 **F**AX/377-7158

Dept. of Environmental Protection
SEP 26 2012
SEP 26 2012
SEP 26 2012

CLOSURE PLAN

Tire Facility (62-711 F.A.C.)

CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC

Brooksville South Plant 10311 Cement Plant Road Brooksville, Hernando County Florida

Plan Date: September 20, 2012

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1.0 FACILITY INFORMATION

Facility Name: CEMEX Brooksville South Tire Facility

Facility Operator/Owner: CEMEX Construction Materials Florida, LLC

Facility Address: 10311 Cement Plant Road

Brooksville, Florida 34605-1508

Facility Telephone: 352-799-7881

Facility Location: Section 8, Township 22 South, Range 19 East

Latitude: 28° 35' 00", Longitude: 82° 25' 45"

Facility Contact: George Townsend, Environmental Manager

352-799-7881

george.townsend@cemex.com

Authorized Representative: Jim Daniel, Plant Manager

352-799-7881

2.0 FACILTY DESCRIPTION

The CEMEX Brooksville South Cement Plant operations include a waste tire processing facility (Facility) with on-site consumption of tires regulated under 62-711 F.A.C. The maximum quantity of tires to be stored at the facility is 300 tons. The maximum daily throughput is 144 tons/day based on 6 tons/hour of usage. There is no waste from the combustion of whole tires as a fuel in the cement manufacturing process. This Closure Plan is provided to address 62-711 F.A.C.

3.0 CLOSURE PLAN

3.1 Notification and Closing Process

Prior to ceasing operations, notification will be provided to the Florida Department of Environmental Protection (Department) and contracted tire generators of the intent to close and the expected time frame. Access to the facility is controlled through the use of plant personnel on site 24 hours per day, 7 days per week by the use of surveillance cameras, fences, and natural barriers. All vehicles are logged in and out. When the facility is no longer going to function as a tire facility, the plant personnel will deny access of tire collectors to the facility. A notice will be posted at the entrance to the property stating that the tire processing facility is closed and providing the phone number of the county solid waste authority.

Prior to closing the Facility, any remaining tires from the tire trailer staging area and tire handling area and will be combusted in the cement kilns or removed from the facility and taken to a tire processing facility, solid waste management facility authorized to accept tires, or a legitimate user of such tires.

3.2 Quantity of Tires

The maximum quantity of tires to be stored at the facility is 300 tons. The expected maximum daily throughput is 144 tons per day. There is no waste from the combustion of whole tires as a fuel in the cement manufacturing process. Based on the inventory is therefore approximately two day's supply on hand. The quantity of tires stored at the

facility will not exceed 300 tons. This amount is more limiting that that allowed by Rule 62-711.530(2)(a), F.A.C., which allows that amount of tires that the equipment is capable of combusting over a thirty (30) day period.

3.3 Closure Scheduling

At the time a decision is made to close the Facility, it is estimated that the total time necessary for closure will be as follows:

3.3.1 Notification Period – 2 months

The Notification Period is expected to be two months to allow time for tire collectors to revise their routing and notify the generators.

3.3.2 Combust All Waste Tires at Facility – 2 months

After the 2 month Notification Period ends, the facility will be closed to incoming tires. The facility will be managed to ensure that 300 tons (~7 percent of the amount of storage for 30 days of normal operations) are combusted within 30 kiln operation days. To cover any unforeseen circumstances (i.e., down time), this phase of closure is estimated to be 60 days.

3.3.3 Removal of Residues - 15 days

Although significant quantities are not expected, any residues at the facility will be loaded into trailers or roll-off containers and transported to a Department-approved tire processing facility (62-711 F.A.C.) or other solid waste management facility for disposal.

3.3.4 Restore Facility to its Pre-Permit Condition

If facility rehabilitation in accordance with 62-711.700(3)(c) is deemed necessary by the Department, CEMEX will work with the Department to develop and implement a plan for action. Part of the plan development will address adequate time for completion. Without a scope of work, the time frame to complete this task is unknown.

3.3.5 Department Notification

CEMEX will notify the Department when the closing of the Facility is complete. CEMEX understands that the Department will inspect the site to ensure that all closing procedures have been correctly implemented and completed. Upon Department inspection and approval of the Facility closing, the Department shall provide CEMEX approval of the closing in writing. It is further understand that the Department Secretary or his designee shall release the financial instrument within 30 days of closing approval.

3.4 Closure Cost Estimates

The estimated closing costs for the Facility are based on current third party estimates. The third parties are not subsidiary or parent companies and their estimates are based on performing the work and are reported on a per unit basis. Closing costs include tire removal and disposal of tires, manual labor for Facility cleanup and inspection by a Professional Engineer registered in the state of Florida. The cost estimates are certified by a Professional Engineer.

The actual total estimated costs of closing the Facility (including contingency) at the time of permit application and development of this Closure Plan is \$32,990. The closing estimates are provided in the Appendices, and are detailed in the following sections.

3.4.1 Removal/Disposal of Tires

The closing cost estimate for this task is based on the quantity of tires that are permitted for the facility at the amount that would be expended to remove, process, and dispose of tires at the Facility and to close the Facility. The estimate was obtained from Liberty Tire and is provided as Appendix A. The estimate is as follows:

300 tons @ \$100/ton = \$30,000

3.4.2 Professional Engineer Services

This cost estimate is for an inspection by a professional engineer registered in Florida. A professional engineer will visit the Facility to determine if there are spills or any solid wastes remaining after the removal of residues. The engineer will provide an inspection report detailing the findings and if applicable, will direct the cleanup effort. The closure cost estimate includes the cost for the inspection and reporting (see Appendix B).

The estimate for professional engineering services is as follows:

Site Inspection and Reporting - 8 hours at \$175/hour = \$1,400.00

3.4.3 Manual Labor

Manual Labor

The cost of manual cleaning and debris removal is based on the United States Bureau of Labor Statistics for Occupational Employment and Wages, May 2011 for Cleaners of Vehicles and Equipment.¹ The cost for manual labor for facility cleanup is estimated as follows:

Cleanup – 2 workers at \$25/man hr. x 24 hrs. per worker = \$1,200.00

3.5 Summary of Closure Plan

CEMEX has developed this Closure Plan in accordance with Rule 62-711.700 (F.A.C.) and Rule 62-701.320(10)(b) (F.A.C.). Closing cost estimates were obtained from independent third parties. The total current estimated cost of closing the Facility is \$32,990. A Financial Assurance Cost Estimate Form is provided as Appendix C. Upon approval of the closing cost estimates, CEMEX will obtain the required financial assurance document.

¹US DEPARTMENT OF LABOR, OCCUPATIONAL EMPLOYMENT STATISTICS, Occupational Employment and Wages, May 2011. http://www.bls.gov/oes/current/oes537061.htm.

- A. Removal and Disposal Estimate
- B. P.E. Estimate
- C. Closure Cost Estimate Form

APPEZD-CES





R E M

&

SPOSAL

ESTIMATE





To:

George Townsend

Cemex Environmental Manager

Brooksville South Plant 10311 Cement Plant Road Brooksville, FL 34601

From: Thomas Carter, Liberty Tire Recycling

1517 Hunt Club Blvd

Suite 300

Gallatin, TN 37066

Cc: Mike Henning

Date: 9/18/12

Re: CEMEX, Inc. Brooksville, FL

In the event of an extended tire feed stoppage or the closure of the CEMEX, Inc. Cement Plant located at 10311 Cement Plant Road in Brooksville, Florida (Brooksville South Cement Plant); any remaining tires, whether stored in trailers or within any permanently installed feed system, up to 300 tons as permitted by the Florida DEP would be removed by the plant and taken by a hauler of your choice to either another Cement Kiln or a Tire Processing facility of Liberty's choosing for final processing.

The total cost of the removal and reprocessing of said tires would be \$30,000.

This writing is an estimate only and should not be construed to be a firm quote.

Sincerely,

Thomas Carter VP Alternative Fuels Liberty Tire Recycling B







4014 NW 13th STREET GAINESVILLE, FL 32609-1923 352/377-5822 • FAX/377-7158

Mr. James Daniel CEMEX Construction Materials Florida, LLC 10311 Cement Plant Road Brooksville, FL 34601

Re:

Closing Cost Estimate - Professional Engineering Services CEMEX Brooksville South Cement Plant Tire Facility Brooksville, Hernando County, Florida

Dear Mr. Daniels:

Thank you for the opportunity to present this cost estimate for Professional Engineering services for the Brooksville South Cement Plant, Tire Facility.

A Professional Engineer (P.E.), registered in Florida, will visit the Facility to conduct a site inspection to determine if there are any clean-up activities necessary to meet the closure requirements as described in the Closure Plan and in accordance with Rule 62-711 (F.A.C.). The engineer will provide an inspection report detailing the findings and directing clean-up efforts if necessary. The costs for Professional Engineering services as described above are as follows:

Site Inspection by P.E., 4 hours at \$175.00/hr. = \$700.00

Report of findings and direction of clean-up as necessary,

4 hours at \$175.00/hr. = \$700.00

TOTAL \$1,400.00

We look forward to assisting you with this project in the future.

Best regards,

Maxwell R. Lee., Ph.D., P.E.

President, Koogler and Associates, Inc.

MRL/tlr

CLOSURE

COST

ESTIMATE FORM







Florida Department of **Environmental Protection**

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(28), F.A.C.

Form Title: Closure Cost Estimating Form For Solid Waste Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

				Date of D	EP Approval:		
I. GENERAL	INFORMATION	:			• •		
Facility Name	e: <u>CEMEX</u> Br	ooksville Sou	th Tire Proces	sing Facility	\	WACS ID:	
Permit Applic	ation or Consen					tion Date: N/A	
Facility Addre	ess: <u>10311 C</u> e	ment Plant F	Road				
Permittee or	Owner/Operator	CEMEX	Construction I	Materials Florida, L	LC		
Mailing Addre	ess: <u>10311 C</u> e	ment Plant F	Road; Brooksvi	lle, FL 34601			
Latitude: _	28 °	35'	00 "	Longitude:	82°	25'	45 "
Coordinate M	lethod: <u>Degre</u>	es/Minutes/S	SecD	atum: <u>NAD83 (assı</u>	umed)	_	
Collected by:	Unknown/Fro	m Origin <u>a</u> l Fo	orm C	ompany/Affiliation	N/A		
Solid Waste I	Disposal Units Ir	cluded in Es	timate:				T
			Date Unit	Active Life of	16 (1	If closed:	If closed:
			Began Accepting	Unit From Date of Initial Receipt	If active: Remaining	Date last waste	Official date of
Pha	ase / Cell	Acres	Waste	of Waste	life of unit	received	closing
	N/A	N/A	N/A	N/A	N/A	N/A	N/A
							_
Total disposa	l unit caroasa in	أماله ما أمماميا		Cleaure: NI/A	Lor	ng-Term Care:	NI/A
Total dispose	I unit acreage in	ciuded in this	s esumate.	Closure: N/A		ig-Teilli Cale.	<u>IN/A</u>
Faci	lity type:	Class I	□ C	lass III	C&D Debris	Disposal	
	all that apply)			1000 M	000 000	- Diopoodi	
·		. • • • • • • • • • • • • • • • • • • •					
II. TYPE OF	FINANCIAL AS	SURANCE I	OCUMENT (Check type)			
	etter of Credit*		·	ce Certificate	□ Esc	row Account	
□ i	Performance Bo	nd*	□ Financi	al Test	□ For	m 29 (FA Defe	erral)
*	Guarantee Bond	*		und Agreement		•	·
*	- Indicates mechanis	ms that require		by Trust Fund Agreemen	t		
Northwest Dist	rict Nort	neast District	Central District	Southwest District	South Distri	ct Sou	theast District

160 Government Center Pensacola, FL 32\$02-5794 850-595-8360

7825 Baymeadows Way, Ste. B200 3319 Maguire Blvd., Ste. 232 Jacksonville, FL 32256-7590 904-807-3300

Orlando, FL 32803-3767 407-894-7555

13051 N. Telecom Pky. Temple Terrace, FL 33637 813-632-7600

2295 Victoria Ave., Ste. 364 Fort Myers, FL 33901-3881 239-332-6975

400 N. Congress Ave., Ste. 200 West Palm Beach, FL 33401 561-681-6600

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate ajustment below.

☐ (a) Inflation Factor Adjustment

(b) Recalculated or New Cost Estimates

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflatory by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website www.dep.state.fl.us/waste/categories/swfr or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the I	Department approved closing	cost estimate dated	:	To Be Approved
Latest Department Approved Closing Cost Estimate:	Current Year Inflation Factor, e.g. 1.02			Inflation Adjusted Closing Cost Estimate:
	×		=	
This adjustment is based on the I	Department approved long-ter	rm care cost estimat	e dated:	N/A
Latest Department Approved Annual Long-Term Care Cost Estimate:	Current Year Inflation Factor, <i>e.g. 1.02</i>		=	Inflation Adjusted Annual Long-Term Care Cost Estimate:
Number of Years of Lo	ong Term Care Remaining:		×	
	•	te:	=	
Signature by:	Owner/Operator	_		
Signatu	ile	10311 00		
James Daniel, Facility Manager		Brooksvil	le, FL 34601_	
Closing Cost Estimate: Factor, e.g. 1.02 Cost Estimate: X				
Closing Cost Estimate: Factor, e.g. 1.02 Cost Estimate: X				
/ C Date			E-M	ail Address
352-799-7881				
Telephone N	Number			

IV. ESTIMATED CLOSING COST (check what applies)

☐ New Facility Cost Estimate

Notes: 1. Cost estimates for the time period when the extent and manner of landfill operation makes closing most exp

- 2. Cost estimate must be certified by a professional engineer.
- 3. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.
- 4. In some cases, a price quote in support of individual item estimates may be required.

4. In some eases, a pric	'.`	Number		
Description	Unit	of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells	•	de wells already	in existence.)	
	EA			
			Proposed Monitoring Wells:	
2. Slope and Fill (bedding layer		and barrier lay	er):	
Excavation	CY			
Placement and Spreading	CY			
Compaction	CY			
Off-Site Material	CY			
Delivery	CY	***		
			Subtotal Slope and Fill:	
3. Cover Material (Barrier Layer)):			
Off-Site Clay	CY			
Synthetics - 40 mil	SY			<u> </u>
Synthetics - GCL	SY			
Synthetics - Geonet	SY			
Synthetics - Other (explain)				
	_		Subtotal Cover Material:	
4. Top Soil Cover:				
Off-Site Material	CY			
Delivery	CY			
Spread	CY		, <u> </u>	
			Subtotal Top Soil Cover:	·
5. Vegetative Layer				
Sodding	SY			
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
			Subtotal Vegetative Layer:	
6. Stormwater Control System:	-			
Earthwork	CY			
Grading	SY			
Piping	LF			
Ditches	LF			
Berms	LF			
Control Structures	EA			
Other (explain)				
		Subtotal S	Stormwater Control System:	
	-			

Description		11.14		mber Units	0 4	11-24	Total Cont
Description 7. Passive Gas Control		Unit	OT !	Units	Cost /	Unit	Total Cost
Wells	1;	- ^					
		EA	-			 -	
Pipe and Fittings		LF	•				
Monitoring Probes		EA	_			 -	
NSPS/Title V requir	rements	LS	_	<u>1</u> Sı	so.	<u>00 </u>	
8. Active Gas Extractio	n Control:			00	apiolai i ao	_	· · · · · · · · · · · · · · · · · · ·
Traps		EA	_				
Sumps		EA				-	
Flare Assembly		EΑ				 -	
Flame Arrestor		EA					
Mist Eliminator		EA					
Flow Meter		EA	_				
Blowers		EA			-		
Collection System		LF	_			 -	
Other (explain)		_,	_				
		***************************************	Su	—— btotal Ad	tive Gas F	xtraction Control:	
9. Security System:				Diolai / ii	J., 70 Out _		-
Fencing		LF					
Gate(s)		EA	_			 -	*
Sign(s)		EA	_		<u> </u>		
Oign(e)		LA	_		Subtotal	Security System:	
10. Engineering:					•	-	
Closure Plan Repor	rt	LS	_	1	\$0	.00	
Certified Engineering	Drawings	LS		1	\$0	.00	
NSPS/Title V Air Pe	ermit	LS		1	\$0	.00	· · · · · · · · · · · · · · · · · · ·
Final Survey		LS		1	\$0	.00	<u> </u>
Certification of Clos	sure	LS		1	\$0	.00	
Other (explain)			_		<u></u>		
					Subt	otal Engineering:	
Description	Hours		ost / Hour		lours	Cost / Hour	Total Cost
11. Professional Service			OSCITION			- COSC, Flour	10141 0001
11.1101000101141001410		Managen	nent		Quality As	surance	
P.E. Supervisor	4		\$175.0(4	\$175.00	\$1,400.00
On-Site Engineer			,	_			ψ1,+00.00
Office Engineer							
On-Site Technician				_			
Other (explain)	48		\$25.00	-			£4 200 00
2 Clean-up Techs, 24hr			<u> </u>	-			\$1,200.00
2 Clean-up Techs, 2411							
			Nu	mber	- 		
Description		Unit		Units	Cost	Unit Unit	Total Cost
Quality Assurance	Testing	LS		1			
	-		_	Sul	btotal Profe	essional Services:	\$2,600.00
						•	

		Subtotal of 1-11 Above: _	\$2,600.00
12.	Contingency15 % o	f Subtotal of 1-11 Above	\$390.00
		Subtotal Contingency: _	\$390.00
		Estimated Closing Cost Subtotal:	\$2,990.00
	Description		Total Cost
13.	Site Specific Costs		
	Mobilization	_	
	Waste Tire Facility		\$30,000.00
	Materials Recovery Facility		
	Special Wastes		
	Leachate Management System	Modification	
	Other (explain)		
		Subtotal Site Specific Costs:	\$30,000.00
		TOTAL ESTIMATED CLOSING COSTS (\$):	£22.000.00
		TOTAL ESTIMATED CLOSING COSTS (\$).	\$32,990.00

	PR LONG-TERM CARE 2-701.620(1), 62-701.630(3)a. an tment accepted, enter the remain			
	Years 20 Years 30			years remaining.
. ,	st estimates must be certified by	· -		
	•	•		market value
	st estimates based on third party	• •		market value.
	some cases, a price quote in supp			
All items must be add	ressed. Attach a detailed exp	olanation for all entri	es left blank.	
Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
Description	(Lveilts / Teal)	Wells		Aillidai Cost
1 Groundwater Monit	oring [62-701.510(6), and (8	l/e/l		
Monthly	12	/(a)]		
•	· -			
Quarterly	4			***************************************
Semi-Annually	2			
Annually	1			
			Groundwater Monitoring	:
	itoring [62-701.510(4), and (8)(b)]		
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
		Subtotal S	urface Water Monitoring	
3. Gas Monitoring [62	-701.400(10)]			
Monthly	12		<u></u>	
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Gas Monitoring	:
4. Leachate Monitorin	ng [62-701.510(5), (6)(b) and	62-701.510(8)c]		
Monthly	12			
Quarterly	4	<u> </u>		
Semi-Annually	2	<u> </u>		
Annually	1	<u>—</u>		
Other (explain)				
· · · / <u>—</u>		——— Subt	otal Leachate Monitoring	
				·
		Number of		
<u>Description</u>	Unit	Units / Year	Cost / Unit	Annual Cost
	n/Treatment Systems Maint	enance		
<u>Maintenance</u>				
Collection Pipes	LF			
Sumps, Traps	EA			
Lift Stations	EA			
Cleaning	LS	<u> </u>		

Tanks

EΑ

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)			OOSE / UIIIL	,uu 003t
Impoundments				
Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems	01			
Floating Aerators	EA			
Spray Aerators	EA			
Disposal	271	<u></u>		<u>.</u>
Off-site (Includes	1000 gallon			
transportation and disposal)	1000 gallori	Cubtotal Leacha	te Collection / Treatmen	+
indisposation and disposally		Subtotal Leacha	Systems Maintenance	
6. Groundwater Monitoring We	II Maintenance		Cyclomo mantonario	
Monitoring Wells	LF			
Replacement	EA			
Abandonment	EA			
Abandoninefit		tal Groundwater Monit	oring Well Maintenance	
7. Gas System Maintenance	Gubio	tal Oloullawater Morni	orning vven maintenance	·
Piping, Vents	LF			
Blowers	EA			
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			**
Operation	LS			
Operation	LO	l Subtotal G	<u>\$0.00</u> as System Maintenance	
8. Landscape Maintenance		Subtotal O	as Gystern Maintenance	·
Mowing	AC			
Fertilizer	AC	 _		
reitilizei	AC	Subtotal I	_andscape Maintenance	
9 Fracion Control and Cover	Maintananca	Subtotal	-andscape Mantenance	·
9. Erosion Control and Cover Sodding	SY			
<u> </u>	AC			
Regrading Liner Repair	SY			
•	CY			
Clay		htatal Francias Control	and Cover Maintenance	•
10 Storm Mator Management			and Cover Maintenance	·
10. Storm Water Management				
Conveyance Maintenance	LS Subtatal St		\$0.00 ent System Maintenance	,
11 Socurity System Basinton		onn vvater manageme	an Oystern wantenance	•
11. Security System Maintena Fences	ance LS	4		
		1	\$0.00	
Gate(s)	EA			
Sign(s)	EA	Cultistatal Consu	rity System Maintenance	·
		Suprotal Secur	rity System Maintenance	··

			Number of		
	Description	Unit	Units / Year	Cost / Unit	Annual Cost
12.	Utilities	LS	1	\$0.00	
				Subtotal Utilities	S:
13.	Leachate Collection/Trea	tment Systems O _l	peration		
<u>Op</u>	eration				
	P.E. Supervisor	HR			
	On-Site Engineer	HR			
	Office Engineer	HR			
	OnSite Technician	HR			
	Materials	LS	1	\$0.00	
		Subtotal Lea	chate Collection/Treatm	ent Systems Operation	n:
14.	Administrative				
	P.E. Supervisor	HR			
	On-Site Engineer	HR			
	Office Engineer	HR	<u> </u>		
	OnSite Technician	HR			
	Other				
				Subtotal Administrative):
				ubtotal of 1-14 Above	:
15.	Contingency		% of Subtotal of 1-14 Ab		
				Subtotal Contingency	<i>/</i> :
			Number of		.
	Description	Unit	Units / Year	Cost / Unit	Annual Cost
16.	Site Specific Costs				
					
			Subt	total Site Specific Costs	s:
		Al	NNUAL LONG-TERM C	ARE COST (\$ / YEAR)): <u> </u>
			Number of Ye	ears of Long-Term Care	o:
			TOTAL LONG-1	TERM CARE COST (\$)):

VI. CERTIFICATION BY ENGINEER

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and/or long-term care of the facility and comply with the requirements of Rule 62-701.630 F.A.C. and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630 F.A.C.

other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C. 4014 NW 13th Street Signature Mailing Address Maxwell R. Lee, Ph.D., P.E. Gainesville, FL 32609 Name and Title (please type) City, State, Zip Code mlee@kooglerassociates.com E-Mail address (if available) 352377-5822 Florida Registration Number (please affix seal) VII. SIGNATURE BY OWNER/OPERATOR 10311 Cement Plant Road

OTHER PERMITS





EMEX Brooksville South Cement Plan	n t			100
Permit Type and Number	Issued To	Issued Date	Expiration Date	Issued By
				:
Title V Operation 0530021-029-AV	CEMEX Construction Materials Florida, LLC & CPL	9-Jan-12	29-Dec-16	FDEP
		,		
Air Construction Permit 0530021-043-AC	CEMEX Construction Materials Florida, LLC & CPL	4-Sep-12	3-Dec-15	FDEP
		:		
Air Construction Permit 0530021-044-AC	CEMEX Construction Materials Florida, LLC & CPL	4-Sep-12	3-Dec-15	FDEP
Power Plant Siting Act, PA 82-170	CEMEX Construction Materials Florida, LLC & CPL	13-Dec-05	13-Dec-15	FDEP
			, i *.	
Special Exception Use Permit Petition SE-05-04	CEMEX Construction Materials Florida, LLC	14-Feb-05	N/A	нсвсс
and the second s				
Waste Tire Processing Facility - <i>Previous Permit</i> No. 22787-002-WT, Facility ID No. SWD-27- 40778. Currently permitted through the Site Certification PA 82-170P	CEMEX Construction Materials Florida,	6-Dec-00	6-Dec-05	FDEP
	and the second s			7- 3

FDEP - Florida Department of Environmental Protection

HCBCC - Hernando County Board of County Commissioners