KOOGLER & ASSOCIATES, INC.
ENVIRONMENTAL SERVICES
4014 NW 13th STREET
GAINESVILLE, FL 32609-1923
www.kooglerassociates.com
352/377-5822 ■ FAX 352/377-5822

307-17-24
September 29, 2017

Sent via Email and USPS: steve.morgan@dep.state.fl.us

Steven G. Morgan, Air & Solid Waste Permitting Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

RE: CEMEX Brooksville South – Waste Tire Permit Renewal
Brooksville, Hernando County, Florida
FDEP Permit No. 22787-003-WT/02
WACS Facility ID SWD-27-40778

Dear Steve:

On behalf of CEMEX Construction Materials Florida, LLC, Koogler and Associates, Inc. is submitting this application package to renew the CEMEX Brooksville South Plant's Waste Tire Processing Permit No. 22787-003-WT/02. The current permit expires on December 3, 2017.

A copy of this application package is being submitted electronically and one hard copy is being mailed to your attention. The permit application fee of $1250 is enclosed with the hard copy. If you have any questions regarding this submittal, please contact me at (352) 377-5822 or treed@kooglerssociates.com.

Best regards,

Tammy L. Reed
Environmental Scientist II

/tlr
Enclosure

cc: Brent Steele – CEMEX Construction Materials Florida, LLC *(Email: brentc.steele@cemex.com)*
Maxwell R. Lee, Ph.D., P.E. – Koogler and Associates, Inc. *(Email:mlee@kooglerassociates.com)*
FDEP – Solid Waste Financial Coordinator *(Email: Solid.Waste.Financial.Coordinator@dep.state.fl.us)*

Reset Form | Print Form

Florida Department of Environmental Protection

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

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

Permit No. 22787-003-WT-02

Renewal ■ Modification □ Existing unpermitted facility □ Proposed new facility □

Part I-General Information:

A. Applicant Information:

1. Applicant Name: CEMEX Construction Materials Florida, LLC
2. Applicant Street Address: 10311 Cement Plant Road
3. City: Brooksville County: Hernando Zip: 34605
4. Applicant Mailing Address: Same as above
5. City: _____ County: _____ Zip: _____
6. Contact person: Brent Steele Phone: (352)799-7881 FEID No: _____
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.
   Yes □ **No** ■ **If yes**, attach a history and description of the enforcement actions.

B. Facility Information:

1. Facility Name: Brooksville South Cement Plant Waste Tire Processing Facility
2. Facility Street Address (Main Entrance): 10311 Cement Plant Road
3. City: Brooksville County: Hernando Zip: 34605
4. Facility Mailing Address: Same as above
5. City: _____ State: _____ Zip: _____
6. Contact Person: Brent Steele Phone: (352)799-7881
7. Facility Location Coordinates:

   Section: 8 Township: 22S Range: 19E

   Latitude: 28 35' 00" Longitude: 82 25' 53"
8. Anticipated date for starting construction NA and for completion of construction NA
9. Anticipated date for receipt of tires NA and for start of processing NA

Mail completed form to appropriate district office listed below

Northwest District	Northeast District	Central District	Southwest District	South District	Southeast District
160 Government Center	7825 Baymeadows Way, Ste. 200 B	3319 Maguire Blvd., Ste. 232	13051 N. Telecom Pky	2295 Victoria Ave., Ste. 364	400 North Congress Ave.
Pensacola, FL 32501-5794	Jacksonville, FL 32256-7590	Orlando, FL 32803-3767	Temple Terrace, FL	Fort Myers, FL 33902-2549	West Palm Beach, FL 33401
850-595-8360	904-807-3300	407-894-7555	813-632-7600	239-332-6975	561-681-6600

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

1. Owner's name: NA
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: Maxwell R. Lee, Ph.D., P.E. - Koogler and Associates, Inc.
2. Mailing address: 4014 NW 13th Street
3. City: Gainesville State: FL Zip: 32609
4. Phone: (352)377-5822
5. Affiliation with facility: Environmental Consultant - Project Engineer

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.

■ Waste tire processing facility with on-site consumption of waste tires or processing residuals.

☐ 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. Storage: 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:	300	130,680			300
Processed tires:					
Processing residuals:					
TOTALS:	300	130,680			300

D. For reporting quantity of tires in tons, tires will be: weighed on site ■ weighed off site ☐ weights will be calculated ☐

E. Facilities that will not be disposing of processed tire s 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 - tires are consumed by kiln
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 sec tions, 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;
   f. All structures and buildings that are, or will be, constructed at the fac ility; 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 processin g 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 facil ity 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.

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)

D. Attach proof of financial responsibility as requirement by Rule 62 -711.500(3) 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 pr ocessing facility.

F. If waste tires will be consumed or diposed of 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 CEMEX Construction Materials, Florida LLC Is aware that statements made in this form and attached information are an application for a Waste Tire Processing Permit from the Florida Department of Environmental Protection 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 Chap ter 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.

for A. Calleros — Signature of Applicant or Authorized Agent

Alberto Calleros, Plant Manager — Name and Title

10/02/17 — 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 facilit ies. In my professional judgment, this facility, when properly maintained and operated will comply with all applicable statues 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

Maxwell R. Lee, Ph.D., P.E.
Name and Title

58091
Florida Registration Number

MAXWELL R. LEE
LICENSE
No. 58091
STATE
FLORIDA
PROFESSIONAL ENGINEER
(please affix seal)

4014 NW 13th Street
Mailing Address

Gainesville, FL 32609
City, State, Zip

352-377-5822
Telephone number

9/29/17
Date

ATTACHMENT 1

Supporting Information

Attachment 1
Waste Tire Processing Facility Permit Renewal Application

Part I – General Information

A.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? **No enforcement actions have been taken by the Department since issuance of the current permit.**

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 USGS Topographic Map and Hernando County Property Appraiser Parcel Maps and Card provided as Figures 1 and 2A, B & C in Appendix A.**

   2) A plot plan of the facility on a scale of not less than one inch equals 200 feet. *For sub-items a through j:* **No changes are proposed for the facility with this application. Site Plans are provided as Figures 3A, 3B and Figure 4 in Appendix A. Figure 3A depicts the tire processing and staging areas, and Figure 3B depicts the overall site plan, which shows the locations of alternative fuel material storage (SW permit No. 22787-004-SO/31). Figure 4 is a recent aerial of the project site and vicinity.**

B. Facility Operation
   For sub-items 1 through 5 & 8: **No changes are proposed for the facility with this application, however CEMEX facility contacts have changed. An updated Operations Plan is provided in Appendix B. The only change is updated contact information.**

   Item 6. **The Emergency Preparedness Manual for the facility is incorporated into the Comprehensive Operations Plan which is provided in Appendix B. Copies are currently located at:**

   Brooksville South in the Environmental Office
   CEMEX Construction Materials Florida, LLC
   10311 Cement Plant Road
   Brooksville, FL 34601
   and
   Koogler and Associates, INc.
   4014 NW 13th Street
   Gainesville, FL 32609

   Item 7. **A copy of the latest fire safety survey is provided in Appendix C. A new survey is being conducted the week of October 2, 2017 and a copy will be forwarded upon receipt.**

C. Completed closing plan for the facility as required by Rule 62-711.700(2) and (3), FAC. **Rule 62-711.700(2) and (3) were repealed on February 16, 2012 and subsumed by Chapter 62-711.500(3) F.A.C. Therefore the required closing cost estimates and financial assurance as required by the applicable sections of the current Rule 62-711.500(3) are provided in Appendix D.**

Revised closing cost estimates including a third party estimate are provided in Appendix D. The current financial assurance is sufficient to cover the updated closing cost estimates.

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 a copy of the current Financial Assurance approval provided in Appendix D.**

E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility. **The applicant is the land owner.**

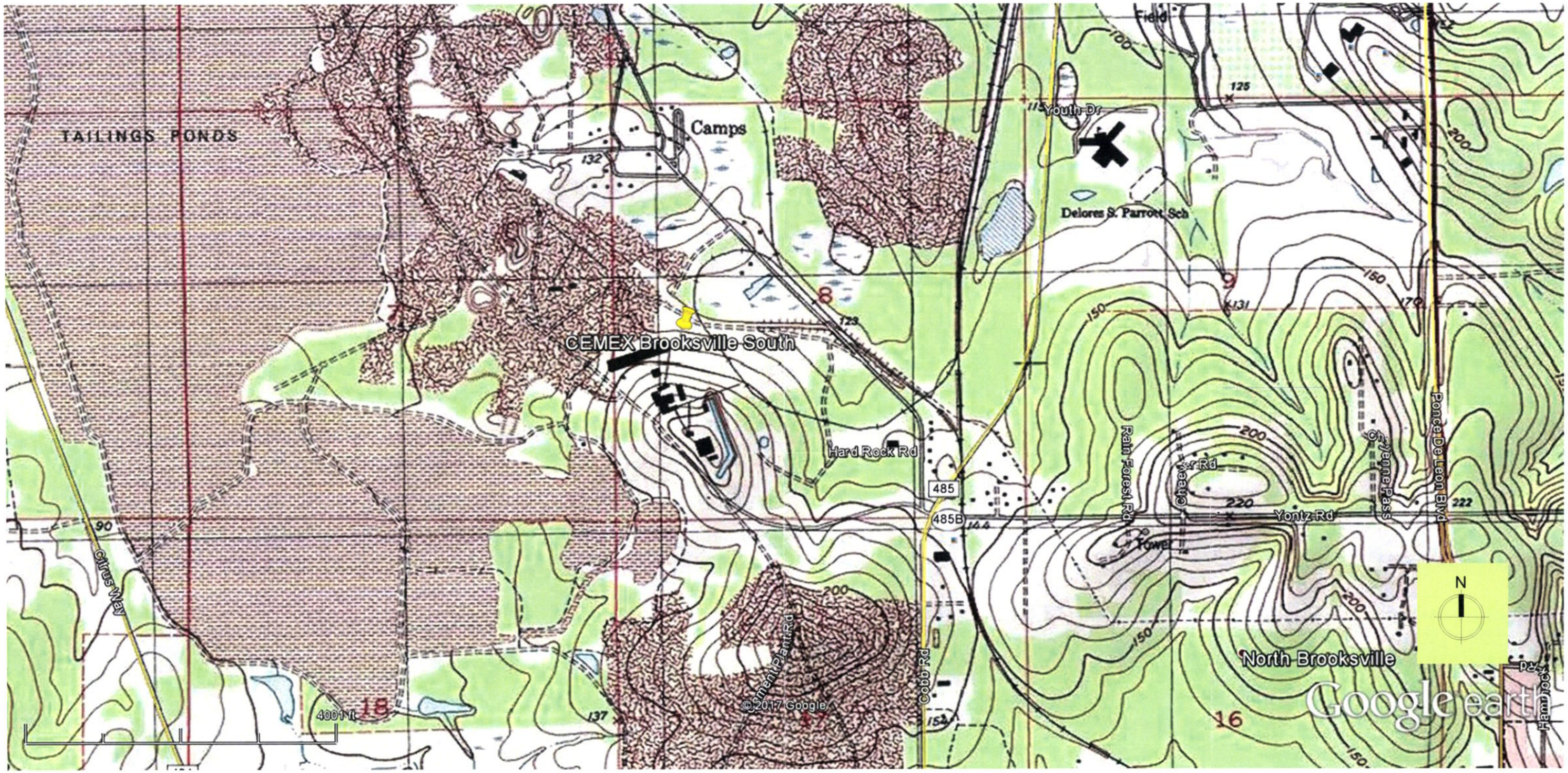
F. If waste tires will be consumed at the facility, attach a description of the other environmental permits that the applicant has for this use, including permit number, date of issue, and name of issuing agency. **See Other Environmental Permits provided in Appendix E.**

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.**

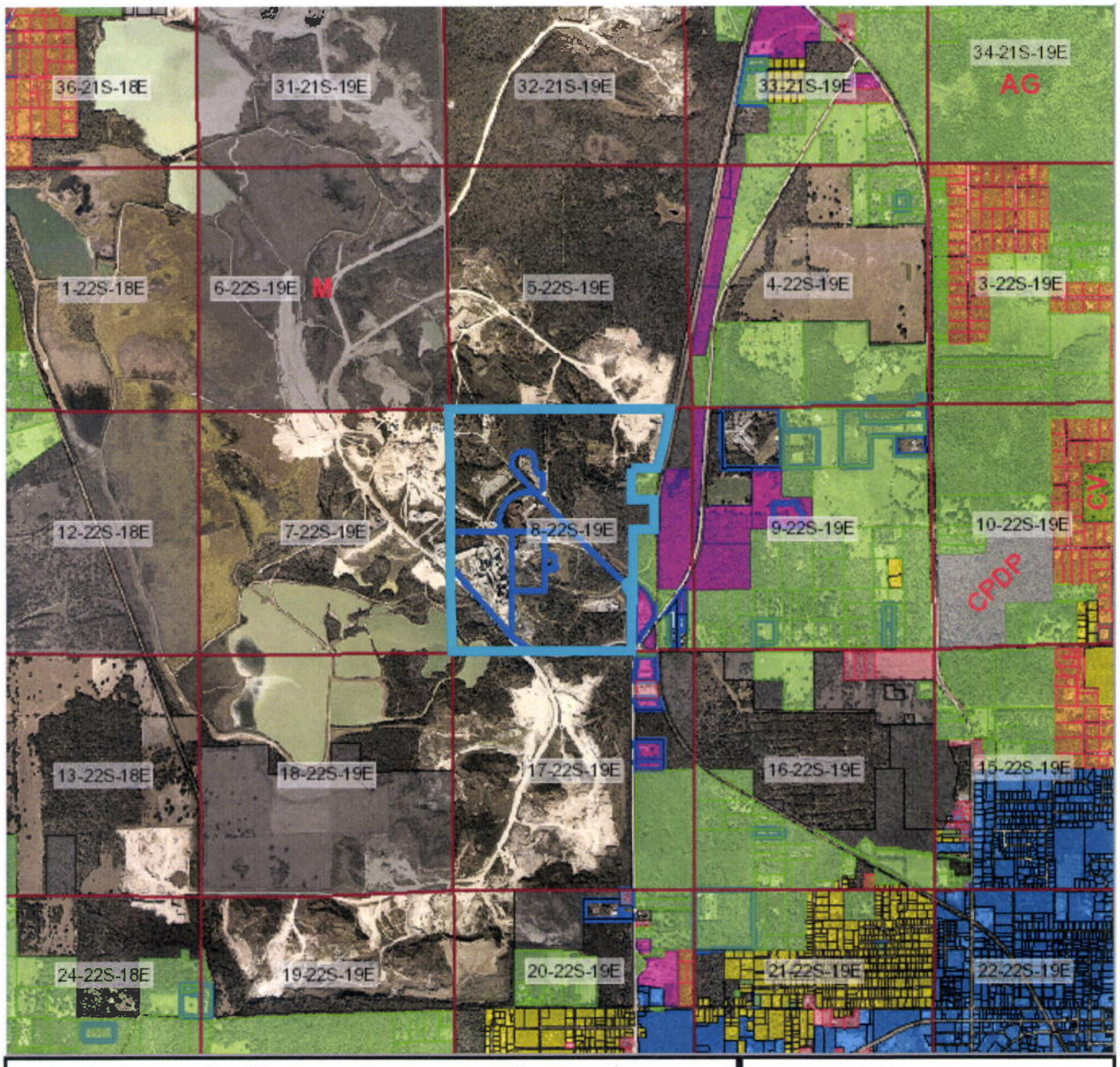
APPENDIX A

Figures 1, 2A, 2B, 2C, 3A, 3B & 4

Topographic Map, Property Appraiser Maps and Card, Site Plans and Site Location Aerial



Professional Engineer Certification LICENSE Maxwell R. Lee, Ph.D., P.E. Date No. 58091 P.E. No. 58091 STATE OF FLORIDA PROFESSIONAL ENGINEER	Scale 1"+/- 1150' *Topo Source: Google Earth* *©2017 Earth Point* *www.earthpoint.us* Drawing No. 307-17-24	**Figure 1 – USGS Topographic Map** **Brooksville South Cement Plant-Waste Tire Permit Renewal** **CEMEX Construction Materials Florida, LLC** **10311 Cement Plant Road, Brooksville, Hernando County FL 34605**	KOOGLER & ASSOCIATES ENVIRONMENTAL SERVICES 4014 NW THIRTEENTH STREET GAINESVILLE, FLORIDA 32609 352/377-5822 • FAX 377-7158



Hernando County Property Appraiser

John C. Emerson, CFA - Brooksville, Florida - 352-754-4190

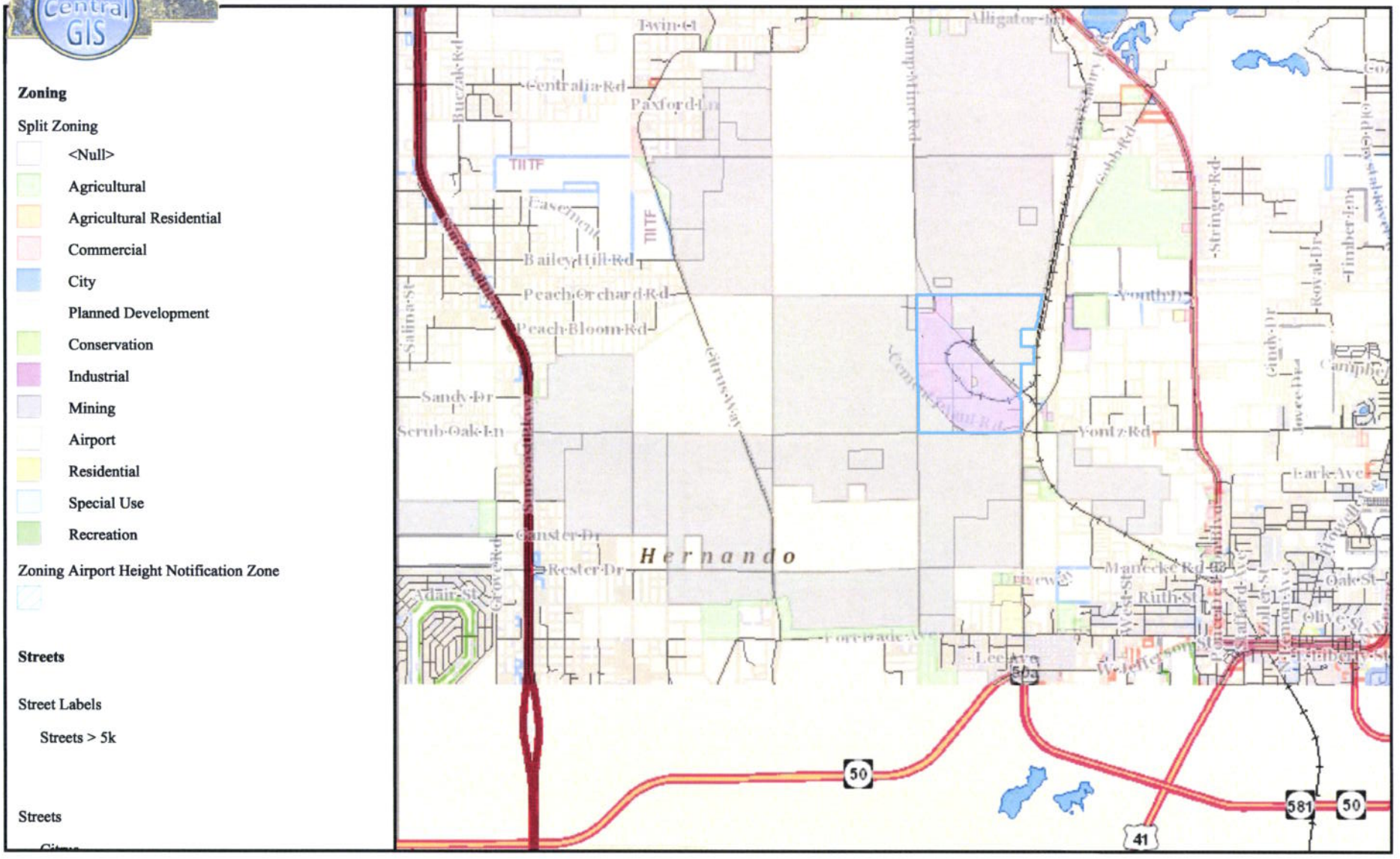
PARCEL: R08 422 19 0000 0050 0000 | **KEY: 348573**

W3/4 & NE1/4 OF NE1/4 LESS RR R/W & 100 FT R/W ACROSS E1/2 OF SE1/4 & THAT PT OF
** CONTINUED **

Name:	FLORIDA CRUSHED STONE CO
Site:	11210 CAMP MINE RD
Mail:	1501 BELVEDERE RD
	WEST PALM BEACH FL 33406-1501
Last Sale:	01/01/1980 $0.00 (D)
Levy Code:	CWES

Figure 2A

Zoning/Future Land



Not To Scale

CEMEX Brooksville South

Zoning and Land Use Map

Figure 2B

John C. Emerson, CFA
HERNANDO COUNTY PROPERTY APPRAISER
"To Serve and Assess With Fairness"

Figure 2C

Street Level photos may not be available if structure is not visible from road. Multiple Addresses Exist

Parcel Key: 00348573 Parcel #: R08 422 19 0000 0050 0000

Owner Information

Owner Name: FLORIDA CRUSHED STONE CO
Mailing Address: 1501 BELVEDERE RD WEST PALM BEACH FL 33406-1501

Property & Assessment Values

Building:	$3,671,289	Assessed:	$5,767,700
Features:	$177,640	Exempt:	$0
Land:	$2,133,900	Capped:	$5,755,329
AG Land:	$1,918,771	Excl Cap:	$12,371
Market:	$5,982,829	Taxable:	$5,767,700

Property Information

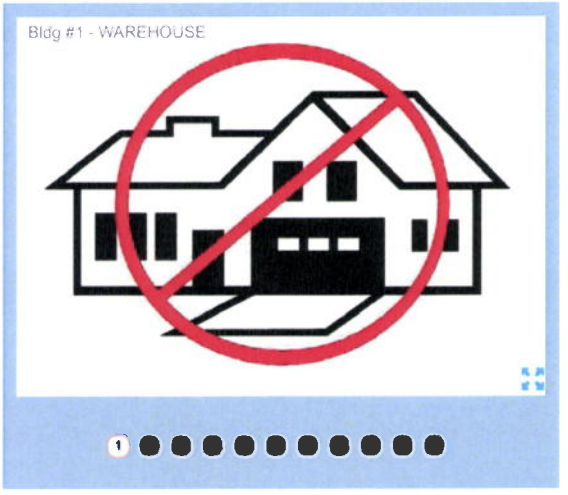
Site Address: 11210 CAMP MINE RD 1
Description: W3/4 & NE1/4 OF NE1/4 LESS RR R/W & 100 FT R/W ACROSS E1/2 OF SE1/4 & THAT PT OF SW1/4 OF SE1/4 OF NE1/4
DOR Code: (54) TIMBER NATURAL STAND
Levy Code: CWES Sec/Tnshp/Rng: 08-22-19
Subdivision:
Neighborhood: ALL MINING LAND (MINES)

Tax Information

AdValorem: $84,782.09
NONAdValorem: $12,019.75

Total For 2016: $96,801.84
Total For 2015: $99,115.29
Total For 2014: $97,672.74
Total For 2013: $96,706.05

Real Time Tax Info Pay Taxes On-line



Land Breakdown

Land Use	Units	Value
MINING	12.00 ACRES	60,000
MINING	12.00 ACRES	60,000
MINING-RAW AC	124.50 ACRES	435,750
MINING-RAW AC	59.50 ACRES	208,250
PLANT SITE/IND	263.40 ACRES	1,580,400
PLANT SITE/IND	263.40 ACRES	1,580,400
NON PRODUCTIVE - MINING	115.50 ACRES	57,750
NON PRODUCTIVE - MINING	115.50 ACRES	57,750
NAT STDTIMBR	65.00 ACRES	12,371

Sales Breakdown

Sale Date	Book/Page	Deed Type	Vacant/ Improved	Qualification	Sale Price	Grantee
01/01/1980				D	$0	FLORIDA CRUSHED STONE CO

Building Characteristics

Bldg #	Description	Year Built	Area (Base/Aux)	Bed/Bath	Value
1	WAREHOUSE(40)	1987	2760/240	/	$61,597
6	MANUFACTURED HOMES(02)	1972	360/	/1	$4,000
7	MANUFACTURED HOMES(02)	1973	250/	/1	$4,000
8	MANUFACTURED HOMES(02)	1973	624/	/1	$4,510
9	MANUFACTURED HOMES(02)	1973	432/	/1	$4,000
10	WAREHOUSE(40)	1987	108500/	/	$1,816,019
11	WAREHOUSE(40)	2008	32040/	/	$803,243
12	WAREHOUSE(40)	2008	20000/	/2	$602,140
13	WAREHOUSE(40)	1997	7500/1510	/4	$246,003
14	WAREHOUSE(40)	2013	1296/	/	$34,257
15	WAREHOUSE(40)	2016	2400/	/	$91,520

NOTE: All S.F. Calculations are based on exterior building dimensions

3	CHAIN LINK FENCE 4FT+ (CF2)		846 Linear Feet	$1,658
3	PAVEMENT, ASPHALT COMMERCIAL (PV3)		49,280 Square Feet	$30,061
11	PAVEMENT, CONCRETE COMMERCIAL (PV4)	2008	4,720 Square Feet	$10,620
11	PAVEMENT, CONCRETE COMMERCIAL (PV4)	2008	17,920 Square Feet	$40,320
11	PAVEMENT, CONCRETE COMMERCIAL (PV4)	2008	4,960 Square Feet	$11,160
12	DOOR,OVERHEAD,COMMERCIAL (DOH)	2008	384 Square Feet	$1,536
12	DOOR,OVERHEAD,COMMERCIAL (DOH)	2008	80 Square Feet	$320
13	CHAIN LINK FENCE 4FT+ (CF2)	2004	120 Linear Feet	$480
13	DOOR,OVERHEAD,COMMERCIAL (DOH)	1997	196 Square Feet	$2,352
13	DOOR,OVERHEAD,COMMERCIAL (DOH)	2005	392 Square Feet	$1,568
13	DETACHED UTIL, W/WOOD FLOOR (DUW)	2002	48 Square Feet	$67
13	OPEN PORCH, UNFINISHED (OPU)	2002	80 Square Feet	$72
13	PAVEMENT, ASPHALT COMMERCIAL (PV3)	1997	1,092 Square Feet	$1,365
13	PAVEMENT, ASPHALT COMMERCIAL (PV3)	1997	440 Square Feet	$550
13	PAVEMENT, ASPHALT COMMERCIAL (PV3)	1997	4,875 Square Feet	$6,094
13	PAVEMENT, ASPHALT COMMERCIAL (PV3)	1997	15,180 Square Feet	$18,975
13	PAVEMENT, ASPHALT COMMERCIAL (PV3)	1997	6,720 Square Feet	$8,400
13	PAVEMENT, CONCRETE COMMERCIAL (PV4)	1997	300 Square Feet	$675
13	PAVEMENT, CONCRETE COMMERCIAL (PV4)	1997	130 Square Feet	$293
13	PAVEMENT, CONCRETE COMMERCIAL (PV4)	1997	45 Square Feet	$101
13	PAVEMENT, CONCRETE COMMERCIAL (PV4)	1997	9,000 Square Feet	$20,250
13	UTILITY, DETACHED, WOOD FRAME (UTW)	2008	144 Square Feet	$876
14	DOOR,OVERHEAD,COMMERCIAL (DOH)	2013	3,364 Square Feet	$13,456
15	DOOR,OVERHEAD,COMMERCIAL (DOH)	2016	168 Square Feet	$672
15	PAVEMENT, CONCRETE COMMERCIAL (PV4)	2016	640 Square Feet	$1,440

Addresses

11210 CAMP MINE RD CAMP MINE RD 18441 HARD ROCK RD

Businesses

Name	TPP PIN	TPP Key	Date Filed	Date Audit	Levy Code	NAICS	Ent Zone	Curr Val	Last Yr Val	2 Yrs Ago
CLIFFS CONSTRUCTION SERVICES INC TRIM	P1980-000307-000	917164	03/11/2017	03/13/2017	CWES	562991	N	$58,194	$56,838	$69,804
LHOIST NORTH AMERICA OF ALABAMA LLC TRIM	P2002-001783-000	1370590	03/16/2017	04/07/2017	CWES	327410	N	$532,726	$571,530	$577,980
CHEYENNE ASPHALT INCORPORATED TRIM	P2006-000379-000	1609780	07/18/2017	07/19/2017	CWES	237310	N	$1,473,247	$1,037,405	$588,840

Mobile Homes

Name	PIN	Key	Date Filed	Date Audit	Levy Code	NAICS	Ent Zone	Current Value	Last Year Value	2 Years Ago

No Matching Records Found or the information is Exempt per Florida Statute(s).

Professional Engineer Certification

MAXWELL R. LEE LICENSE No. 58081 STATE OF FLORIDA PROFESSIONAL ENGINEER

Maxwell R. Lee, Ph.D., P.E. — 9/29/17 Date

P.E. No. 58081

Scale 1" = +/- 200 ft.

Aerial from Google earth
Image date 1/26/2011

Drawing No. 307-17-24

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

KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 • FAX 377-7158

Cement Plant Rd

20% of building

N

© 2012 Google

LEGEND

- Approx. 500 foot boundary from storage and processing areas
- Drainage Ditch
- ASB Storage area (1,000 tons, covered)
- A-frame Storage (1,000 tons covered)
- Outside Trailer Storage (100 tons)
- Approx. location of potable wells (FDEP)
- AFM Storage/ Processing Slab, Outside (300 tons)
- *Coal Yard Storage (2,500 tons)*
- *AFM handling/injection Feeder System*
- *No jurisdictional wetlands w/in 200' of storage/processing areas*

Professional Engineer Certification

MAXWELL R. LEE, JR. LICENSE No. 58091 STATE OF FLORIDA PROFESSIONAL ENGINEER

Maxwell R. Lee, Ph.D., P.E. — Date 9/29/17

P.E. No. 58091

Scale 1"= +/- 200'

Aerial Image from Google Earth Image Date 01/26/11

Drawing No. 307-17-24

Figure 3B – Overall Site Plan
AFM Storage/Processing Locations
CEMEX Brooksville South
Brooksville, Hernando County, FL

KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 • FAX 377-7158

Professional Engineer Certification

MAXWELL R. LEE LICENSE No. 58091 STATE OF FLORIDA PROFESSIONAL ENGINEER

Maxwell R. Lee, Ph.D., P.E.
P.E. No. 58091

9/29/17
Date

Scale 1" = +/- 1000 ft.

Aerial from Google earth
Image date 03/17/2017

Drawing No. 307-17-24

Figure 4 - Aerial
CEMEX Brooksville South
Cement Plant and Vicinity
Tire Facility (62-711 F.A.C.)
Brooksville, Hernando County, FL

KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
352/377-5822 • FAX 377-7158

APPENDIX B

Comprehensive Operations Plan

COMPREHENSIVE OPERATIONS PLAN

Tire Facility (62-711 F.A.C.)
Renewal of Permit No. 22787-003-WT-02

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

Plan Date: September 29, 2017

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

307-17-24

TABLE OF CONTENTS

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:	Brent Steele - Environmental Manager 352-799-7881/352-514-3683 bsteele@cemexusa.com
Authorized Representative:	Alberto Calleros – Plant Manager 352-799-7881 alberto.calleros@cemex.com

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 144 tons/day. There is no waste from the combustion of whole tires as tire ash/non-combustibles are 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 typically not unloaded unless they are expected to be used within 48 hours. Tires are stored at two locations at the site as shown on Figure 3A 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 and tire ash/non-combustibles are incorporated into clinker, 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:

Alberto Calleros– Facility Manager; 362-799-7881

Brent Steele – Environmental Manager; 362-799-7881/352-514-3683

6.6 Emergency Equipment

The following emergency equipment is maintained at the tire facility:

- Fire extinguishers 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.

APPENDIX C

Fire Inspection Survey

Inspection No:	
Inspection Date:	12/13/2016
Inspection Time:	
Inspector:	Joseph Filippelli

Hernando County Fire Rescue Violation Letter

Inspection and Compliance Orders

Facility:	CEMEX	Address:	10311 CEMENT PLANT RD		
Phone:	(352) 799-7881 x124				
Fax:		City:	BROOKSVILLE		
Email:	williame.butler@cemex.com	State:	FL	Postal Code:	34601
Contact:		Work:			
Email:		Cell:			

Inspection Type:	210 Inspection - Site

Violation Code	Days to Correct *	Violation/Notes	Location

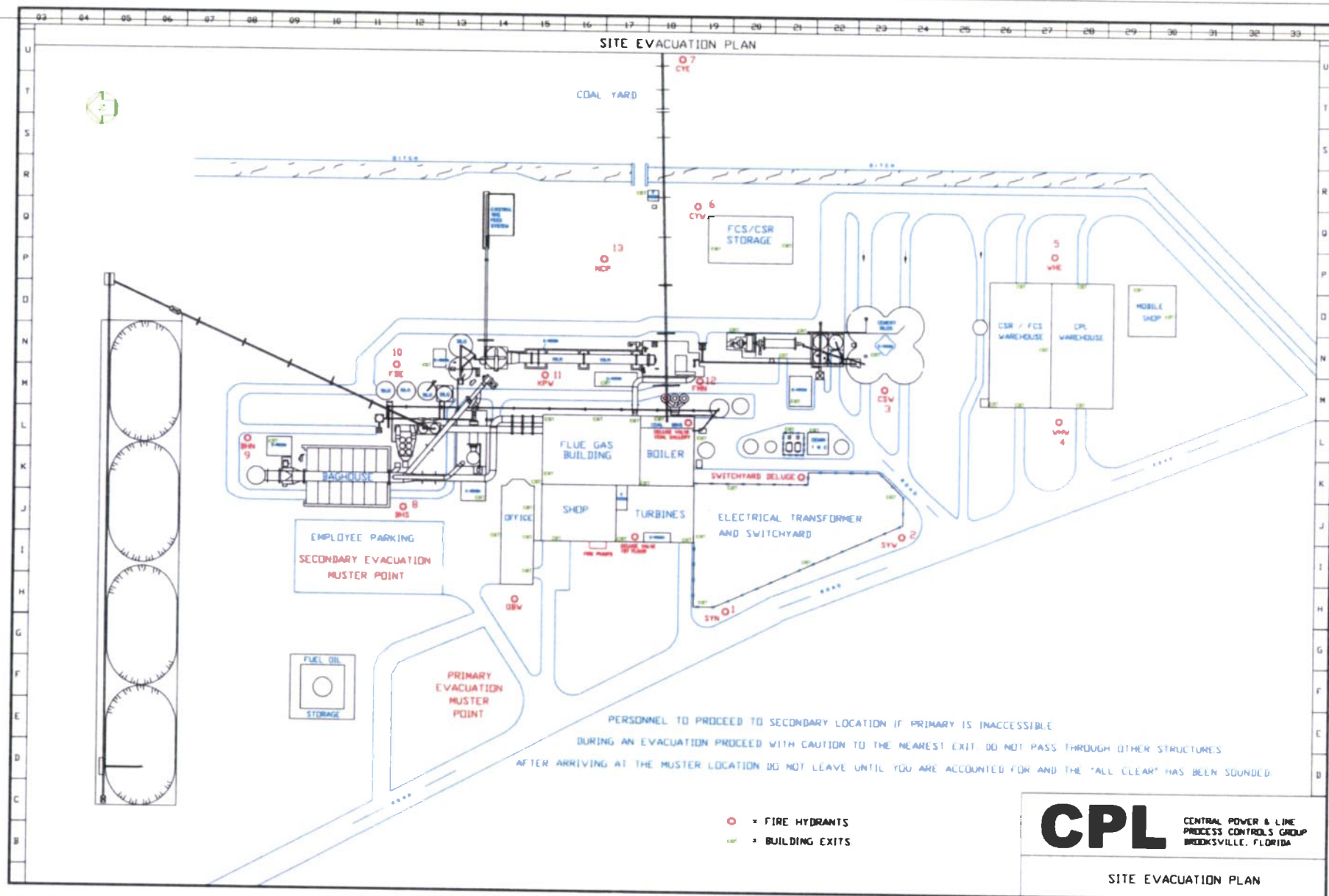
Inspection Notes

SPOKE TO JESSE SMITH, STILL WAITING ON HYDRANT LOCATIONS

Owner/Representative:
Inspector:

Please contact the inspector named for further assistance with this or any other matter.Failure to correct violations may result in fines and/or legal action in accordance with Hernando County Fire Rescue Ordinances and the Florida Fire Prevention Code.

Inspection Division Contact Info: Phone: 352-754-5829 Fax:352-754-4193


SITE EVACUATION PLAN
COAL YARD
FCS/CSR STORAGE
CSR / FCS WAREHOUSE
CPL WAREHOUSE
MOBILE SHOP
FLUE GAS BUILDING
BOILER
BAGHOUSE
SHOP
TURBINES
OFFICE
SWITCHYARD DELUGE
ELECTRICAL TRANSFORMER AND SWITCHYARD
EMPLOYEE PARKING
SECONDARY EVACUATION MUSTER POINT
PRIMARY EVACUATION MUSTER POINT
FUEL OIL STORAGE
PERSONNEL TO PROCEED TO SECONDARY LOCATION IF PRIMARY IS INACCESSIBLE
DURING AN EVACUATION PROCEED WITH CAUTION TO THE NEAREST EXIT. DO NOT PASS THROUGH OTHER STRUCTURES
AFTER ARRIVING AT THE MUSTER LOCATION DO NOT LEAVE UNTIL YOU ARE ACCOUNTED FOR AND THE "ALL CLEAR" HAS BEEN SOUNDED
= FIRE HYDRANTS
= BUILDING EXITS
CPL
CENTRAL POWER & LINE
PROCESS CONTROLS GROUP
BROOKSVILLE, FLORIDA
SITE EVACUATION PLAN

KOOGLER & ASSOCIATES, INC.
4014 NORTH WEST 13th STREET
GAINESVILLE, FL 32609-1923
www.kooglerassociates.com

ATTACHMENT C

307-17-24
September 29, 2017

CEMEX Construction Materials of Florida, LLC
Brooksville South Cement Plant – Waste Tire Processing Facility
FDEP Permit No. 22787-003-WT/02
Revised Closing Cost Estimate
September 2017

Note: Rule 62-711.700(2) and (3) was repealed on February 16, 2012. Therefore this section addresses the required closing cost estimates and financial assurance as required by the applicable sections of the current Rule 62-711.500(3).

The purpose of this submittal is to fulfill the requirements of Rule 62-711.500(3) F.A.C., to provide a re-estimate of the annual closing costs for waste tires for permit renewal. Koogler and Associates, Inc. is providing this revised closing cost estimate for the cost to remove, process, and dispose of the maximum amount of waste tires that is permitted to be stored at the facility at any time.

ESTIMATED CLOSING COSTS:

Waste Tire Disposal

The estimated cost to remove, process, and dispose of the maximum permitted amount of waste tires stored at the facility at any time (30,000 tires/300 tons) is as follows:

300 tons @ $125/ton = $37,500

This cost estimate is backed by a third party cost estimate from Liberty Tire Recycling, dated January 23, 2017 (attached).

Professional Engineer Certification

Signature

9/29/17
Date

Maxwell R. Lee, Ph.D., P.E.
Koogler and Associates, Inc.
4014 NW 13th Street
Gainesville, FL 32609
352-377-5822

Seal: STATE OF FLORIDA, MAXWELL R. LEE, LICENSE NO. 58091, PROFESSIONAL ENGINEER
No. 58091

Liberty
TIRE RECYCLING

9675 Range Line Road
Port Saint Lucie, FL 34987
Ph (772) 465-0477
Fax (772) 489-2124

January 23, 2017

Mr. Brent Steele
Environmental Manager
Cemex
10311 Cement Plant Road
Brooksville, FL 34601

Subject: Site Closure

Dear Mr. Steele,

As I indicated, Liberty Tire Recycling is prepared to load, transport, process and dispose of up to 240 tons in the event of site closure. This proposal pertains to whole passenger tires but does not cover off road tires (forklift, tractor, loader, grader etc.).

- The cost to load, transport, process and dispose would be One Hundred twenty five dollars per ton. Please note that this proposal covers the entire cost of handling the subject tires.

If you have any further questions or need any additional information please let me know.

Sincerely,

Phil Tuohy

Phil Tuohy
Region Manager - FL

Cell (863) 860-2436

February 3, 2017

Electronic Submittal

Ms. Melissa Madden
Environmental Specialist
Solid Waste
Florida Department of Environmental Protection
Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Re: CEMEX Construction Materials Florida, LLC – Brooksville **South** Cement Plant
Waste Tire Processing Facility, **2017** Financial Assurance Cost Estimate
FDEP Permit No. 22787-003-WT/02, Site Certification PSA 82-17

Dear Ms. Madden:

The above referenced facility has experienced no changes the management of waste tires and is operating in compliance with the permit requirements. The maximum quantity of tires allowed to be stored on site is 300 tons. The anticipated disposal cost for the maximum storage quantity is calculated as follows:

2016 Disposal Cost Estimate = $35,211.47
FDEP Inflation Multiplier **2017** = 1.009
2017 Disposal Cost Estimate (1.009 x $35,211.47) = $35,528.37
Current Bond Amount - $58,440.00, Travelers Bond No. 105316798

Should you have any questions and/or comments or require additional information, please contact me at 352-799-7881, ext. 109, or brentc.steele@cemex.com.

Respectfully,

Brent Steele
Environmental Manager

pc: Alberto Calleros, Plant Manager

Brooksville South Plant
10311 Cement Plant Rd, Brooksville, FL 34601 , (352) 799-7881, (352) 799-6088

Print Form Reset 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 DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: CEMEX Brooksville South Cement Tire Processing Facility WACS ID: 40778
Permit Application or Consent Order No.: Renewal of 22787-003-WT/02 Expiration Date: 12/03/2017
Facility Address: 10311 Cement Plant Road; Brooksville, FL 34601
Permittee or Owner/Operator: CEMEX Construction Materials Florida, LLC
Mailing Address: 10311 Cement Plant Road; Brooksville, FL 34601

Latitude: 28 ° 35 ' 00 " Longitude: 82 ° 25 ' 53 "
Coordinate Method: Degrees/Minutes/Sec Datum: WGS84 (assumed)
Collected by: source: GoogleEarth 3/17/2017 Company/Affiliation: N/A

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Total disposal unit acreage included in this estimate: Closure: N/A Long-Term Care: N/A

Facility type: (Check all that apply) ☐ Class I ☐ Class III ☐ C&D Debris Disposal ☐ Other: N/A

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

☐ Letter of Credit* ☐ Insurance Certificate ☐ Escrow Account
☐ Performance Bond* ☐ Financial Test ☐ Form 29 (FA Deferral)
☒ Guarantee Bond* ☐ Trust Fund Agreement

* - Indicates mechanisms that require the use of a Standby Trust Fund Agreement

Northwest District
160 Government Center
Pensacola, FL 32502-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-807-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

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

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

Southeast District
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 Department approved closing cost estimate dated: _____

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 Department approved long-term care cost estimate dated: N/A

Latest Department Approved Annual **Long-Term Care** Cost Estimate:		Current Year Inflation Factor, ***e.g. 1.02***		Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____	×	_____	=	_____

Number of Years of Long Term Care Remaining: × _____

Inflation Adjusted Long-Term Care Cost Estimate: = _____

Signature by: ☐ **Owner/Operator** ☒ **Engineer** (check what applies)

Signature

Mawell R. Lee, Ph.D., P.E.
Name & Title

9/29/17
Date

352-377-5822
Telephone Number

4014 NW 13th Street
Address

Gainesville, FL 32609
City, State, Zip Code

mlee@kooglerassociates.com
E-Mail Address

MAXWELL R. LEE LICENSE No. 58091 STATE OF FLORIDA PROFESSIONAL ENGINEER

IV. ESTIMATED CLOSING COST (check what applies)

☒ **Recalculated Cost Estimate** ☐ **New Facility Cost Estimate**

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

Description	Unit	Number of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells	**(Do not include wells already in existence.)**			
	EA	_____	_____	_____
			Subtotal Proposed Monitoring Wells:	_____
2. Slope and Fill (bedding layer between waste and barrier layer):				
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	_____	_____	_____
Synthetics - GCL	SY	_____	_____	_____
Synthetics - Geonet	SY	_____	_____	_____
Synthetics - Other (explain) _____	_____	_____	_____	_____
			Subtotal Cover Material:	_____
4. Top Soil Cover:				
Off-Site Material	CY	_____	_____	_____
Delivery	CY	_____	_____	_____
Spread	CY	_____	_____	_____
			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 Stormwater Control System:	_____

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA			
Pipe and Fittings	LF			
Monitoring Probes	EA			
NSPS/Title V requirements	LS	1	$0.00	
			Subtotal Passive Gas Control:	
8. Active Gas Extraction Control:				
Traps	EA			
Sumps	EA			
Flare Assembly	EA			
Flame Arrestor	EA			
Mist Eliminator	EA			
Flow Meter	EA			
Blowers	EA			
Collection System	LF			
Other (explain) _____				
			Subtotal Active Gas Extraction Control:	
9. Security System:				
Fencing	LF			
Gate(s)	EA			
Sign(s)	EA			
			Subtotal Security System:	
10. Engineering:				
Closure Plan Report	LS	1	$0.00	
Certified Engineering Drawings	LS	1	$0.00	
NSPS/Title V Air Permit	LS	1	$0.00	
Final Survey	LS	1	$0.00	
Certification of Closure	LS	1	$0.00	
Other (explain) _____				
			Subtotal Engineering:	

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	Contract Management		Quality Assurance		
P.E. Supervisor					
On-Site Engineer					
Office Engineer					
On-Site Technician					
Other (explain)					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1		
			Subtotal Professional Services:	

Subtotal of 1-11 Above: _____

12. Contingency 0 % of Subtotal of 1-11 Above _____

Subtotal Contingency: _____

Estimated Closing Cost Subtotal: _____

Description	Total Cost
13. Site Specific Costs	
Mobilization	
Waste Tire Facility	$37,500.00
Materials Recovery Facility	
Special Wastes	
Leachate Management System Modification	
Other (explain) _____	
_____ Subtotal Site Specific Costs:	$37,500.00

TOTAL ESTIMATED CLOSING COSTS ($): $37,500.00

V. ANNUAL COST FOR LONG-TERM CARE

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

(Check Term Length) ☐ 5 Years ☐ 20 Years ☐ 30 Years ☐ Other, ___ Years

Notes: 1. Cost estimates must be certified by a professional engineer.

2. Cost estimates based on third party suppliers of material, equipment and labor at fair market value.

3. In some cases, a price quote in support of individual item estimates may be required.

All items must be addressed. Attach a detailed explanation for all entries left blank.

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Groundwater Monitoring:	
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Surface Water Monitoring:	
3. Gas Monitoring [62-701.400(10)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
			Subtotal Gas Monitoring:	
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]				
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
Other (explain) _____	_____			
_____			Subtotal Leachate Monitoring:	

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF			
Sumps, Traps	EA			
Lift Stations	EA			
Cleaning	LS	1		
Tanks	EA			

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
Impoundments				
Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems				
Floating Aerators	EA			
Spray Aerators	EA			
Disposal				
Off-site (Includes transportation and disposal)	1000 gallon			
			Subtotal Leachate Collection / Treatment Systems Maintenance:	
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF			
Replacement	EA			
Abandonment	EA			
			Subtotal Groundwater Monitoring Well Maintenance:	
7. Gas System Maintenance				
Piping, Vents	LF			
Blowers	EA			
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS	1		
			Subtotal Gas System Maintenance:	
8. Landscape Maintenance				
Mowing	AC			
Fertilizer	AC			
			Subtotal Landscape Maintenance:	
9. Erosion Control and Cover Maintenance				
Sodding	SY			
Regrading	AC			
Liner Repair	SY			
Clay	CY			
			Subtotal Erosion Control and Cover Maintenance:	
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1		
			Subtotal Storm Water Management System Maintenance:	
11. Security System Maintenance				
Fences	LS	1		
Gate(s)	EA			
Sign(s)	EA			
			Subtotal Security System Maintenance:	

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	1		
			Subtotal Utilities:	
13. Leachate Collection/Treatment Systems Operation				
Operation				
P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR			
Materials	LS	1		
		Subtotal Leachate Collection/Treatment Systems Operation:		
14. Administrative				
P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
OnSite Technician	HR			
Other				
			Subtotal Administrative:	
			Subtotal of 1-14 Above:	
15. Contingency		% of Subtotal of 1-14 Above		
			Subtotal Contingency:	

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
			Subtotal Site Specific Costs:	
			ANNUAL LONG-TERM CARE COST ($ / YEAR):	
			Number of Years of Long-Term Care:	
			TOTAL LONG-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(4), F.A.C.

Signature

4014 NW 13th Street
Mailing Address

Maxwell R. Lee, Ph.D., P.E.
Name and Title (please type)

Gainesville, FL 32609
City, State, Zip Code

9/29/17
Date

mlee@kooglerassociates.com
E-Mail address (if available)

58091
Florida Registration Number
No. 58091 (please affix seal)

Telephone Number

MAXWELL R. LEE LICENSE STATE OF FLORIDA PROFESSIONAL ENGINEER

VII. SIGNATURE BY OWNER/OPERATOR

Signature of Applicant

10311 Cement Plant Road
Mailing Address

Alberto Calleros - Plant Manager
Name and Title (please type)

Hernando, FL 34601
City, State, Zip Code

E-Mail address (if available)

352-799-7881
Telephone Number

APPENDIX E

List of Environmental Permits

CEMEX Construction Materials Florida, LLC - CEMEX Brooksville South Cement Plant				
Permit Type and Number	**Issued To**	**Issued Date**	**Expiration Date**	**Issued By**
Air Construction Permit 0530021-068-AC	CEMEX Construction Materials Florida, LLC	24-Jul-17	31-May-19	FDEP
Air Construction Permit 0530021-067-AC	CEMEX Construction Materials Florida, LLC	20-Apr-17	20-Apr-22	FDEP
Air Construction Permit 0530021-066-AC	CEMEX Construction Materials Florida, LLC	4/7/2017	12/31/2017	FDEP
Air Construction Permit 0530021-064-AC	CEMEX Construction Materials Florida, LLC	7-Apr-17	31-Jul-18	FDEP
Title V Operation 0530021-063-AV	CEMEX Construction Materials Florida, LLC	17-Jul-17	3-May-18	FDEP
Air Construction Permit 0530021-062-AC	CEMEX Construction Materials Florida, LLC	2-Dec-16	2-Dec-21	FDEP
Solid Waste Permit - Alternative Fuels 22787-004-SO/31	CEMEX Construction Materials, Florida, LLC	7-Oct-13	17-Oct-18	FDEP
Power Plant Siting Act, PA 82-17O	CEMEX Construction Materials Florida, LLC & **CPL**	13-Dec-05	13-Dec-15	FDEP
Special Exception Use Permit Petition SE-05-04	CEMEX Construction Materials Florida, LLC	14-Feb-05	N/A	HCBCC
Waste Tire Processing Facility - *Previous Permit No. 22787-003-WT,* Facility ID No. SWD-27-40778. Currently permitted through the Site Certification PA 82-170P	CEMEX Construction Materials Florida, LLC	3-Dec-12	12/3/2017 - *To be renewed through this process*	FDEP

FDEP - Florida Department of Environmental Protection

HCBCC - Hernando County Board of County Commissioners