

# Florida Department of Environmental Protection

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

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

June 30, 2009

Mr. Abele D. Barreiro Barreiro Concrete Materials, Incorporated 9409 Northwest 109<sup>th</sup> Street Medley, Florida 33178

Dear Mr. Barreiro:

This is to acknowledge that your notification of intent to use the authority of Rule 62-210.310 to operate your **Concrete Batching Plant** facility was received on May 28, 2009. We have assigned ARMS No. <u>0251084-003</u> to this facility.

As you know, pursuant to Florida Statutes section 403.814, authority to operate under general permits commences thirty (30) days after receipt of the registration form unless you have been notified by this office that your facility has not shown entitlement to operate pursuant to the rule provisions.

For your information, authority to operate pursuant to Rule 62-210.310 expires after five (5) years. Therefore, a new registration form must be received no later than five (5) years after the date your notice was received as indicated above. If your general permit rule conditions require testing, such testing must be completed within the time frame specified in the rule.

If you have any additional questions, please contact Dickson Dibble at 850/921-9586.

Sincerely,

Sandra F. Veazey, Chief
Bureau of Air Monitoring

and Mobile Sources

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# CONCRETE BATCHING PLANT AIR GENERAL PERMIT REGISTRATION FORM

#### Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

Registration Type OL 3/06 7 - 003
Check one:
INITIAL REGISTRATION - Notification of intent to:  Construct and operate a proposed new facility.  Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).
RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:  Continue operating the facility after expiration of the current term of air general permit use.  Continue operating the facility after a change of ownership.  Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.
Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only
If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.  All existing air operation permits for this facility are hereby surrendered upon the effective date of this air
general permit; specifically permit number(s):
No air operation permits currently exist for this facility.
General Facility Information
<u>Facility Owner/Company Name</u> (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)
BARREIRO CONCRETE MATERIALS INC.
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.)
Not Applicable - Only one Facility
Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)  Street Address: 9409 NW 109th Street
City:Medley County:Dade Zip Code:33178
Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility) Not Applicable.

DEP Form No. 62-210.920(2)(b) Effective: January 10, 2007

Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: AMERICO BARREIRO, President

Owner/Authorized Representative Mailing Address

Organization/Firm:BARREIRO CONCRETE MATERIALS INC.

Street Address:9409 NW 109th Street

City:Medley

County:Dade

Zip Code:33178

Owner/Authorized Representative Telephone Numbers

Telephone:(305) 258-7004 - Ext. No. 224

Fax:(305) 258-1030

Cell phone (optional):(305) 773-3188

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: Abele D. Barreiro

Facility Contact Mailing Address

Organization/Firm:BARREIRO CONCRETE MATERIALS INC.

Street Address:9409 NW 109th Street

City:Medley

County:Dade

Zip Code:33178

Facility Contact Telephone Numbers

Telephone: (305) 258-7004 - Ext. No. 224

Fax:(305) 258-1030

Cell phone (optional):(786) 255-3051

**Owner/Authorized Representative Statement** 

This statement must be signed and dated by the person named above as owner or authorized representative I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.

Signature

MAY 20TH 2009

Date

Type of Facility		
Check one:		
⊠ Stationary Facility	Relocatable Facility	
Type(s) of Reasonable Precautions Used	to Prevent Unconfined Emissions	
Check all precautions to be used for the i	management of roads, parking areas,	stock piles and yards:
<ul><li>✓ Pave Roads</li><li>✓ Maintain Roads/Parking/Yards</li><li>✓ Remove Particulate Matter</li></ul>	<ul><li>☑ Pave Parking Areas</li><li>☐ Use Water Application</li><li>☐ Reduce Stock Pile Height</li></ul>	<ul><li>☑ Pave Yards</li><li>☑ Use Dust Suppressant</li><li>☑ Install Wind Breaks</li></ul>
Check all precautions to be used for the i	management of drop points to trucks	:
⊠ Spray Bar	⊠ Chute	☐ Enclosure
	Partial enclosure	
Description of Reasonable Precautions		
Below, or as an attachment to this form, prunconfined emissions at the facility.	rovide details of all types of reasonal	ple precautions to be used to prevent
BARREIRO CONCRETE MATER	IALS INC. has installed the fo	ollowing control equipment:
ES 168 B Stanley dust Collector	- (1 Unit)	
2. SV-170 Filter Vent Dust Collect	or - (1 Units)	
3. SOS 6100 Dust Collecton	- (1 Unit)	
4. SV-20 Vent	(2 Units)	
Enclosed please find copy of the co	mpany's Level I Quality Contr	ol Program:
- "Storage Facilities for Raw Materi	• • •	
·		
In the event of any spill, leak BCM	I has implemented the following	ng safety practices:
SPILL, LEAK AND DISPOSAL P	RACTICES	
Steps to Be Taken if Material Is Religenerated, may overexpose cleanup material and/or use of respiratory proposed material. Flush away with we Waste Disposal Method: Dispose of state, and local laws and regulations Precautions to Be Taken in Handling should be avoided.  Other Precautions: Ventilation and modifying hardened concrete.	personnel to respirable silica a rotective equipment may be ne ater or break up into manageal f waste materials only in accor s. g and Storing: Prolonged expo	and dust. Wetting of spilled cessary. Do not dry sweep ble sized units. dance with applicable federal, osure of skin to wet concrete

DEP Form No. 62-210.920(2)(b) Effective: January 10, 2007



9409 N.W. 109th Street Medley, Florida 33178 Phone: (305) 805-0095 Fax: (305) 805-0080

#### 105-3.4 Storage Facilities for Raw Materials:

#### Aggregate:

Received by truck will be unloaded and stockpiled into properly labeled ground storage. Ground Storage consists of three concrete walls and concrete base or sufficient enough space or beams to prevent contamination. Loader operator will be instructed to avoid contamination between materials in bins and underlying materials.

Aggregates are moved by front-end loaders to ground level hopper with belt feed to batch plant bins, material is gravity fed from storage bins to scale and introduced into mixer.

#### Cementations Materials:

Are received by trucks tanker and pneumatically conveyed into a locked, watertight properly labeled silo fill tube. To prevent contamination and to assure that the right cementations materials are not going in the wrong silo. Cement is weighted and charged into the truck mixer with the aggregates by ribbon loading method.

Cementations material is discharged into the scale by gravity and auger fed method. Concrete is mixed and delivered in truck pneumatic discharge mixer.

#### Admix Materials:

Are delivered in a bulk tanker and pumped into properly labeled storage tanks.

Admix bottler are viewed by batch operator on camera and are located in a covered shed. Each bottle is identified. Electronic signal is sent to the batch computer and then to the dispensing bottle. Admixtures are discharged from dispensing bottle thru lines to mix with water and then into the mixer.



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Fax: (305) 805-0080

A fully automated PSI batch computer system weighs the designated mix. The batch system consists of load cells on cement and aggregate scales with digital display to the batch computer. Admixtures are introduced with the headwater into the mixer followed by introduction of aggregates and cementations materials.

Aggregate shall be maintained in a condition of total absorption and with some free moisture. As a minimum, batch weights shall be adjusted for a change in free moistures at any time there is a change of more than onehalf of one percent. Wetting coarse aggregate ground storage with water. Coarse aggregate shall be maintained in a condition of total absorption and with some free moisture. Coarse aggregate is delivered to the stockpiles and sprinkled continuously for 24 hours prior to use.

#### **Description of Facility**

Below, or as an attachment to this form, provide a description of the concrete batching plant operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

The facility is comprised of one (1) 837 BBL Silos for cement storage and (1) 550 BBL Silo for Cement and (1) 550 BBL for Fly Ash storage. Each Silo has a dedicated dust collector.

In addition, there are two cement materials scales that receives the cement prior to discharge into waiting concrete trucks for delivery. This units also have a dedicated dust collector SV20 - (one in each)

Based on a maximum unloading rate of 18tons/hour cement unloading rate and 3,120 operating hours/year (10 hours/day, 6 day/week and 52 weeks/year) the facility is capable of mixing a maximum of 264,282 Cubic Yards per year.

Fuel usage is on the order of 75,000 gallons of diesel fuel per year for company trucks and is the only fuel usage at the facility. No thermal unit, i.e. kiln or other material dryer, is used at the facility.

Based on the above operating hours and capacity the facility does not exceed the requirements for an Air General Permit.

See Attachment for BARREIRO CONCRETE MATERIALS INC. Description of control equipment.

DEP Form No. 62-210.920(2)(b) Effective: January 10, 2007

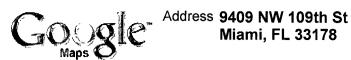


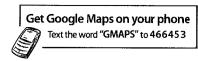
9409 N.W. 109th Street Medley, Florida 33178 Phone: (305) 805-0095

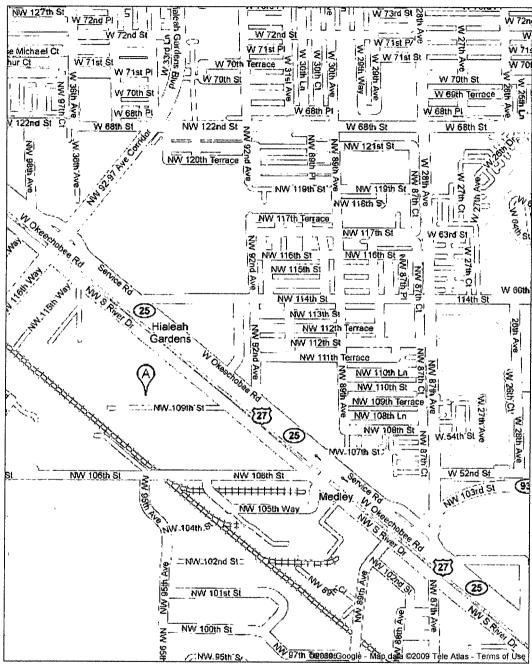
Fax: (305) 805-0080

#### **Detailed Description of Control Equipment**

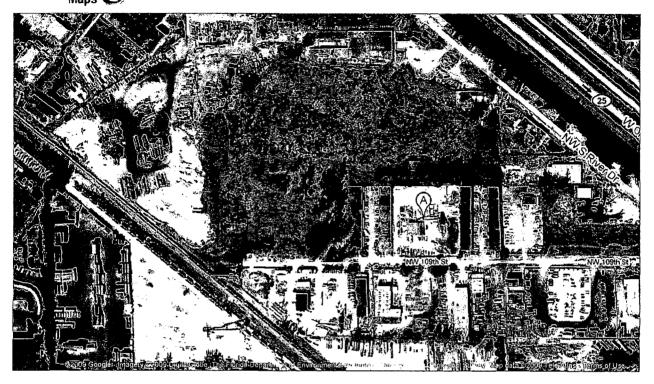
Control Equipment	Quantity	Description
ES 168 B Stanley Dust	1	Model: Electrostatic 138; 8" (Diameter) x 69" (Long) Silicon-coated
Collector		Dracon bags (14 in number); 168 Sq Ft Silicon connections to
		scale are via gravity feed and Screw Conveyor
SV-170 Filter Vent Dust	1	Model SV-170; 7" x 72" Polyester/Dacron fiber bags (16 in number)
Collector		170 Sq Ft.
•		Temperature range: 220-240 F; Recovery: 99.6% to one micron; Efficiency 99.6%
SOS 6100 Dust Collector with SV-20 Vent	1	Cement Batcher Dust Collector (Model SOS 6100; 18 Cartridges with 2700 Sq Ft filter area.
		8000 CFM at 8" Static Pressure with 20 HP Motor)
	2	Cement Batcher Vent (Model SV-20; 115 pounds with
		dimensions: 22.75" High x 37" Long x 9.5" Wide
		Mounts on top of Cement Batcher)

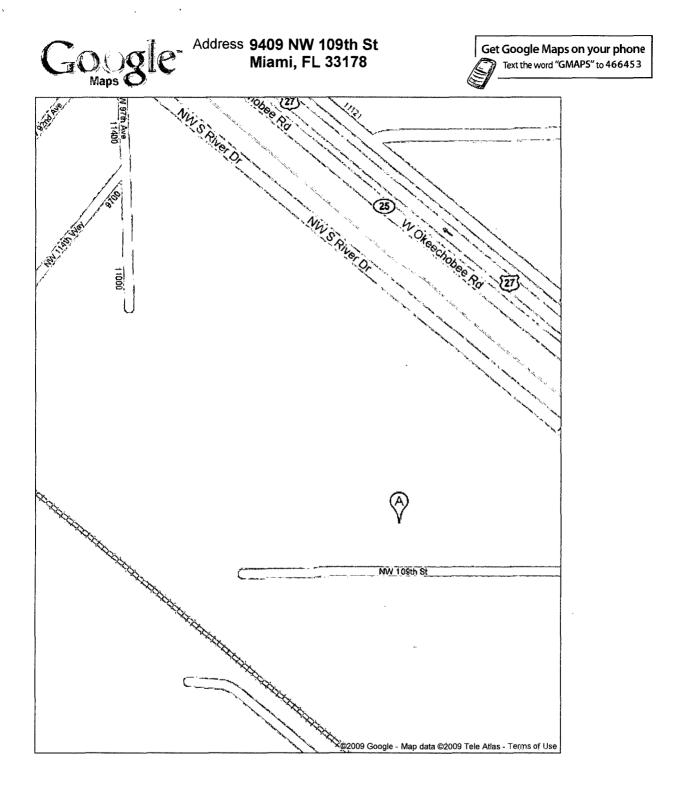






Google Address





# South Florida Environmental Services

#### VISIBLE EMISSIONS (METHOD 9) OPACITY TEST REPORT ON THREE SILO UNITS

**PREPARED FOR:** 

Barreiro Concrete Materials, Inc.

9409 NW 109<sup>th</sup> Street Medley, FI 33178

**CONCERNING:** 

Visible Emissions Test Program

Barreiro Concrete Materials, Inc. 9409 NW 109<sup>th</sup> Street

9409 NW 109<sup>th</sup> Stree Medley, Fl 33178 December 18, 2008

PREPARED BY:

South Florida Environmental Services, LLC

2257 Vista Parkway, Suite 25 West Palm Beach, Florida 33411

**SFES REPORT #:** 

08-592

# South Florida Environmental Services

#### **VISIBLE EMISSIONS TEST REPORT**

#### PREPARED FOR:

Barreiro Concrete Materials, Inc. 9409 NW 109<sup>th</sup> Street Medley, FI 33178

#### **CONCERNING:**

Visible Emissions Test Program 9409 NW 109<sup>th</sup> Street Medley, FI 33178

#### PREPARED BY:

South Florida Environmental Services, LLC 2257 Vista Parkway, Suite 25 West Palm Beach, Florida 33411

I hereby certify that the information contained in this report is true and accurate to the best of my knowledge.

Jodi Beck

Director of Technical Services

12/19/08 Date

#### COMPENDIUM:

On December 18, 2008, South Florida Environmental Services performed compliance testing for visible emissions on behalf of Barreiro Concrete Materials Inc. at their facility located at 9409 NW 109<sup>th</sup> Street in Medley, Florida. Testing was conducted on cement storage silos.

During the compliance test, the silos were loaded from a tanker truck at approximately 10 PSI. Each silo was observed for a 30-minute period.

All testing and data reduction were conducted in accordance with EPA Method 9 as found in 40 CFR 60 Appendix A, as amended.

Dr. John Jallah of South Florida Environmental Services was the certified visible emissions evaluator at the time of testing. Mr. Abele Barreiro was responsible for facility operations. There were no representatives from the Miami-Dade DERM present.

The results are summarized in Table 1, and show that the facility is operating within compliance of its permit requirements.

Table 1: Summary of Results

Location	Highest Six Minute Average	Overall Opacity	Limiting Standard
East Silo	0.0 %	0.0%	5%
Middle Silo	0.0 %	0.0%	5%
West Silo	0.0 %	0.0%	5%

Barreiro Concrete Materials, Inc. Visible Emissions Test Report

## VISIBLE EMISSIONS TEST REPORT

Field Data Sheet

# EPA

# VISIBLE EMISSION OBSERVATION FORM 1

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#### **EPA**

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## **EPA**

# VISIBLE EMISSION OBSERVATION FORM 1

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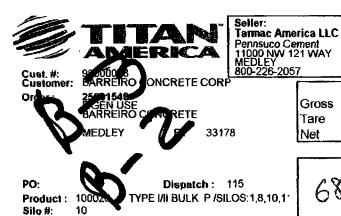
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5	0	0	0	(	
6	0	0	0	(رے	
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9	0	0	(2)	2	
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13	0	0	0	()	
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27	0	0	0	0	
28	0	2)	0	0	
29	0	$\mathcal{O}$	0	0	
30	0	0	0	0	,
Observer	e Norna (	Drint)	1		

- 1	
Observer's Name (Print)	. Jallah
Observer's Signature (II) allox	12/18/08
Organization SFC5,	
Certified By FIR 7/8/0	8 Court Plant de
	17 Profession 18 19 19 19 19 19 19 19 19 19 19 19 19 19

Barreiro Concrete Materials, Inc. Visible Emissions Test Report

VISIBLE EMISSIONS TEST REPORT Field Loading Sheet



<u>.                                    </u>				
	Pounds	Tons	Metric	
Gross	79620	39.81	36.12	
Tare	27120	13.56	12.30	
Net	52500	26.25	23.81	

12/18/2008 11:17:36AM 238238

wash exposed

28.25 Ton

6812641

Today: 77.86 Loads: 3

Time In: 11:03:03AM

Weighmaster: Auto D JWS Automi

Driver:

Seal #:

BARREIRO BARREIRO CONCRETE

130

Carrier:

Vehicle:

Scale:

Trailer#: 130

130

3

Customer:



130

Seal #:

Vehicle:

Scale:

Driver:

Trailer#: 130

130

3

 Pounds
 Tons
 Metric

 Gross
 79620
 39.81
 36.12

 Tare
 27120
 13.56
 12.30

 Net
 52500
 26.25
 23.81

**26.25** Ton

12/18/2008 11:17:36AM **238238** 

6812641

Today: 77.86 Loads: 3

Time In: 11:03:03AM

Weighmaster: Auto ID JWS Automi

Customer:

المالية تهدوا والمناب والمسار والأوار التعليم

wash exposed Lucal attention



Tarmac America LLC Pennsuco Cement 11000 NW 121 WAY MEDLEY 800-226-2057

12/18/2008 9:25:48AM

238204

Ton

25.85

CONCRETE CORP

NCRETE FL 33178

	Pounds	Tons	Metric	
Gross	78920	39.46	35.80	
Tare	27220	13.61	12.35	
Net	51700	25.85	23.45	

**Product: 100026** 

Silo#: 10

BARREIRO BARREIRO CONCRETE Carrier: 130

Vehicle:

PO:

130

Traiter#: 130 Scale: 3

Driver:

Dispatch: 115

TYPE I/II BULK P /SILOS:1,8,10,11

Today:

51.61

Loads: 2

9:08:25AM Time In:

Weighmaster: Auto ID - JWS Automa

Customer

skin areas promptly with water. If any cement or cement mixtures get into the eye, runse invinedialely and repeatedly with water and get prompt medical attention.

Keep out of reach of children.

Barreiro Concrete Materials, Inc. Visible Emissions Test Report

**VISIBLE EMISSIONS EVALUATOR CERTIFICATE** 

# VISIBLE EMISSIONS EVALUATOR

This is to certify that

# JOHN JALLAH

met the specifications of Federal Reference Method 9 and qualifies as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh; NC. This certificate is valid for six months from date of issue

### 364701

CERT NUMBER

7/9/2008.

DATE OF SCHOOL

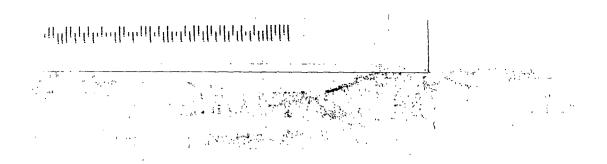
1/8/2009

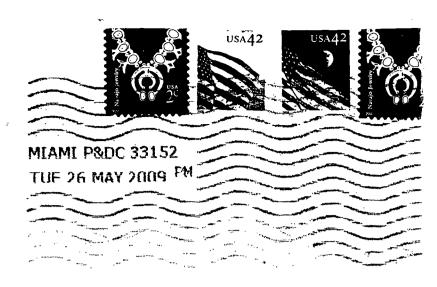
CERTIFICATION EXPIDATE

WEST PALM BEACH, FL

SCHOOL LOCATION

JAL641932







25440 S.W. 140 Avenue Princeton, Florida 33032

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION RECEIPTS PO BOX 3070
TALLAHASSEE FLROIDA 32315-3070



#### Florida Department of Environmental Protection Cash Receiving Application (CRA) Cashlisting by Deposit #: 291543 thru 291543 Printed: 5/28/2009 4:00:03 PM - Page 11

" All WorldCille

Cashlisting: Deposit No:

76237 291543

Cashlist Area:

Date Deposited: **05/28/2009** 

3755

Description: DIV OF AIR RESOURCES MGMT.

Contact: E. WALKER

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Duice	hilo	Sources
R.	MODILE	JUL.
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Object	Transmittal	Dep DDN		Pre- Numbered Receipt	Name	Check Number	Payment Amount	Reference Account	Payment Number	Remittance Number	Fund	Grant
002222	54878		668938		AJAX PAVING INDUSTRIES OF FLOR	564592	\$500.00	7775592001	952870	836746	PFTF	
	54878		668940		NORTH FLORIDA LUMBER, INC	1840	\$7,500.00		952873	836749	PFTF	
					Object Code 002222 Subtotal:		\$8,000.00					
002272	54904		669039		GUSTAFSON CONSTRUCTION CORP	33261	\$100.00		953011	836880	PFTF	
	54913	497114	669096		CEMEX	21842560	\$100.00		953128	836962	PFTF	
	54913	497117	669099		OLDCASTLE COASTAL	875041783	\$100.00		953130	836965	PFTF	
	54913 P	497121	669103		BARREIRO CONCRETE MATERIALS IN	5761	\$100.00	025/084-003 6/5/2009-CCB	953135	836969	PFTF	
-					Object Code 002272 Subtotal:		\$400.00	V/S/C				
002278	54913	497111	669093		HALEAKALA CONSTRUCTION, INC.	52055	\$300.00	53685	953126	836959	APCTF	
	54913	497112	669094		CROSS REMEDIATION, INC.	18029	\$200.00	53552	953127	836960	APCTF	
					Object Code 002278 Subtotal:		\$500.00					

Cashlisting 76237 Total:

\$8,900.00

5/22/2009

5761

100.00

100.00

**Operating Account**