



Jeb Bush  
Governor

# Department of Environmental Protection **FILE**

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

David B. Struhs  
Secretary

DEC 11 2000

Mr. James S. Jenkins, III  
Rinker Materials Corporation  
P.O. Box 24635  
West Palm Beach, FL 33416

Dear Mr. Jenkins,

The attached Soil Thermal Treatment Facility Inspection Report documents a routine inspection of your facility at 1200 NW 137th Avenue, Miami, FL, by the Department on September 14, 2000. During this inspection, as noted on the attached inspection report, cracks/gouges were noted in the floor of the soil storage building in the south central portion and wearing of the concrete floor surface, exposing rebar, apparently from the action of heavy equipment, was noted in other floor areas. Based on a preliminary investigation by Mr. Emery, it does not appear the cracks penetrate the floor thickness; however, Mr. Emery indicated he is developing a plan to resurface the floor to eliminate the potential for leaching. No other problems were noted during this inspection.

If you have any questions or need further information, please contact Lee Martin at 561-681-6676.

Sincerely,

Paul Alan Wierzbicki, P.G.  
Waste Cleanup Supervisor

Atch: STTF Inspection dated 9/14/00

cc: Robert Johns, Paul Lasa, MDERM, Miami w/atch  
Tom Conrardy, Zoe Kulakowski, DEP/BWC, Tallahassee w/atch  
Jeff Smith, DEP/WPB w/atch  
Don Emery, Mike Vardeman, Rinker Materials, Miami w/atch



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# Department of Environmental Protection

Southeast District  
P.O. Box 15425  
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## SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1. TYPE INSPECTION:        COMPLAINT   X   ROUTINE        FOLLOW-UP        PERMITTING

2. FACILITY NAME Rinker Portland Cement Corp.

DER/EPA ID FLD981758485 COMET SITE ID 69992

3. ADDRESS 1200 NW 137th Ave, Miami, FL, 33182  
Mailing: P.O. Box 24635, West Palm Beach, FL 33416-4635

COUNTY Dade PHONE 305- 221-7645 DATE 9/14/00 TIME 10:30 am

4. TYPE OF FACILITY Thermal Soil Treatment Facility

5. **DESCRIPTION OF OPERATION:**

Facility Operations include limrock mining and contaminated soil processing to produce cement.

Rinker uses kilns fired by coal, natural gas, or used oil in production.

6. APPL. REGULATIONS:        62-2, F.A.C.   X   62-775, F.A.C.

7. **RESPONSIBLE OFFICIAL:** (Name and Title)

James Jenkins, Vice President

8. **SURVEY PARTICIPANTS AND PRINCIPAL INSPECTORS:**

*Lee Martin*

Lee Martin, FDEP

Don Emery, Rinker Materials

9. FACILITY LATITUDE 25°46'57" conf. LONGITUDE 80°25'20" conf. 8/93

10. TYPE OWNERSHIP: FEDERAL STATE COUNTY MUNICIPAL PRIVATE

11. NOTICE NO: SO13-290034 DATE ISSUED: 6/28/96 EXP. DATE: 6/7/2001  
SO13-300512 6/4/98 6/4/2002

Rev 8/18/94

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

A routine inspection was conducted at the Rinker Portland Cement Corporation's soil thermal treatment facility regulated pursuant to Chapters 62-775, 62-713, and 62-701, Florida Administrative Code (FAC). This facility operates a rotary kiln and utilizes the petroleum contaminated soil and coal tar contaminated soil in the manufacture of cement.

#### BACKGROUND INFORMATION:

Rinker was issued a General Permit #SO13-290034 to operate a soil thermal treatment facility on June 28, 1996 which expires on June 7, 2001. The Rinker facility was operating as an existing facility as defined in 62-775.200, FAC prior to the effective date of this rule. Additionally, the facility treats coal tar contaminated soil under a Solid Waste Material Recovery Facility Permit #SO13-300512 issued June 4, 1997, which expires on June 4, 2002. A complete process description is provided in the Rinker permit application; however, the process was reviewed at the inspection as follows:

According to Don Emery, prior to accepting any soil for thermal treatment pursuant to 62-775 and 62-701, FAC, Rinker requires a soil analysis profile. Based on this profile, and specific conditions from DEP and Metro Dade Department of Environmental Resources Management (DERM), soils are brought by truck to the soil storage facility. DERM has granted approval authority to Rinker, subject to specific conditions in their DERM solid waste permit. Rinker claims to accept no hazardous wastes as defined in 40 CFR Part 261.

Rinker has operated a materials substitution program since 1991. This program researches and evaluates different alternative materials for use as raw materials in the production of cement or for use as an alternative fuel source in the kilns. Two alternative materials currently in use include the substitution of petroleum contaminated soils for clean silica sand and the substitution of "on-spec" waste oil for fuel oil in kiln burners. Other alternative material substitutions under discussion and/or evaluation for possible future use include: (1) substitution of oily waste water for part of the slurry makeup water, (2) burning tires for fuel, (3) replacing FP&L slag with other power plant ashes such as ash from MSW incinerators, (4) using spent petroleum catalyst as an aluminum source, (5) blending oily sludges with contaminated soils, and (6) treatment of other petroleum contaminated materials.

Rinker has received approval for burning old tires as a fuel and iron supplement. Previously the tires were injected whole, two at a time, through a patented system during each rotation of the kiln; however, the new dry process vertical kiln system recently became operational and it is not clear how the tires might be handled in the future.

Rinker has received a determination that the use of spent petroleum catalyst as an aluminum source is not regulated under 62-775, F.A.C.; however, the characteristics provided would make storage on the bare ground inappropriate. Several loads (10-12) of spent catalyst from a Hess operation in Puerto Rico were received in the past, but handling problems due to the extremely dusty nature of the material has delayed subsequent shipments while a pneumatic off-loading and handling system is being investigated.

Rinker has applied for and received a Solid Waste Material Recovery Facility Permit No. SO13-300512, which allows Rinker to accept and treat certain coal tar contaminated soils. Rinker first accepted coal tar contaminated soils from mid June-mid August 1997 and revised the treated soil reporting form to reflect the coal tar parameters. According to Mr. Emery, during this inspection period Rinker has not treated any coal tar contaminated soils.

Rinker has applied for an alternative procedure to allow processing of certain petroleum related sludges/residues and other soil like materials along with petroleum contaminated soil. This request has been approved under Alternate Procedure No. AP-STTF0036 with certain restrictions.

The afterburner system for the petroleum contaminated soils is in operation, the soils process through a preliminary kiln (stone dryer) with afterburner, then go through the primary, dry process, vertical cement kiln. Preliminary in house analysis of the soils, although not required, indicate the soils meet clean soil criteria for VOC's before they are processed through the cement kiln.

#### SOIL STORAGE FACILITY:

Incoming soils to be thermally treated by Rinker arrive by independent contractors via truck, are weighed, and taken to the Material Screening Building (MSB) for processing. Rinker has changed their policy concerning drum handling due to the increase in drill cuttings received in drums and the subsequent bottle neck caused in the off loading area. The drums are placed in the Northwest corner of the MSB and emptied as time permits and during this inspection all drums observed were located inside the building.

Once emptied the drums are then rinsed at the drum washing area and crushed for salvage. The rinse water is contained on site and the sediments are returned to the soil storage facility. The MSB located South of the railroad tracks became operational February 9, 1992 and consists of a 100' by 300' monolith concrete slab sealed to solid concrete walls on three sides with a concrete curb across the front. The MSB has an open front to accommodate trucks and equipment, enclosed sides, and a roof. The floor slopes to the southeast corner where a sump is located to collect any contaminated water from wind blown rain seeping through the contaminated soils. The leachate collection tank has been relocated outside the Southeast corner of the MSB. The tank is within a secondary containment structure and piping outside the facility is double-walled. An additional interior concrete curb sloping away from the Northeast front wall toward the interior of the MSB had been installed. An additional stem wall has been constructed along the Northeast front wall and rain gutters have been redirected after investigation following the December 1996 inspection. Mr. Emery indicated during this inspection that based on preliminary investigation and construction details of the floor, the cracks and gouges noted in the south central portion of the floor on the previous inspection do not penetrate the full thickness of the slab; however, he is developing a resurfacing plan to prevent any potential for leaching. This will continue to be checked in the future. The four groundwater wells off the corners of the MSB have flush mounted manhole lids with locking watertight caps.

The metal and plastics removed from the soils are collected for transport to the County landfill; Rinker should maintain receipts for proper disposal. The larger concrete debris screened out initially are taken to the rock crusher to be pulverized separately and mixed back in with the contaminated soils at the MSB. Spent oil filters are drummed and stored separately at the MSB and processed for recycling to Cliff Berry, Inc. A covered dumpster had been located in the Northeast corner of the MSB to allow collection of oily wastes/sludges which are mixed with the fuel oil and burned in the kiln, but was not present during this inspection.

#### RECORDKEEPING:

Rinker has received a Department alternative procedure approval (File No. AP-STTF001) for testing of contaminated soils. Rinker relies solely on the test results supplied by other labs; however, Rinker requires acknowledgment of a Department approved Quality Assurance plan from the labs supplying the data. Rinker performs spot checks of some samples. Rinker also performs groundwater analyses through their in-house laboratory, under a Department approved Quality Assurance Plan, for their Groundwater Monitoring Plan. A review of records for untreated soil for May 2000 indicated some batches of untreated soils were received which exceeded the clean soil criteria for metals; however, spot checks on some of these batches were made and blending records were provided as required by 62-775.400(4), FAC. Additionally, Rinker has received alternative procedure approval (File No. AP-STTF0051) on January 2000 for routine treatment of soils exceeding the Arsenic cleanup target level in Chapter 62-713, FAC, in the manufacture of cement. Rinker began treating low level PCB contaminated soils in April 1994 and developed a form to track the source, soil PCB content, quantity, PCB concentration, pounds PCB treated, and cumulative year to date PCB treated. No PCB contaminated soils were received during May 2000. Rinker began treating coal tar contaminated soils in mid-June 1997 and developed a form to track the required analytical data for the treated soils, no coal tar contaminated soils were processed during this inspection period. A review of treated soil (clinker) forms for Total analyses indicates the results from nine samples for Arsenic exceed the residential cleanup target level and for TCLP analyses indicates the results from ten samples for Barium, seven samples for Cadmium, four samples for Chromium, and six samples for Lead exceed the respective groundwater standard; however, all this material is stabilized in concrete rather than disposed of as clean soil. The remainder of the cleanup target level criteria in 62-713, FAC, was not exceeded.

#### SUMMARY:

The MSB provides for proper handling and storage of petroleum contaminated soils, low level PCB contaminated soils, coal tar contaminated soils, and certain other soil like materials and allows Rinker to process contaminated soils in an environmentally sound manner. No other signs of discharge were noted and all facility personnel were very cooperative.

EXHIBIT E  
Florida Department of Environmental Regulation  
STATIONARY SOIL THERMAL TREATMENT FACILITY  
INSPECTION REPORT

Name of Facility RINKER MATERIALS  
Location 1200 N.W. 137<sup>th</sup> AVE, MIAMI, FL  
General Permit No. SO13-290034 Date of Inspection 9/14/00  
Contact Person DON EMERY  
Person Completing Report LEE MARTIN

Instructions: Complete the appropriate spaces for each item listed below. Use comments space to provide additional information for each item. Additional paper may be used if necessary.

Yes No SITE SURVEY

- ✓      1. Does information provided on general permit notice of intent form coincide with actual facility?
- ✓      2. Is soil sampling procedure correct?
- ✓      3. Are monitoring wells properly installed (proper number and location)?
- ✓      4. Are monitor wells being properly sampled and analysed for required parameters?
- ✓      5. Is untreated soil stockpiled separately from treated soil and properly identified?
- ✓      6. Is untreated soil adequately covered by roofing?
- See comments      7. Do floors for storage appear to be properly constructed and in good condition?
- ✓      8. Are floors properly bermed to provide runoff control?
- ✓      9. Is a leachate collection system provided?

Yes No REPORTING FORMS

- ✓      10. Are untreated soil reporting forms being properly completed? starting date 5/2/00 end date 5/31/00
- ✓      11. Are treated soil reporting forms being properly completed? starting date 2/15/00 end date 7/31/00

12. Indicate frequency clean soil criteria is being met?
- 100 % TRPH - 10 mg/kg, or
  - \_\_\_\_\_ % TRPH - 50 mg/kg, PAH - 6 mg/kg, and VOH - 50 ug/kg
13. Indicate ranges and approximate median values of untreated soil analyses for the following parameters.
- TRPH BDL mg/kg to 72000 mg/kg, median 1013 mg/kg
  - VOA BDL mg/kg to 10400 mg/kg, median 475 mg/kg
  - Arsenic BDL mg/kg to 55 mg/kg
  - Barium 1.0 mg/kg to 981 mg/kg
  - Cadmium BDL mg/kg to 5.43 mg/kg
  - Chromium BDL mg/kg to 58 mg/kg
  - Lead BDL mg/kg to 210 mg/kg
  - Mercury BDL mg/kg to 0.23 mg/kg
  - Selenium BDL mg/kg to 10 mg/kg
  - Silver BDL mg/kg to 4.05 mg/kg
14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
- TRPH BDL mg/kg to BDL mg/kg, median BDL mg/kg
  - VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
  - Arsenic BDL mg/kg to 7.7 mg/kg
  - Barium 95 mg/kg to 1500 mg/kg
  - Cadmium BDL mg/kg to 6.5 mg/kg
  - Chromium 2.3 mg/kg to 181 mg/kg
  - Lead BDL mg/kg to 60 mg/kg
  - Mercury BDL mg/kg to BDL mg/kg
  - Selenium BDL mg/kg to 0.9 mg/kg
  - Silver BDL mg/kg to 8.1 mg/kg
  - \_\_\_\_\_ mg/kg to \_\_\_\_\_ mg/kg
  - \_\_\_\_\_ mg/kg to \_\_\_\_\_ mg/kg

Comments: THE FLOOR IN THE SOUTH CENTER PORTION OF THE SOIL STORAGE BUILDING DISPLAYED CRACKS AND THINNING DUE TO ABRASION FROM FRONT END LOADERS. MR. EMERY STATED THAT BASED ON PRELIMINARY INVESTIGATION & CONSTRUCTION DETAILS OF THE FLOOR, THE CRACKS DID NOT PENETRATE THE FULL SLAB. ADDITIONALLY, HE WAS DEVELOPING A PLAN TO RESURFACE THE AREA TO PREVENT THE POTENTIAL FOR LEACHING.

William L. Martin  
Signature

11/27/00  
Date

VOA	TRPH
0.1	13140
19	30
0.1	3380
0.1	25000
0.1	140
0.1	4473
0.1	1990
0.1	5580
0.1	53000
4000	1210
0.1	4.4
1420	4.4
0.1	1
650	22500
0.1	816
10400	72000
0.1	135
0.1	96
590	23000
2250	6380
1010	2300
0.1	16300
0.1	229
180	360
2283	2966
0.1	180
114	258
140	39
0.1	5790
0.85	12
654	66
0.85	88
1200	1660
9500	600

VOA		TRPH	
Mean	1012.159	Mean	7756.7
Standard Error	417.5228	Standard Error	2704.452
Median	0.475	Median	1013
Mode	0.1	Mode	4.4
Standard Deviation	2434.555	Standard Deviation	15769.53
Sample Variance	5927059	Sample Variance	2.49E+08
Kurtosis	10.22567	Kurtosis	9.33438
Skewness	3.228123	Skewness	2.971187
Range	10399.9	Range	71999
Minimum	0.1	Minimum	1
Maximum	10400	Maximum	72000
Sum	34413.4	Sum	263727.8
Count	34	Count	34

9/14/00 Inspection





June 14, 2000

Metropolitan Dade County  
Environmental Resource Management  
33 S.W. 2nd Avenue  
Miami, FL 33131

Attn: Mr. Paul Lasa

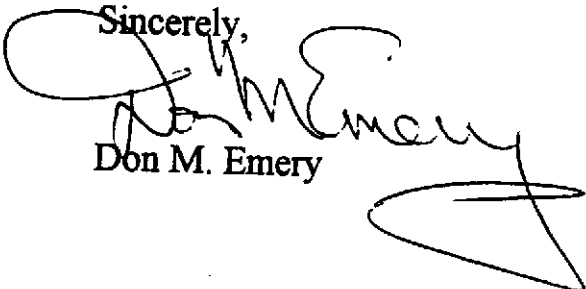
Dear Mr. Lasa:

Please find enclosed Rinkers May 2000 monthly report for petroleum contaminated soils received under permit # SW-01117-91.

The total volume received during May was 9,162 tons.

If you have any questions or comments, please call me at 305-225-1423.

Sincerely,

  
Don M. Emery

DE/mr  
enc.

M A Y 2000

REPORT

PERMIT #SW-01117-91

Month May Year: 2000

## Soil Thermal Treatment Facility Untreated Soil Reporting Form

Name of Facility: RUNKER MATERIALS CORP.  
Air Permit No.: A013-172164  
Soil Treatment Permit No.: SW-01117-97  
Stationary XXX or Mobile Facility:           

DER Form #	17-775.900(2)
Soil Thermal Treatment Facility	
Form Title	Untreated Soil Reporting Form
Effective Date:	
DER Application No.:	

1	2	3	4	5	6	7	8	9							
Analytical Results															
Metals															
Date	Reporting ID#	Sample Number	Amount Vol. or Wt. c/yln	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Job Address
5/200	3026874 - 200000001	1.	24.01	2.93	16.8	BDL	5.57	17.3	BDL	BDL	BDL	BDL	13140.	BDL	935 & 9-6PENNSYLVANIA AVE MBCH.
5/200	3026932 - 200000004	3.	388.27	<0198.	22.25	0.36	9.95	210.5	0.23	0.23	0.007	19.85	30.	BDL	MDAD DIKE 1 - MIA FUEL TANK FARM.
5/300	3002851 - 200000003	1.	4.35	BDL	97.5	1.25	9.0	4.1	BDL	BDL	BDL	BDL	3380.	BDL	PARKVIEW ELEM 17631 NW 20 AVE.
5/300	3008912 - 200000001	1.	15.15	BDL	384.	2.8	1.9	92.2	BDL	BDL	BDL	BDL	25000.	BDL	ER SPILL KROME AVE 4 MILES N OF SW 8 S
5/300	3046285 - 200000001	5.	671.16	875	12.5	<0.018	6.36	32.4	<0.002	<0.233	<0.119	BDL	140.	BDL	SUPERIOR MANOR HOME 5221 NW 24 AVE.
5/400	3026926 - 200000007	1.	38	2.1	285.	1.7	8.0	15.6	BDL	BDL	BDL	BDL	4473.	BDL	CSX-RR & NW 35 AVE MIAMI.
5/400	3048311 - 200000001	1.	16.88	BDL	7.13	BDL	2.53	6.62	BDL	BDL	BDL	BDL	1990.	BDL	MARTINO TIRE 7145 SW 8 ST MIAMI.
5/500	3003034 - 200000002	7.	2190.47	BDL	68.5	1.0	6.4	112.	BDL	BDL	BDL	BDL	5590.	BDL	CONNOR BROWN 6601 N FEDERAL HWY.
5/500	3006318 - 200000006	1.	1.50	0.81	2.0	BDL	2.2	16.	0.056	BDL	BDL	BDL	53000.	BDL	EVERGLADES PIPELINE DCAD BLDG 5.
5/500	3013160 - 200000001	1.	55	BDL	48.	1.15	0.9	4.9	BDL	BDL	BDL	BDL	1210.	BDL	SPEEDWAY 2500 FOREST HIL BLVD.
5/500	3046311 - 200000002	1.	27	BDL	7.84	1.17	5.46	3.24	BDL	BDL	BDL	BDL	4.4	BDL	PIONEER METALS 6601 NW 37 AVE.
5/800	3006318 - 200000005	1.	135.63	BDL	5.56	BDL	2.76	3.24	BDL	BDL	BDL	BDL	4.46	BDL	AMOCO #6190-354 SW 24 ST
5/800	3050987 - 200000001	1.	3.29	BDL	362	2.95	9.2	36.1	BDL	BDL	BDL	BDL	BDL	BDL	PBA GUN CLUB CORAL WAY MIAMI.
5/900	3026879 - 200000002	1.	24.64	BDL	422	3.6	9.7	17.0	BDL	0.68	BDL	650.	22500.	BDL	CALUMET RACCOON POINT IMMOKALEE.
5/900	3026883 - 200000005	1.	56.19	2.19	5.90	<0.5	4.86	17.40	<0.01	<5.0	0.90	BDL	816.	BDL	COASTAL FUEL CAPE CANAVERAL PLANT.
5/900	3026926 - 200000006	1.	1.55	BDL	132.5	1.85	40.5	18.6	BDL	BDL	BDL	BDL	72000.	BDL	BOE HOMESTEAD.
5/900	3026926 - 200000008	1.	60	BDL	5.3	BDL	2.1	10.6	BDL	BDL	BDL	BDL	135.	BDL	FDOT ST.RD.5. PT ST LUCIE.
5/1100	3003052 - 200000004	1.	65.07	55.	61.	BDL	11.	BDL	BDL	BDL	BDL	BDL	96.	BDL	US SUGAR PELICAN LAKE CLEWISTON.
5/1100	3026959 - 200000010	1.	11.54	<2.9	<39.	<0.64	<12.	25.	<0.100	<3.3	<0.72	590.	23000.	BDL	FPL 709 N 21 AVE HOLLYWOOD.
5/1500	COD5000 - 200000001	3.	270.23	BDL	981.66	5.43	5.83	93.4	BDL	BDL	4.05	2250.	6380.	BDL	NAVAL AIR STATION -KEY WEST.
5/1500	3003052 - 200000003	1.	141.17	1.2	27.	BDL	3.6	BDL	BDL	BDL	BDL	1010.	2300.	BDL	US SUGAR TALISMAM CLEWISTON.
5/1500	3026886 - 200000001	1.	71.60	BDL	5.34	BDL	2.50	1.95	BDL	BDL	BDL	BDL	16300.	BDL	MARRIOTT 1208 S MILITARY TRAIL
5/1600	0789COD - 200000001	1.	100.52	BDL	22.9	1.57	19.1	153.	BDL	BDL	BDL	BDL	229.	BDL	ANTHONY ABRAHAM SW 8 ST & LEJUENE.

Month May Year: 2000

# Soil Thermal Treatment Facility Untreated Soil Reporting Form

Name of Facility: **RINKER MATERIALS CORP.**  
Air Permit No.: **A013-172154**  
Soil Treatment Permit No.: **SW-01117-97**  
Stationary XXX or Mobile Facility: \_\_\_\_\_

DER Form # 17-776.900(2)  
Soil Thermal Treatment Facility  
Form Title Untreated Soil Reporting Form  
Effective Date:  
DER Application No.:

1	2	3	4	5	6	7	8	9							
			Amount												
		Sample	Vol. or	Analytical Results											
		Number	Wt. c/y/m	Metals											
Date	Reporting ID#			AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Job Address
5/16/00	3002865 - 200000002	1.	30	20.	1.0	<2.5	58.	47.	0.031	6.2	<2.0	180.	360.	BDL	GATX 9919 S ORANGE AVE ORLANDO.
5/17/00	3002894 - 200000022	5.	1306.35	BDL	543.33	0.53	1.42	7.4	BDL	BDL	BDL	2283.33	2966.	BDL	METRO RAIL 7701 NW 79 AVENUE.
5/17/00	3028903 - 200000007	1.	51.91	1.63	7.47	BDL	2.74	4.15	BDL	BDL	BDL	BDL	180.	BDL	FDOT HALLANDALE BCH & A1A.
5/23/00	3008318 - 200000007	5.	1209.11	BDL	5.30	BDL	4.33	22.43	BDL	BDL	BDL	114.	258.17	BDL	AMOCO 1180 SPANGLER BLVD PT EVERGLD.
5/24/00	3002894 - 200000023	3.	207.14	2.13	4.10	BDL	3.03	8.40	BDL	BDL	BDL	140	39	BDL	D&B TRUCKG 1200 SE 28 ST PT EVERGLD.
5/25/00	3002928 - 200000001	3.	392.78	0.09	2.81	<0.92	BDL	15.67	<0.21	BDL	BDL	BDL	5790.	BDL	WEEKLY ASPHALT 3221 HALLANDALE BCH.
5/26/00	3002857 - 200000001	3.	345.15	BDL	8.56	BDL	1.98	10.13	BDL	BDL	BDL	0.85	12.15	BDL	U-HAUL 1001 NE 1 AVENUE MIAMI.
5/28/00	3013187 - 200000001	3.	1212.68	BDL	3.	0.1	2.0	2.97	BDL	BDL	BDL	654.	66.33	BDL	AMOCO US 41 & SANDPIPER STREET NAPU.
5/30/00	3048878 - 200000002	1.	102.69	BDL	2.8	BDL	5.0	2.4	BDL	BDL	BDL	085	88	BDL	CORN CONST 3951 N SR 7 FT LAUD.
5/31/00	C0D9901 - 200000005	1.	19.82	1.0	38.	3.8	BDL	6.0	BDL	10.	1.6	1200.	1680.	BDL	RINGHAVER 9901 RINGHAVER DR ORLANDO.
5/31/00	C0D9901 - 200000006	1.	20.74	BDL	638.	1.8	3.4	7.1	BDL	BDL	BDL	9500.	600.	BDL	RINGHAVER 401 TAMOKA FARM RD DAYTON.

**Florida Department of Environmental Regulation**  
**Soil Thermal Treatment Facility**  
**Untreated Soil Reporting Form**

Name of Facility: RINKER MATERIALS CORP  
 Air Permit No: A013-172154  
 Soil Treatment Permit No: SW-01117-91  
 Stationary XXX or Mobile Facility:

**ATTACHMENT "A"**  
**Metals Blending Report**

Month May Year 2000

1		2	3	4	5										6		7	8
Day of Month	Soil Batch ID#		Sample Number	Amount Volume or Weight cy/tn	Analytical Results													
					Metals					Totals							Source	
					AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH				
2-May																		
3026932-	200000004																	
untreated	analysis																	
blending	soil				<0196	22.25	0.36	9.95	210.5	0.23	0.23	0.007				MDAD DIKE 1		
blending	soil								BDL							Blended 2 - 1		
									54									
5-May																		
3003034-	200000002																	
untreated	analysis																	
blending	soil				BDL	68.5	1	6.4	112	BDL	BDL	BDL				CONNOR BROWN		
blending	soil								BDL							Blended 2 - 1		
									89.5									
11-May																		
3003052-	200000004																	
untreated	analysis																	
blending	soil				55	61	BDL	11	BDL	BDL	BDL	BDL				US SUGAR PELICAN		
blending	soil				BDL											Blended 6 - 1		
					BDL													
16-May																		
0798COD	200000001																	
untreated	analysis																	
blending	soil				BDL	22.9	1.57	19.1	153	BDL	BDL	BDL				ANTHONY ABRAH		
blending	soil								BDL							Blended 1 - 1		
									35.7									

Florida Department of Environmental Regulation  
Soil Thermal Treatment Facility  
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP  
Air Permit No: A013-172154  
Soil Treatment Permit No: SW-01117-91  
Stationary:XXX or Mobile Facility:

ATTACHMENT "A"  
Metals Blending Report

Month May Year 2000

1	2	3	4	5										
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										
				Metals							Totals			Source
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	
16-May														
3002965-	200000002													
untreated	analysis													
blending	soil			20	1	<2.5	58	47	0.031	6.2	<2.0			GATX ORLANDO
blending	soil			BDL			BDL							Blended 1-1
				BDL			7							
untreated	analysis													
blending	soil													
blending	soil													
untreated	analysis													
blending	soil													
blending	soil													
untreated	analysis													
blending	soil													
blending	soil													

Materials Analysis Report

REPORT DATE 5/15/2000  
SAMPLE DATE 4/27/2000  
SAMPLE SOURCE MDAD DIKE 1  
REFERENCE # 3026932-20003  
R.E.S. NUMBER 14048/14049  
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
LEAD	33.5	54	mg/kg	7420	10	5/8/2000	FJG

BLEND = 1 Contaminated With 2 CLEAN

BDL = Below detection limit

  
Juan A. Gonzalez  
QA/QC Manager

## Materials Analysis Report

**REPORT DATE** 5/15/2000  
**SAMPLE DATE** 4/21/2000  
**SAMPLE SOURCE** CONNOR BROWN  
**REFERENCE #** 3003034-2000  
**R.E.S. NUMBER** 14044/14045  
**SAMPLE TYPE** SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
LEAD	65.1	89.55	mg/kg	7420	10	5/8/2000	FJG

BLEND = 1 Contaminated With 2 CLEAN

BDL = Below detection limit

  
 Juan A. Gonzalez  
 QA/QC Manager



# LINKER MATERIALS SUBSTITUTION

## Materials Analysis Report

REPORT DATE 6/15/2000  
SAMPLE DATE 5/11/2000  
SAMPLE SOURCE US SUGAR  
REFERENCE # 3003052-2000  
R.E.S. NUMBER 14089/14090  
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D.LIMITS	ANALYSIS DATE	ANALYST
ARSENIC	BDL	BDL	mg/kg	7061	0.5	5/16/2000	AP

BLEND = 1 Contaminated With 6 CLEAN  
BDL = Below detection limit

  
\_\_\_\_\_  
Juan A. Gonzalez  
QA/QC Manager

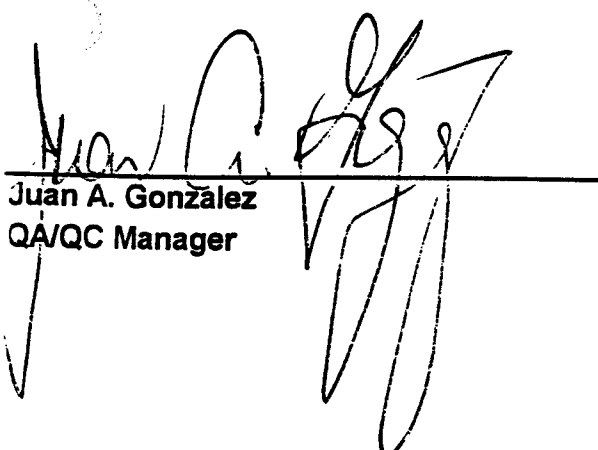
## Materials Analysis Report

**REPORT DATE** 6/15/2000  
**SAMPLE DATE** 5/16/2000  
**SAMPLE SOURCE** ANTHONY ABRAHAM  
**REFERENCE #**  
**R.E.S. NUMBER** 14164/14165  
**SAMPLE TYPE** SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D. LIMITS	ANALYSIS DATE	ANALYST
LEAD	48.4	35.7	mg/kg	7420	10	6/5/2000	FJG

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit

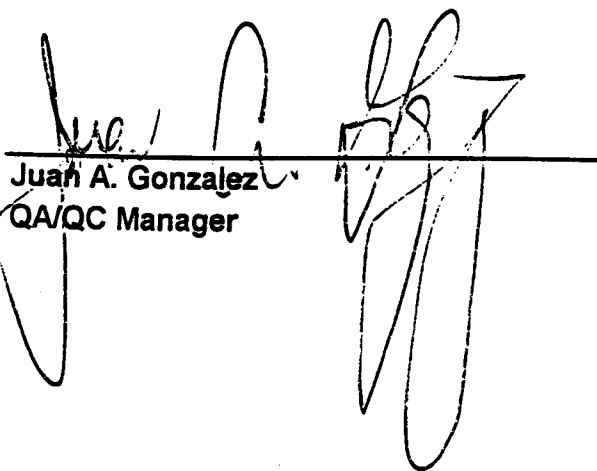
  
 Juan A. González  
 QA/QC Manager

## Materials Analysis Report

**REPORT DATE** 6/15/2000  
**SAMPLE DATE** 5/16/2000  
**SAMPLE SOURCE** ORLANDO GATX  
**REFERENCE #** 3002965-2000  
**R.E.S. NUMBER** 14166/14167  
**SAMPLE TYPE** SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
ARSENIC	BDL	BDL	mg/kg	7061	0.5	6/5/2000	FJG
CHROMIUM	4.2	7.0	mg/kg	7190	10	6/5/2000	FJG

BLEND = 1 Contaminated With 1 CLEAN  
 BL = 1 Contaminated With 1 CLEAN  
 BDL = Below detection limit

  
 Juan A. Gonzalez  
 QA/QC Manager

Soil from Treatment Facility  
Treated Soil - Testing Form

Month 8 Year 00

Name of Facility: **RI MATERIALS CORP**  
Permit No: **A013-112154**  
Treatment Permit No: **SW-01117-91**  
Primary: **XXX** or Mobile Facility:

1	2	3	4	5	6	7	8	9	10	11																																														
2118	42	108																																																						
Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/m																																																					
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Total Metals				TCLP Metals				Totals																																																
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Soil Inert  
Treated Solid  
Treatment Facility  
Testing Form

Name of Facility: MATERIALS CORP  
Permit No: A013-11154  
Soil Treatment Permit No: SW-01117-91  
Stationary, XXXX or Mobile Facility:

Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/m	Month	Year																																																						
3/22	411	42	11.68		7	00																																																						
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Soil Treatment Facility  
Treated Soil Reporting Form

Name of Facility: RI MATERIALS CORP  
Permit No: A013-117-91  
Treatment Permit No: SW-01117-91  
Stationary: XXX or Mobile Facility:

Month \_\_\_\_\_ Year 00

1	2	3	4	5	6	7	8	9	10
Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/m						
5117	42	108							
517									
518	42	108							
5114									
515	42	108							
521									
522	42	108							
530									
611	42	108							
611									

Analytical Results														
Total Metals					TCLP Metals					Totals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	Ba	Cd	Cr	Pb	Hg	Se	Ag
BDL	1348	BDL	40.5	27.5	BDL	BDL	BDL	BDL	BDL	0.25	0.25	0.25	BDL	BDL
Be	CN	Phenols	Dibenzofuran											
Benzene														
TOH														

Analytical Results														
Total Metals					TCLP Metals					Totals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	Ba	Cd	Cr	Pb	Hg	Se	Ag
BDL	1348	BDL	40.5	27.5	BDL	BDL	BDL	BDL	BDL	0.25	0.25	0.25	BDL	BDL
Be	CN	Phenols	Dibenzofuran											
Benzene														
TOH														

Analytical Results														
Total Metals					TCLP Metals					Totals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	Ba	Cd	Cr	Pb	Hg	Se	Ag
BDL	1348	BDL	40.5	27.5	BDL	BDL	BDL	BDL	BDL	0.25	0.25	0.25	BDL	BDL
Be	CN	Phenols	Dibenzofuran											
Benzene														
TOH														

Analytical Results														
Total Metals					TCLP Metals					Totals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	Ba	Cd	Cr	Pb	Hg	Se	Ag
BDL	1348	BDL	40.5	27.5	BDL	BDL	BDL	BDL	BDL	0.25	0.25	0.25	BDL	BDL
Be	CN	Phenols	Dibenzofuran											
Benzene														
TOH														

Analytical Results														
Total Metals					TCLP Metals					Totals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	Ba	Cd	Cr	Pb	Hg	Se	Ag
BDL	1348	BDL	40.5	27.5	BDL	BDL	BDL	BDL	BDL	0.25	0.25	0.25	BDL	BDL
Be	CN	Phenols	Dibenzofuran											
Benzene														
TOH														

Soil Thermal Treatment Facility  
Treated Soil Reporting Form

Name of Facility: RJ MATERIALS CORP  
Permit No: A013-1244  
Treatment Permit No: SW-01117-91  
Stationary:XXX or Mobile Facility:

Month 2000 Year

1	2	3	4	5	6	7	8	9	10
Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight Cy/m						
6112-6118	42	108							
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
BDL	1500	10.5	74	33.4	BDL	BDL	BDL	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
BDL	1500	10.5	74	33.4	BDL	BDL	BDL	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
BDL	1500	10.5	74	33.4	BDL	BDL	BDL	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
BDL	1500	10.5	74	33.4	BDL	BDL	BDL	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
333	114	218	91.2	2810	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	PAH
1216	810	314	181	161	BDL	BDL	0.57	BDL	BDL
Be	CN	Phenols	Dibenzofuran						
6					7				
Analytical Results					Totals				
Total Metals					TCLP Metals				
As	Ba	Cd							

Soil Treatment Equipment Facility  
Treated Reporting Form

Name of Facility: RJ MATERIALS CORP  
Permit No: A013-1117-91  
if Treatment Permit No: SW-01117-91  
Stationary, XXX or Mobile Facility:

1		2		3		4		5		6										7										8										9										10																			
Soil Batch ID#		Sample Number		Length of Run Hours		Amount Volume or Weight cy/m				Total Metals										Analytical Results										Totals										TOH																													
7123		42		168						Ba 280 Cd 240 Cr 82 Pb 16 Se BDL Hg BDL As BDL Be CN										TCLP Metals Ba 1.0 Cd 0.08 Cr BDL Pb BDL Se BDL Hg BDL As BDL Be BDL										VOA BDL RPH BDL PAH BDL										TOH BDL																													
7131		42		168						Ba 217 Cd 24 Cr 72 Pb 20 Se BDL Hg BDL As BDL Be CN										TCLP Metals Ba 1.0 Cd 0.08 Cr BDL Pb BDL Se BDL Hg BDL As BDL Be BDL										VOA BDL RPH BDL PAH BDL										TOH BDL																													
7131		42		168						Ba 217 Cd 24 Cr 72 Pb 20 Se BDL Hg BDL As BDL Be CN										TCLP Metals Ba 1.0 Cd 0.08 Cr BDL Pb BDL Se BDL Hg BDL As BDL Be BDL										VOA BDL RPH BDL PAH BDL										TOH BDL																													
7131		42		168						Ba 217 Cd 24 Cr 72 Pb 20 Se BDL Hg BDL As BDL Be CN										TCLP Metals Ba 1.0 Cd 0.08 Cr BDL Pb BDL Se BDL Hg BDL As BDL Be BDL										VOA BDL RPH BDL PAH BDL										TOH BDL																													