Florida Department of Environmental Regulation

Southeast District • 1900 S. Congress Ave., Suite A • West Palm Beach, Florida 33406

Lawton Chiles, Governor

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Carol M. Browner, Secretary

APR - 8 1992

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 **GMS ID** _____

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** 3/27/92 **TIME** 10:00

4. **TYPE OF FACILITY** Thermal Soil Treatment Facility

5. **DESCRIPTION OF OPERATION:**
Facility Operations include limerock mining and contaminated soil processing to produce cement. Rinker uses kilns fired by coal, natural gas, or used oil in production.

6. **APPL. REGULATIONS:** _____ 17-2, F.A.C. _X_ 17-775, F.A.C.

7. **RESPONSIBLE OFFICIAL:** (Name and Title)
James Jenkins, Vice President

8. **SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:**
William Lee Martin and Carol Meeds, FDER
Dave Marple, Rinker Materials

9. **FACILITY LATITUDE** 25°46'48" **LONGITUDE** 80°25'10"

10. **TYPE OWNERSHIP:** FEDERAL STATE COUNTY MUNICIPAL PRIVATE

11. **NOTICE NO:** SO13-195017 **DATE ISSUED:** 4/17/91 **EXP. DATE:** 4/4/96

Rev 1/8/92

An unannounced routine inspection was conducted at the Rinker Portland Cement Corporation's soil thermal treatment facility regulated pursuant to Chapter 17-775, Florida Administrative Code. This facility operates a rotary kiln and utilizes the petroleum contaminated soil in the manufacture of cement.

BACKGROUND INFORMATION:

Rinker was issued a General Permit #SO13-195017 to operate a soil thermal treatment facility on April 17, 1991 which expires on April 4, 1996. The Rinker facility was operating as an existing facility as defined in 17-775.200, FAC prior to the effective date of this rule. A complete process description is provided in the Rinker permit application; however, the process was reviewed at the inspection as follows:

According to Dave Marple, prior to accepting any soil for thermal treatment pursuant to 17-775, FAC, Rinker requires a soil analysis profile. Based on this profile, and concurrence from Metro Dade Department of Resource Management (DERM), soils are brought by truck to the new soil storage facility. All materials accepted by Rinker still receive approval from DERM in the form of a standardized form letter. This is required as a condition of the facility's current Dade County permits but may change in the future due to the increased administrative workload experienced by the County. At the time of the inspection the new soil storage facility is in use and the old temporary soil storage facility is being prepared for closure. Rinker claims to accept no hazardous wastes as defined in 40 CFR Part 261.

Rinker has operated a materials substitution program for the last four years. 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 fuel 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, and (4) blending oily sludges with contaminated soils.

SOIL STORAGE FACILITY:

Incoming soils to be thermally treated by Rinker arrive by independent contractors via truck to the new soil storage facility. Rinker does not handle drums or containers; therefore, in the event a contractor delivers contaminated soils in drums or containers the contractor is responsible for emptying and removing the drums and/or containers from the facility. The new facility 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 facility has an open front to accommodate trucks and equipment, enclosed sides, and a roof. The floor slopes to the southeast corner where a sump and holding tank are located to collect any contaminated water from wind blown rain seeping through the contaminated soils. No water has been collected to date. The ample ventilation provided and the fact the soils are not classed as flammable when delivered precluded the need for a sprinkler system for the facility according to Dave Marple. The facility was dry, no standing water was present, and no outward evidence of leachate or runoff was observed. Four new groundwater wells have been installed off the corners of the facility. All have flush mounted, secured manhole lids. The wells appear to be located on ground high enough to prevent flooding; however, the presence of watertight, lockable well caps could not be confirmed.

improved screening capability has been installed with a proposed modification to add metal removal by magnetic methods in progress. The metal and plastics removed from the soils are collected for transport to the County landfill. 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 soil storage facility.

TEMPORARY SOIL STORAGE FACILITY

Operations ceased at the temporary facility when the new facility went into operation. All soils and equipment were relocated to the new facility. Excavation of soils on the outside of the concrete berms was observed during the inspection, with these soils being transported to the new storage facility for processing as contaminated soils. The canvas/vinyl overhang was also being dismantled for removal. Once excavation of soils are completed around the perimeter of the concrete slab, soil sampling and analysis will be performed to confirm no petroleum contaminated soils remain. The four monitor wells around the concrete slab will be sampled for the next two quarters beginning with the April sampling event. After the second sampling is complete, the results and a proposal to abandon the wells and deactivate the site will be forwarded to FDER and DERM for consideration.

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. Random review of records over the past several months indicated three loads of untreated soils were received on 12/11/91, 12/12/91, and 2/18/92 respectively which exceeded the clean soil criteria for lead of 77 mg/kg. These soils were blended with other contaminated soils. Additionally, during the weeks of Feb 3-9 and Feb 10-16 the TRPH criteria of 50 mg/kg for treated soils were exceeded; however, the PAH and VOH were BDL. During these two consecutive weeks, 316 tons and 284 tons of treated soil were used to produce 10,887 and 11,815 tons of cement respectively.

SUMMARY:

The new soil storage facility incorporates "state of the art" technology in handling and storing petroleum contaminated soil and significantly enhances Rinker's capability to process contaminated soils in an environmentally sound manner. According to the facility records, the facility appears to have exceeded the clean soil criteria under Chapter 17-775.400(3), FAC and their approved alternate procedures for the weeks of February 3-9 and February 10-16. This warrants further investigation.

EXHIBIT E

Florida Department of Environmental Regulation

STATIONARY SOIL THERMAL TREATMENT FACILITY

INSPECTION REPORT

Name of Facility RINKER / MIAMI

Location 1200 NW 137th AVE, MIAMI, FL

General Permit No. SO 13-195017 Date of Inspection 3/27/92

Contact Person DAVE MARPLE

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? NEW FACILITY IN OPERATION, NEED UPDATED SITE PLAN
✓		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 untreatd soil stockpiled separately from treated soil and properly identified?
✓		6.	Is untreated soil adequately covered by roofing?
✓		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 11/26/91 end date 2/21/92
✓		11.	Are treated soil reporting forms being properly completed? starting date 12/2/91 end date 3/1[illegible]/92

TWm

12. Indicate frequency clean soil criteria is being met?
    a. 46 % TRPH - 10 mg/kg, or
    b. 93 % 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.
    a. TRPH BDL mg/kg to 438317 mg/kg, median 8397 mg/kg
    b. VOA BDL mg/kg to 59686 mg/kg, median 3778 mg/kg
    c. Arsenic BDL mg/kg to 27.1 mg/kg
    d. Barium BDL mg/kg to 740 mg/kg
    e. Cadmium BDL mg/kg to 55 mg/kg
    f. Chromium BDL mg/kg to 68 mg/kg
    g. Lead BDL mg/kg to 281 mg/kg 3 loads, all remaining < 77mg/kg
    h. Mercury BDL mg/kg to .415 mg/kg
    i. Selenium BDL mg/kg to 24 mg/kg
    j. Silver BDL mg/kg to 70.97 mg/kg

14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
    a. TRPH BDL mg/kg to 124 mg/kg, median 19.6 mg/kg
    b. VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
    c. Arsenic BDL mg/kg to 11.0 mg/kg
    d. Barium 20 mg/kg to 630 mg/kg
    e. Cadmium BDL mg/kg to 1.5 mg/kg
    f. Chromium 1.2 mg/kg to 32 mg/kg
    g. Lead BDL mg/kg to 16.1 mg/kg
    h. Mercury BDL mg/kg to .9 mg/kg
    i. Selenium BDL mg/kg to BDL mg/kg
    j. Silver BDL mg/kg to 5.1 mg/kg
    k. _____ _____ mg/kg to _____ mg/kg
    i. _____ _____ mg/kg to _____ mg/kg

Comments: (12) On two occasions the clean soil criteria exceeded the 50 mg/kg for TRPH; however the PAH and VOH were BDL for these batches. During these two consecutive weeks, 316 tons and 284 tons of treated soil were used to produce 10,887 tons and 10,815 tons of cement respectively. All TCLP metals were less than criteria. (13) On three occasions lead in untreated soils exceeded clean soil criteria. This was blended with other contaminated soils.

William L. Martin 4/3/92

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

Name of Facility: Rinker Materials Corp
Air Permit No.: AO13-172954
Soil Treatment Permit No.: SO13-195017
Stationary: X or Mobile Facility: _____

Start

Month: 09 Year: 91

1	2	3	4	5	6								7								8	9	10	11	
Day of Mo.	Soil Batch ID#	Sample Number (Sample #)	Length of Run, Hours	Amount, Volume or Weight cy/tn	Analytical Results: Total Metals								TCLP Metals								Totals				EKR Pad
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	
9/26-10/2		42	168	1479	1.6	304	BDL	27	4.3	BDL	BDL	3.5	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	BDL	BDL	[redacted]
9-23 1-29		42	168	1484	1.6	160	BDL	32	4.1	BDL	BDL	3.2	BDL	2.2	BDL	.1	BDL	BDL	BDL	BDL	BDL	47	BDL	BDL	8194
9-30 10-6		42	168	1255	2.0	344	BDL	32	3.8	.1	BDL	3.1	BDL	3.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.4			11065
10-7 10-13		42	168	1283	3.2	472	BDL	28	16.1	BDL	BDL	4.7	BDL	3.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			10293
10-14 10-20		42	168	1907	BDL	119	BDL	1.2	2.3	BDL	BDL	2.4	BDL	2.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6			11534
10-21 10-27		42	168	2346	BDL	152	BDL	4.0	146	BDL	BDL	3.3	BDL	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL			11255
10-28 11-3		42	168	1358	BDL	321	BDL	3.0	BDL	BDL	BDL	4.3	BDL	4.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.2			10824
11-4 11-10		42	168	1385	BDL	217	BDL	2.0	BDL	BDL	BDL	3.7	BDL	3.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.7			11463
11-11 11-17		42	168	2091	BDL	630	BDL	5.8	2.3	BDL	BDL	4.7	BDL	3.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	39.9	BDL	BDL	11390
11-18 11-24		42	168	1665	23	270	BDL	28	BDL	.2	BDL	3.8	BDL	2.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17.1	BDL	BDL	11023
11-25 12-1		42	168	1461	BDL	280	BDL	19	1.8	BDL	BDL	4.3	BDL	3.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17.0	BDL	BDL	[redacted]
12-2 12-8		42	168	1471	BDL	226	BDL	2.2	BDL	BDL	BDL	2.4	BDL	3.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12.4	BDL	BDL	10193
12-9 12-15		42	168	857	1.7	356	BDL	21	BDL	BDL	BDL	2.8	BDL	2.8	BDL	.17	BDL	BDL	BDL	BDL	BDL	2.5			11093
12-16 12-22		42	168	450	BDL	281	BDL	12	BDL	BDL	BDL	4.3	BDL	3.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.4			10008
12-23 12-29		42	168	788	BDL	320	BDL	3	BDL	BDL	BDL	4.4	BDL	2.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.2			9799
12-30 1-05		42	168	895	BDL	245	BDL	1.9	1.0	BDL	BDL	3.8	BDL	3.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	16.7	BDL	BDL	11451
1-06 1-12		42	168	1161	3.6	34	1.4	17	6.2	BDL	BDL	3.1	.02	1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13.0	BDL	BDL	11740
1-13 1-19		42	168	1637	BDL	24.0	BDL	1.5	BDL	BDL	BDL	3.1	BDL	.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8.6			11441
1-20 1-26		42	168	341	BDL	27.0	BDL	1.3	BDL	BDL	BDL	3.0	BDL	.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11.9	BDL	BDL	11429
1-27 2-2		42	168	398	4.3	32.0	1.2	9.5	3.4	.9	BDL	2.8	BDL	.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9.8			

See reverse side for instructions

DER Form 17-775.900(3)

Soil Thermal [illegible]atment Facility
Treated Soil Reporting Form

Name of Facility: _____
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary:_____ or Mobile Facility: _____

Month: ____ Year:

1	2	3	4	5	6								7								8	9	10	11
Day of Mo.	Soil Batch ID#	Sample Number	Length of Run, Hours	Amount, Volume or Weight cy/tn	Analytical Results																Totals			
					Total Metals								TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
2-3 2-9		42	168	316	BDL	25.0	BDL	3.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	124.0	BDL	BDL
2-10 2-16		42	168	284	3.1	31.0	1.2	12.0	3.8	BDL	BDL	1.7	BDL	.4	BDL	.24	BDL	BDL	BDL	BDL	BDL	59.9	BDL	BDL
2-17 2-23		42	168	1158	6.5	28.0	1.1	13.0	3.5	BDL	BDL	1.6	BDL	.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20.1	BDL	BDL
2-24 3-1		42	168	925	3.1	36.0	1.4	15.0	4.1	BDL	BDL	2.0	BDL	.5	BDL	.31	BDL	BDL	BDL	BDL	BDL	23.2	BDL	BDL
3-2 3-8		42	168	1110	11.0	37.0	1.5	16.0	4.6	BDL	BDL	3.2	BDL	.6	BDL	.11	BDL	BDL	BDL	.1	BDL	14.0		
3-9 3-15		42	168	1213	4.5	20	1.1	11.0	3.3	BDL	BDL	1.8	BDL	.4	BDL	.23	BDL	BDL	BDL	.1	BDL	19.6		

1088
5
968
995
11676
11682

See reverse side for instructions

DER Form 17-775.900(3)

Florida Department of Environmental Regulation
Soil Thermal Treatment ility
Untreated Soil Report. Form

Name of Facility: _____
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary ____ or Mobile Facility: ____

Month: ____ Year: ____

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results										Indicate Other Analyses		
				Metals								Totals		Attach Lab Results Only		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH			
2/19	187-06	1	34.93	<.10	<10	<.10	3.4	20.7	<.1	<.1	<.1	<4100	170			
2/21	158-08	1	55.87	BDL	50	BDL	2.8	BDL	BDL	BDL	BDL	1200	41			
2/21	158-07	1	17.88	BDL	4.7	BDL	1.4	BDL	BDL	BDL	BDL	5600	383			
2/21	187-05	1	10.01	12	5.2	BDL	13	1.7	BDL	BDL	BDL	30	12			
2/21	187-04	1	10.01	BDL	3.8	BDL	4.4	7.2	.02	BDL	BDL	BDL	BDL			
2/21	187-03	1	10.01	1.1	3.2	BDL	5.8	3.5	.033	BDL	BDL	BDL	8.2			
2/21	187-02	1	10.01	BDL	47	BDL	11	2.6	BDL	BDL	BDL	30	9.8			
2/21	187-01	1	10.01	BDL	5.4	BDL	24	19	BDL	BDL	2.4	15500	14			

- 775.340(7)

See reverse side for instructions

Untreated Soil Report. Form

Name of Facility: _____
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary ___ or Mobile Facility: _____

Month: ____ Year: ____

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results										Indicate Other Analyses		
				Metals								Totals		Attach Lab Results Only		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH			
2/13	111-97	1	52.59	27.1	5.12	.009	7.82	31.1	.0357	24	.391		71			
2/13	101-05	2	54.26	<.12	<4.40	55	2.65	5.45	<.01	<.05	<.57	BDL	5160			
2/13	106-103	3	70.39	BDL	22.5	1.03	6.36	13.17	.1	BDL	BDL	9600	438317			
2/14	106-103	3	49.76	BDL	22.5	1.03	6.36	13.17	.1	BDL	BDL	9600	438317			
2/17	106-103	3	13.44	BDL	22.5	1.03	6.36	13.17	.1	BDL	BDL	9600	438317			
2/13	267-01	3	427.98	1.11	65.47	BDL	14.9	337	.081	BDL	BDL	23	3086			
2/17	267-01	3	14.00	1.11	65.47	BDL	14.9	337	.081	BDL	BDL	23	3086			
2/14	265-01	1	97.08	1.5	16.4	BDL	3.0	1.2	BDL	BDL	BDL	550	13300			
2/18	265-01	1	1445	1.5	16.4	BDL	3.0	1.2	BDL	BDL	BDL	550	13300			
2/14	269-01	1	27.80	1.9	25.0	BDL	3.0	35.0	BDL	BDL	BDL	BDL	399			
2/14	111-98	1	10.92	.216	<.1	1.66	5.27	27.5	.00445	.0339	2.41	BDL	<1			
2/17	106-110	6	249.04	<1	<1.75	<.5	<1.0	7.42	<.03	<1	<1	5648	61.16			
2/18	106-110	6	726.98	<1	<1.75	<.5	<1.0	7.42	<.03	<1	<1	5648	61.16			
2/19	106-110	6	331.88	<1	<1.75	<.5	<1.0	7.42	<.03	<1	<1	5648	61.16			
2/18	259-02	1	24.98	BDL	1.7	BDL	4.2	14.5	BDL	BDL	BDL	11.22	139			
2/18	106-104	1	19.35	16.6	123	2.72	22.9	281	.22	<.4	1.76	BDL	6090			
2/18	106-106	1	68.16	BDL	2.5	BDL	5.6	2.1	BDL	BDL	2.5	BDL	170			
2/19	134-01	1	11.05	BDL	500	BDL	36	2.2	BDL	BDL	4.9	44	939			
2/19	111-99	1	15.12	.149	<.01	2.36	5.38	21.4	.0445	.0399	3.54		66.8			

- 775.40(7)

See reverse side for instructions

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Report... Form

Name of Facility: _____
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary ____ or Mobile Facility: ____

Month: 1 Year: 92

1	2	3	4	5								6	7	8		
				Analytical Results												
				Metals								Totals		Indicate Other Analyses		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
1/15	111-88	1	19.03	.48	<.1	3.43	10	24.1	.037	.034	3.05	<1.57	42.3			0
1/15	190-07	1	96.45	BDL	173	BDL	5.3	1.7	BDL	BDL	BDL	18550	1075			.0018
1/16	160-02	5	99.86	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0002
1/17	160-02	5	99.96	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0002
1/20	160-02	5	144.66	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0002
1/21	160-02	5	143.62	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0202
1/22	160-02	5	143.56	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0002
1/23	160-02	5	149.24	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0002
1/24	160-02	5	145.46	<1.98	8.42	<.53	3.64	5.26	<.03	<1	<1	<1540	9930			.0002
1/16	264-01	1	74.90	.72	BDL	2.2	BDL	10.4	BDL	.22	BDL	BDL	56			0
1/16	106-98	1	1.66	1.87	44.8	3.2	68	64.4	.053	2.4	<1.6	686	10185			0
1/16	240-02	1	43.44	.109	57.9	8.94	5.26	18.4	<.001	.0629	1.96	<2652	340			.0001
1/17	240-02	1	21.10	.109	57.9	8.94	5.26	18.4	<.001	.0629	1.96	<2652	340			.0001
1/20	122-04	3	216.88	BDL	26.3	BDL	1.7	17.7	BDL	BDL	BDL	423.7	1195			.0001
1/21	122-04	3	115.82	BDL	26.3	BDL	1.7	17.7	BDL	BDL	BDL	423.7	1195			0
1/22	122-04	3	130.13	BDL	26.3	BDL	1.7	17.7	BDL	BDL	BDL	423.7	1195			0
1/20	114-07	1	15.31	BDL	2.8	BDL	1.1	BDL	BDL	BDL	BDL	BDL	20			0
1/21	222-05	1	53.89	BDL	.33	BDL	3.6	BDL	BDL	BDL	BDL	BDL	24.9			0
1/22	121-02	1	38.30	BDL	2	BDL	2	BDL	BDL	BDL	BDL	8700	5510			.0003
1/24	121-02	1	60.51	BDL	2	BDL	2	BDL	BDL	BDL	BDL	8700	5510			.0005

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See reverse side for instructions

Untreated Soil Report Form

Name of Facility: Rinker Materials Corp.
Air Permit No.: ____
Soil Treatment Permit No.: ____
Stationary X or Mobile Facility: ____

Month: 1 Year: 92

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results												
				Metals								Totals		Indicate Other Analyses		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
1/8	256-03	3	25.27	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/9	256-03	3	23.63	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/10	256-03	3	12.47	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/11	256-03	3	12.92	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/13	256-03	3	12.92	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/14	256-03	3	26.83	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/15	256-03	3	43.89	1.59	<12.53	<.8	8.67	34.13	<.05	<.4	<1.6	BDL	3355			0
1/8	222-04	1	.61	BDL	6.3	BDL	6.9	1.6	BDL	BDL	BDL	11600	88			0
1/8	106-100	1	4.35	BDL	88	BDL	3.3	9.6	.2	BDL	1.6	BDL	32700			0
1/9	11180	1	38.39	1.64	5.24	2.54	5.57	33.30	<.001	.035B	2.54	<8	56.9			0
1/10	143-03	1	73.38	BDL	31	BDL	4.2	3.4	BDL	BDL	7.2	890	23.7			0
1/10	114-19	1	1.68	<.4	6	<.5	4.5	5.8	<.02	<1	<1	<50	<5			0
1/10	146-02	1	4.4	.115	13.9	.385	2.73	3.85	.0127	.136	.577	<8	2180			0
1/10	103-08	3	72.07	BDL	4.5	BDL	5.37	18.67	.027	BDL	BDL	BDL	27			0
1/14	111-90	1	.53	<1	3.05	<.5	3.7	8.15	<.03	<1	<1	<9.5	<450			0
1/14	111-89	1	.97	<1	4	<.5	3.9	15	<.03	<1	<1	95	<5			0
1/14	256-04	1	12.58	.646	<12	<.8	<4	<4	<.05	<.4	<1.6	BDL	374			0
1/14	111-91	1	43.23	.12	<.1	4.16	4.84	25.2	.00207	.226	2.21	<27994	106.6			.0012
1/14	134-03	1	141.64	BDL	270	BDL	5.3	57	BDL	BDL	BDL	BDL	557			0
1/15	255-04	1	27.83	BDL	3	BDL	2	BDL	BDL	BDL	BDL	30	15			0

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See reverse side for instructions

.0012

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Report. Form

Name of Facility: _____
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary ____ or Mobile Facility: ____

Month: 1 Year: 92

1	2	3	4	5								6	7	8		
				Analytical Results												
				Metals								Totals		Indicate Other Analyses		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
1/2	114-15	1	131.62	BDL	54	BDL	5.6	9.2	.2	BDL	2.4	BDL	11032			0
1/2	106-87	1	47.99	1.1	2.2	<.5	4.0	1.9	.022	<1	<1	BDL	57			0
1/3	106-89	1	2.55	BDL	8	BDL	4	44	BDL	BDL	BDL	4345	200			0
1/3	106-88	1	1.66	<.4	<12	<.8	5.6	<4	<.05	<.4	<1.6	53800	10369			0
1/3	114-18	1	31.95	<.4	<12	<.8	<4	<4	<.05	<.4	<1.6	BDL	25			0
1/7	114-18	1	14.50	<.4	<12	<.8	<4	<4	<.05	<4	<1.6	BDL	25			0
1/13	114-18	1	18.01	<.4	<12	<.8	<4	<4	<.05	<.4	<1.6	BDL	25			0
1/3	106-86	1	1.57	2.7	18	<64	60	18	.016	<5	<1.3	BDL	23			0
1/3	126-19	1	79.29	.27	<.1	2.2	3.32	14.5	<.001	2.34	5.15	422.3	170			0
1/3	103-07	1	34.13	<.4	<2	<.5	1.0	.6	<.02	<1	<1	<240	<5			0
1/3	106-96	1	.327	<.4	<12	<.8	8	<4	<.05	<.4	<1.6	BDL	145			0
1/6	106-97	1	2.46	BDL	43.7	BDL	4.1	BDL	BDL	BDL	BDL	BDL	22			0
1/6	106-90	1	.69	1.91	<12	<.8	<4.0	<4.0	<.05	<.4	<5.0	BDL	190			0
1/6	106-91	1	.82	.033	8.8	1.3	9.1	.47	<.05	.11	1.6	<130	619			0
1/6	106-92	1	1.17	<.4	<12	<.8	<4.0	<4.0	<.05	<.4	<1.6	BDL	73			0
1/6	106-93	1	.76	.675	42.4	<.8	7.2	<4	<.05	<.4	2.4	BDL	<5			0
1/6	106-94	1	.82	<.4	16.4	<.8	5.92	<4.0	.415	<.44	1.4	BDL	97			0
1/6	255.03	3	126.85	1.53	54.9	BDL	18.1	48.3	.133	BDL	BDL	6383	1627			.0008
1/6	111-87	1	28.94	.922	10.5	2.69	11	27.3	<.001	<.002	3.39	<55.9	98			0
1/7	106-99	1	6.45	<1	3.6	<.5	3.9	1.8	<.03	<1	<1	8.8	66			0

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522.56

See reverse side for instructions

.0008

Untreated Soil Report Form

Name of Facility: _____
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary ____ or Mobile Facility: ____

Month: 12 Year: 91

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results												
				Metals								Totals		Indicate Other Analyses		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
12/24	258-01	3	32.47	<.4	6	<.5	2.96	2.97	.033	<1	<1	<8371	<13			.0003
12/26	258-01	3	78.05	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0007
12/27	258-01	3	49.16	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0004
12/23	180-02	3	30.66	<.151	<1.91	1.06	26.37	20.10	.056	<.008	70.97	<9.24	213.8			0
12/23	106-79	5	57.34	1.36	67.38	BDL	4.42	1.3	BDL	BDL	BDL	59686	45.2			.003
12/24	106-79	5	215.73	1.36	67.38	BDL	4.42	1.3	BDL	BDL	BDL	59686	45.2			.0129
12/23	111-79	1	1.35	<.002	<.1	1.09	2.52	10.01	.0091	.0777	.376	<9	270			0
12/23	111-81	3	147.62	.49	65.2	2.54	8.36	48.9	.031	.05	3.35	<8	48.1			0
12/26	111-81	3	47.98	.49	65.2	2.54	8.36	48.9	.031	.05	3.35	<8	48.1			0
12/23	111-82	1	.42	<.002	<.1	2.31	7.59	31.3	.0227	<.002	1.7	<9	170			0
12/23	111-83	1	.5	.0284	1.93	1.31	1.12	4.62	.00168	.105	.231	8	50.8			0
12/23	159-06	1	40.45	9.0	10	<.5	5	7.0	<.02	<1	<1	BDL	238			0
12/24	158-05	1	4.36	<.4	106.4	<1	1.9	1.4	.1	BDL	BDL	<55	6500			0
12/27	268-01	4	943.02	.52	13.98	3.04	6.035	38.32	.0242	<.031	2.88	<8	<28.25			0
12/30	111-84	3	567.21	.1482	24.27	3.58	6.04	68.36	.006	.0268	7.58	<13	40.75			0
12/30	111-86	3	140.11	BDL	18.87	1.9	2.57	13.8	BDL	BDL	BDL	BDL	26.5			0
12/31	111-85	2	124.08	2.5	740	4.35	3.46	54.9	.1445	BDL	4.2	BDL	47.4			0
12/31	106-95	1	47.24	BDL	520	2.9	1.75	30	BDL	BDL	2.2	BDL	285			0

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See reverse side for instructions

0521.75

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

Name of Facility: Rinker Materials Corp
Air Permit No.: ____
Soil Treatment Permit No.: ____
Stationary X or Mobile Facility: ____

Month: 12 Year: 91

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results												
				Metals								Totals		Indicate Other Analyses		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
12/12	114-17	1	19.35	BDL	1	BDL	BDL	BDL	BDL	BDL	BDL	1300	34			0
12/13	111-60	1	21.45	.781	<.01	2.42	15.2	35.3	<.002	.0006	.008	.781	1681			0
12/13	230-02	1	19.51	2.5	3.6	2.0	3.3	16.1	BDL	BDL	2.1	BDL	37			0
12/16	136-04	3	52.98	1.93	24	<.63	30.67	58.67	<.031	<1	<1	BDL	29.3			0
12/17	136-04	3	377.53	1.93	24	<.63	30.67	58.67	<.031	<1	<1	BDL	29.3			0
12/17	262-01	1	2.08	.5	9.8	.5	3.5	22	BDL	1.4	BDL	BDL	24			6
12/17	106-85	1	90.51	BDL	10.3	BDL	3.0	12.2	BDL	BDL	BDL	2320	41			.0002
12/18	258-01	3	15.90	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0001
12/19	258-01	3	43.14	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0004
12/20	258-01	3	19.10	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0002
12/18	257-01	1	3.67	1.7	26	BDL	1.9	BDL	BDL	BDL	BDL	BDL	101			0
12/18	111-76	1	25.45	.241	<.1	2.57	12.4	30.5	.005	.0108	2.82	<8	486			0
12/19	190-06	1	18.82	<1	1.9	<.5	2.4	4.7	<.03	<1	<1	<7050	20			.0001
12/19	111-58	1	178.46	.0551	<.1	2.68	5.8	16	.0105	.0758	2.32	<3405	87.4			0
12/20	111-77	1	113.30	.625	<.1	1.96	3.3	19.6	<.001	.125	.766	<48.7	120			0
12/20	106-81	1	20.87	2.68	43.6	<.8	6.8	47.6	.06	<.4	1.88	BDL	17820			0
12/12	180-02	3	171.16	.151	<1.91	1.06	26.37	20.10	.056	<.003	70.97	<9.24	213.8			0
12/13	180-02	3	11.76	.151	<1.91	1.06	26.37	20.10	.056	<.003	70.97	<9.24	213.8			0
12/20	258-01	3	34.69	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0003
12/23	258-01	3	58.82	<.4	6	<.5	2.96	3.97	.033	<1	<1	<8371	<13			.0005

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1298.58

See reverse side for instructions

.0018

Untreated Soil Report Form

Name of Facility: Rinker Materials Corp
Air Permit No.: ____
Soil Treatment Permit No.: ____
Stationary X or Mobile Facility: ____

Month: 12 Year: 91

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results												
				Metals								Totals		Indicate Other Analyses		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
12/5	111-79	1	2.70	.0573	<.1	1.24	1.45	6.03	.0085	<.002	.993	<12.65	214			0
12/5	111-75	1	.327	.586	3.94	1.22	2.99	13.8	.0282	.102	1.34	<8	93.8			0
12/5	261-01	2	175.04	BDL	158	BDL	7.7	2.75	BDL	BDL	4.05	BDL	190.45			0
12/5	111-65	1	2.03	.0494	6.63	.862	3.65	8.28	.0016	.0588	.63	<36.4	67.3			0
12/5	111-68	1	.23	.0288	<.1	.975	1.5	8.97	<.001	<.002	<.01	<8	170			0
12/5	111-74	1	.42	.063	5.15	1.75	2.78	14.4	.0078	.0489	.978	<8	138			0
12/5	111-71	1	.17	.242	<.1	.837	9.18	8.62	.0284	.069	.812	<8	824			0
12/5	111-70	1	1.37	.0665	12.4	.0829	5.26	28.6	.0015	.0294	<.01	29505.37	168			0
12/6	114-66	1	45.55	BDL	42	BDL	BDL	8.9	BDL	BDL	BDL	BDL	1470			0
12/10	101-04	1	14.22	14	16	.33	BDL	38	BDL	BDL	BDL	BDL	210			0
12/10	106-79	5	733.21	1.36	67.38	BDL	4.42	1.3	BDL	BDL	BDL	54686	45.2			.0438
12/11	106-79	5	263.47	1.36	67.38	BDL	4.42	1.3	BDL	BDL	BDL	54686	45.2			.0157
12/12	106-79	5	38.70	1.36	67.38	BDL	4.42	1.3	BDL	BDL	BDL	58686	45.2			.0023
12/11	111-61	1	55.35	.361	<.1	9.87	10.7	44	2.001	.247	1.78	<8	1574			0
12/11	10305	1	87.88	<.4	6	<.5	4.5	2.8	<.02	<1	<1	<5	<5			0
12/11	111-62	1	14.61	.189	.359	2.41	5.58	44.7	.0012	.0011	.027	<80	5864			0
12/11	111-59	1	44.53	.281	<.1	16.6	10.7	104	<.001	.143	3.77	<8	1699			0
12/12	111-59	1	26.71	.281	<.1	16.6	10.7	104	<.001	.143	3.77	<8	1699			0
12/12	103-06	1	48.30	13.8	6	<.5	3.7	11.4	.04	<1	<1	BDL	11			0
12/12	194-05	3	355.10	1.61	2.87	.04	3.5	6.5	BDL	1.03	.75	4625.3	25.3			.0016

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See reverse side for instructions

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.0434

Florida Department of Environmental Regulation
Soil Thermal Treatment :ility
Untreated Soil Report . Form

Name of Facility: Rinker Materials Corp
Air Permit No.: ____
Soil Treatment Permit No.: ____
Stationary X or Mobile Facility: ____

Month: 12 Year: 91

1	2	3	4	5								6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount, Volume or Weight cy/tn	Analytical Results												
				Metals								Totals		Indicate Other Analyses		
				As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	Attach Lab Results Only		
11/26	117-02	3	302.95	BDL	69.9	BDL	5.6	2.3	BDL	BDL	BDL	13261	744			.004
11/26	255-02	1	94.48	BDL	4.0	BDL	3.0	9.0	BDL	BDL	BDL	159	74			0
11/26	260-01	3	173.48	<.4	<2	<.5	1.3	4.2	<.02	<1	<1	<14	5			0
11/27	260-01	3	90.93	<.4	<2	<.5	1.3	4.2	<.02	<1	<1	<14	5			0
11/27	222-03	1	.95	<.589	68	<.236	7.19	14.2	<.036	<.589	2.23	34420	256			0
11/27	335-02	1	18.74	<1	1.9	<.5	2.5	6.4	<.03	<1	<1	<538	870			0
11/27	102-09	2	9.64	BDL	9.5	BDL	2.95	5.3	BDL	BDL	1.336	BDL	2842			0
12/12	102-09	2	156.17	BDL	9.5	BDL	2.95	5.3	BDL	BDL	1.336	BDL	2842			0
11/27	106-80	1	53.55	BDL	19.8	BDL	5.8	22.8	.1	BDL	BDL	100	549			0
12/2	106-84	1	1.69	.8	BDL	BDL	13.5	3.1	BDL	BDL	BDL	BDL	3200			0
12/2	106-82	1	.35	.619	<.1	2.34	11.3	34.8	.00602	.287	4.81	415.7	271			0
12/2	106-83	2	.32	.0875	<.1	.525	1.96	3.04	.0019	.0428	.189	<4391	<1			0
12/4	111-63	1	175.48	.308	2.001	.604	4.19	7.65	.009	.0106	.967	<8	44.5			0
12/5	111-63	1	22.37	.308	2.001	.604	4.19	7.65	.009	.0106	.967	<8	44.5			0
12/5	111-64	1	3.53	.0932	40.6	.749	.437	14.4	.0174	.0262	.25	<917	80			0
12/5	111-66	1	1.26	.217	10	1.61	3.52	19.1	.0358	.109	11.01	<15.43	190			0
12/5	111-67	1	1.55	.193	5.07	.463	1.05	2.03	.0188	.0114	.0388	<8	240			0
12/5	111-72	1	3.09	.0872	7.68	.461	.499	15.4	.0271	.007	.154	<1232.2	49.4			0
12/5	111-73	1	.43	.0889	9.4	2.35	4.84	18.8	.0246	.0421	2.58	<8	<1			0
12/5	111-69	1	.39	.16	22.7	2.67	4.55	21.4	.0184	.0602	4.93	<253	254			0

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See reverse side for instructions

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