

Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

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

JAN 13 1999

Dear Mr. Jenkins,

The attached Soil Thermal Treatment Facility Inspection Report documents the findings of a routine inspection conducted at your facility (1200 NW 137th Avenue, Miami, FL, by the Department on January 7, 1998) for compliance with Chapter 62-775, Florida Administrative Code (F.A.C.). As noted on the attached inspection report, the locking cap on the ground water monitoring well located near the southwest corner of the Material Screening Building can not be tightened sufficiently and, therefore, must be replaced or repaired. Please note that all of the monitoring wells need to be kept secured and in good condition. Additionally, some of the detection limits reported for certain parameters in the November 20, 1998 Quarterly Report of Ground Water Monitoring and in previous quarterly reports exceeded the corresponding ground water standard. Please make sure that laboratory analytical procedures used in the future are capable of meeting the appropriate detection limits. Thank you for your continued cooperation.

If you have any questions or need further information, please contact **Jorge R. Patino** at 561-681-6726.

Sincerely,

Paul Alan Wierzbicki, P.G.
Waste Cleanup Supervisor

PAW/jrp

attch: STTF Inspection Report conducted 01/07/1999

cc: Paul Lasa, DERM, Miami
Tom Conrardy, DEP/BWC, Tallahassee
Zoe Kulakowski, DEP/BWC, Tallahassee
Jeff Smith, DEP/WPB
Don Emery, Rinker Materials, Miami
West Palm Beach File



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SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1. TYPE INSPECTION: ☐ COMPLAINT ☒ 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 01/07/99 TIME 10:30AM

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: 62-2, F.A.C. ☒ 62-775, F.A.C.

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

8. SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:

Lee Martin and Jorge Patino, 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"

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A routine inspection was conducted at the Rinker Portland Cement Corporation's soil thermal treatment facility regulated pursuant to Chapter 62-775, Florida Administrative Code (FAC) and Chapter 62-701, F.A.C. 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 pursuant to 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, 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 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, (4) using spent petroleum catalyst as an aluminum source, (5) blending oily sludges with contaminated soils, and (6) using other petroleum contaminated material.

Rinker has received approval for burning old tires as a fuel and iron supplement. The tires are injected whole, two at a time, through a patented system during each rotation of the kiln. The point of injection is approximately midway along the kiln where the temperature is approximately 1800 ° F. Additionally, the tires reportedly are packed with petroleum contaminated booms, diapers, absorbent material, jet fuel filters, etc.; however, operational problems with lowering of temperatures has suspended continuous burning but some batch burning is still performed. 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 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, Rinker did not treat coal tar contaminated soil from September through December 1998.

Rinker has applied for an alternative procedure to allow processing of certain petroleum related sludges/residues along with petroleum contaminated soil. This request is under review by the Bureau of Waste Cleanup.

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

SOIL STORAGE FACILITY:

Incoming soils to be thermally treated by Rinker arrive from independent contractors via truck, are weighed, and taken to the Material Screening Building (MSB) for processing. Rinker has changed its 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. (During this inspection, most drums observed were located inside the MSB. Approximately 10 drums, containing used oil filters, were temporarily staged on the secondary containment curb along the northwest corner of the MSB. The total number of drums did not appear to have changed appreciably since the previous inspection.) Once emptied, drums are rinsed at the drum washing area and either crushed (if damaged) for salvage or sent to an outside drum facility. The rinse water is contained and used on site in slurry production, the sediments are returned to the soil storage facility. The MSB, located south of the railroad tracks, became operational on February 9, 1992 and consists of an approximate 100-foot by 300-foot 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 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 facility. 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 facility 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. This will continue to be checked in the future. The four groundwater wells near the corners of the facility have flush mounted manhole lids. The locking cap on the ground water monitoring well located near the southwest corner of the Material Screening Building can not be tightened sufficiently and, therefore, must be replaced or repaired.

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 soil storage facility. Spent oil filters are drummed at the soil storage facility and processed for recycling to Cliff Berry, Inc. A covered dumpster has been located in the Northeast corner of the soil storage building to allow collection of oily wastes/sludges which are mixed with the fuel oil and burned in the kiln. According to Mr. Emery, Rinker may wish to locate a dumpster within the MSB in the future to store used oil filters temporarily. The Department will be contacted for approval prior to implementing this change in operation.

RECORD KEEPING:

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 reportedly 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. (Detection limits must be comparable with applicable groundwater standards.) A review of records for untreated soil for November 1998 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, which confirms blended soils comply with total metals standards. Rinker began treating low level PCB contaminated soils in April 1994 and developed a form for tracking the source, soil PCB content, quantity, PCB concentration, pounds PCB treated, and cumulative year to date PCB treated. Appropriate reporting forms for untreated PCB contaminated soils were submitted for this inspection period. 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 treated from August through November 1998.

SUMMARY:

The soil storage facility provides for proper handling and storage of petroleum contaminated soils, low level PCB contaminated soils, and coal tar contaminated soils and allows Rinker to process contaminated soils in an environmentally sound manner. No visual signs of discharge were noted and all facility personnel were very cooperative. A review of treated soil (clinker) forms for TCLP analyses indicates the results from three samples exceed the ground water standard for chromium; however, all this material is stabilized in concrete rather than disposed of as clean soil.

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

Name of Facility Rinken Materials
Location 1200 NW 137th Ave, Miami, FL 33182
General Permit No. SO13-290034 Date of Inspection 01/07/99
Contact Person Don Emery
Person Completing Report Jorge E. Patino

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?
- ☒ 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 11/5/98 end date 11/30/1998
- ☒ 11. Are treated soil reporting forms being properly completed? starting date 8/3/98 end date 11/30/98

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 461 mg/kg to 580,000 mg/kg, median 1318 mg/kg
 - VOA BDL mg/kg to 22,240 mg/kg, median 73 mg/kg
 - Arsenic BDL mg/kg to 3.1 mg/kg
 - Barium BDL mg/kg to 134 mg/kg
 - Cadmium BDL mg/kg to 2.61 mg/kg
 - Chromium 1.28 mg/kg to 47 mg/kg
 - Lead BDL mg/kg to 311 mg/kg
 - Mercury BDL mg/kg to 5.89 mg/kg
 - Selenium BDL mg/kg to 0.9 mg/kg
 - Silver BDL mg/kg to 2.44 mg/kg
14. Indicate ranges and approximate median values of treated soil analyses for the following parameters. *(total metals)*
- 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 1.5 mg/kg to 5.9 mg/kg
 - Barium 35 mg/kg to 371 mg/kg
 - Cadmium BDL mg/kg to 0.06 mg/kg
 - Chromium 45.5 mg/kg to 136 mg/kg
 - Lead 6.0 mg/kg to 11.9 mg/kg
 - Mercury BDL mg/kg to BDL mg/kg
 - Selenium BDL mg/kg to 8.8 mg/kg
 - Silver BDL mg/kg to 0.4 mg/kg
 - mg/kg to mg/kg
 - mg/kg to mg/kg

Comments: * GW data is submitted to Tallahassee. However,
a copy of the Nov 20, 1998 Quarterly GW Monitoring Report
was obtained and briefly reviews site. As in previous
reports, the some of the lab detection limits exceed the
standards. This was discussed w/ Don Every

Patricia
 Signature

1/7/99
 Date

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

Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount of Volume or Weight cy/m	Month Year											
8/13	819	42	168		6 7 8 9 10 11											
Analytical Results					TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
					5.3	230	BDL	40.3	6.0	BDL	4.0	BDL	BDL	BDL	BDL	BDL
					Be	CN	Phenols	Dibenzofuran								
					Benzene											
8/10	816	42	168		6 7 8 9 10 11											
Analytical Results					TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
					2.0	230	BDL	40.3	9.3	BDL	8.8	BDL	BDL	BDL	BDL	BDL
					Be	CN	Phenols	Dibenzofuran								
					Benzene											
8/17	813	42	168		6 7 8 9 10 11											
Analytical Results					TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
					2.0	231	BDL	40.3	10.1	BDL	2.1	BDL	BDL	BDL	BDL	BDL
					Be	CN	Phenols	Dibenzofuran								
					Benzene											
8/21	8130	42	168		6 7 8 9 10 11											
Analytical Results					TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
					2.0	315	BDL	40.3	7.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL
					Be	CN	Phenols	Dibenzofuran								
					Benzene											
8/13	9107	42	168		6 7 8 9 10 11											
Analytical Results					TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
					1.4	318	BDL	40.3	7.7	BDL	0.9	BDL	BDL	BDL	BDL	BDL
					Be	CN	Phenols	Dibenzofuran								
					Benzene											

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

Month

Year

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Month Year

Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/ton	6											7																																																																																																																																																								
11/23	-	42	168		<table border="1"> <tr> <th colspan="5">Total Metals</th> <th colspan="5">TCLP Metals</th> <th colspan="1">Totals</th> </tr> <tr> <th>As</th> <th>Ba</th> <th>Cd</th> <th>Cr</th> <th>Pb</th> <th>Hg</th> <th>Se</th> <th>Ag</th> <th>As</th> <th>Ba</th> <th>Cd</th> <th>Cr</th> <th>Pb</th> <th>Hg</th> <th>Se</th> <th>Ag</th> <th>VOA</th> <th>RPH</th> <th>PAH</th> <th>VOH</th> </tr> <tr> <td>3.4</td> <td>335</td> <td>BDL</td> <td>748</td> <td>8.1</td> <td>BDL</td> <td>2.3</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>0.5</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td colspan="5">Phenols</td> <td colspan="5">Dibenzofuran</td> <td colspan="5">Benzene</td> <td colspan="5"></td> </tr> </table>											Total Metals					TCLP Metals					Totals	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	3.4	335	BDL	748	8.1	BDL	2.3	BDL	BDL	BDL	BDL	0.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Phenols					Dibenzofuran					Benzene										<table border="1"> <tr> <th colspan="5">Total Metals</th> <th colspan="5">TCLP Metals</th> <th colspan="1">Totals</th> </tr> <tr> <th>As</th> <th>Ba</th> <th>Cd</th> <th>Cr</th> <th>Pb</th> <th>Hg</th> <th>Se</th> <th>Ag</th> <th>As</th> <th>Ba</th> <th>Cd</th> <th>Cr</th> <th>Pb</th> <th>Hg</th> <th>Se</th> <th>Ag</th> <th>VOA</th> <th>RPH</th> <th>PAH</th> <th>VOH</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5">Phenols</td> <td colspan="5">Dibenzofuran</td> <td colspan="5">Benzene</td> <td colspan="5"></td> </tr> </table>											Total Metals					TCLP Metals					Totals	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH																					Phenols					Dibenzofuran					Benzene									
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RINKER ENVIRONMENTAL SERVICES
1200 N.W. 137th AVENUE
MIAMI, FL 33182
PHONE # 305-225-1423 / 225-1427
800-226-7647
FAX # 305-220-9875

COMMENTS: _____

Month November Year: 1998

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 #	17-775.900(2)
Form Title	Soil Thermal Treatment Facility 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	Vol. or Amount	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only	
11/5/98	3002958 - 199800006	1.	1.25	0.90	22.	0.90	8.3	27.	0.028	0.90	1.8	BDL	4200.	BDL		
11/5/98	3013174 - 199800006	1.	41.92	BDL	21.9	0.56	47.	23.2	0.08	BDL	0.2	BDL	9.2	BDL		
11/5/98	3018345 - 199800003	1.	2.60	1.0	14.6	0.20	5.5	19.	0.18	BDL	BDL	BDL	2669.	BDL		
11/5/98	3018345 - 199800004	1.	11.93	1.0	16.0	0.38	8.2	18.6	0.22	BDL	BDL	BDL	1318.	BDL		
11/5/98	3018345 - 199800005	1.	1.25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	362.40	1368.	BDL		
11/5/98	3026980 - 199800003	1.	7.05	BDL	6.0	BDL	2.90	2.90	BDL	BDL	BDL	22290.	1410.	BDL		
11/5/98	3026901 - 199800008	1.	25	0.5	5.	BDL	4.	1.	BDL	BDL	BDL	BDL	73.	BDL		
11/6/98	3003039 - 199800014	1.	9.19	BDL	2.00	BDL	2.3	9.8	BDL	BDL	BDL	BDL	165.	BDL		
11/9/98	3002927 - 199800001	3.	227.51	BDL	4.09	BDL	2.23	BDL	BDL	BDL	BDL	3733.	470.	BDL		
11/9/98	3026985 - 199800004	1.	11.36	BDL	12.	BDL	6.20	84.	200	BDL	BDL	381.	2210.	BDL		
11/10/98	3002912 - 199800001	1.	1.80	BDL	BDL	BDL	3.80	5.9	BDL	BDL	BDL	BDL	2900.	BDL		
11/10/98	3026926 - 199800016	1.	12.62	2.2	38.	0.12	15.3	114.	BDL	BDL	BDL	BDL	3400.	BDL		
11/11/98	3003055 - 199800005	5.	942.98	2.20	BDL	2.47	2.97	1.11	BDL	BDL	BDL	1053.33	5.60	BDL		
11/12/98	3002894 - 199800057	1.	22.68	3.1	35.3	2.61	12.4	311	5.89	BDL	0.2	BDL	1865.	BDL		
11/12/98	3026901 - 199800010	5.	505.79	0.3	3.12	BDL	4.62	4.54	BDL	BDL	BDL	BDL	15.2	BDL		
11/13/98	3025321 - 199800003	1.	109.07	1.6	3.	BDL	2.4	1.4	BDL	BDL	BDL	BDL	30.	BDL		
11/16/98	3003009 - 199800003	1.	11.89	BDL	BDL	BDL	3.2	29.	BDL	BDL	BDL	14604.	555.	BDL		
11/17/98	3000156 - 199800001	1.	25	BDL	3.4	0.06	1.2	5.01	0.34	BDL	BDL	3620.	2649.	BDL		
11/17/98	3002855 - 199800015	3.	652.58	315	5.09	0.88	3.36	8.45	<.0010	0.29	2.49	826.3	4.61	BDL		
11/17/98	3006318 - 199800004	5.	1451.95	BDL	BDL	BDL	28	0.22	BDL	BDL	BDL	5356.	2008.	BDL		
11/18/98	3014974 - 199800003	3.	194.93	BDL	13.23	BDL	7.67	33.24	BDL	BDL	BDL	220.80	82.	BDL		
11/19/98	3006318 - 199800005	1.	56.37	0.83	6.3	0.0131	5.6	2.5	0.00640	0.15	0.31	1021.	190.	BDL		
11/19/98	3026978 - 199800002	1.	14.75	BDL	2.8	BDL	4.20	BDL	BDL	BDL	BDL	4870.	57.5	BDL		

Month November Year: 1998

Soil Thermal Treatment Facility Untreated Soil Reporting Form

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Air Permit No.: A013-172154
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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							
			Amount	Analytical Results											
		Sample	Vol. or	Metals									Totals		
Date	Reporting ID#	Number	Wt. cwt/m	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses
11/20/98	3002894 - 199800058	1.	13.33	BDL	134.	.61	9.7	2.2	BDL	BDL	BDL	BDL	1611.	BDL.	
11/23/98	3026901 - 199800009	1.	80.01	BDL	9.7	BDL	2.5	BDL	0.071	BDL	BDL	73.	1700.	BDL.	
11/24/98	3003039 - 199800016	3.	233.89	1.79	4.06	BDL	4.13	4.07	BDL	BDL	BDL	203.	51.33	BDL.	
11/24/98	3016638 - 199800001	5.	988.18	BDL	6.37	.05	2.87	5.63	BDL	.27	BDL	BDL	764.	BDL.	
11/25/98	3016752 - 199800003	1.	22.65	3.06	5.63	.029	5.27	2.42	<.036	.606	<1.43	300.9	580000.	BDL.	
11/25/98	3026926 - 199800017	1.	.23	1.8	23.4	0.94	36.5	134.	0.13	BDL	BDL	BDL	16900.	.280	
11/30/98	3002843 - 199800002	1.	135.62	4.	16.3	0.27	8.6	27.6	0.63	0.60	BDL	BDL	2636.	BDL.	
11/30/98	3003039 - 199800015	1.	13.69	1.90	3.9	BDL	3.20	2.00	BDL	BDL	BDL	442.	191.	BDL.	

*

* SEE ATTACHMENT "A"

**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 NOV. Year 1998

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Amount Volume or Weight cy/tn	5 Analytical Results										Source	
				Metals				Totals							
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH		
10-Nov															
3026926-	199800016														
untreated	analysis														
blending	soil			2.2	38	0.12	15.3	114	BDL	BDL	BDL				FPL TURKEY PT
blending	soil							BDL							Blended 1 - 1
								2.07							
12-Nov															
3002894-	199800057														
untreated	analysis														
blending	soil			3.1	35.3	2.61	12.4	311	5.89	BDL	0.2				CBI PLANT
blending	soil							BDL							Blended 3 - 1
								16.2							
25-Nov															
3026926-	199800017														
untreated	analysis														
blending	soil			1.8	23.4	0.94	36.5	134	0.13	BDL	BDL				TITAN MARITIME
blending	soil							BDL							Blended 1 - 1
								BDL							
untreated	analysis														
blending	soil														
blending	soil														

RINKER Environmental Services, INC.

COMPOAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 12/15/98
SAMPLE DATE 11/10/98
SAMPLE SOURCE FPL - TURKEY POINT
REFERENCE # 3026926-98016
R.E.S. NUMBER 11376/11377
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	16.3	BDL	2.07	mg/kg	7420	1	100	12/8/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit



Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

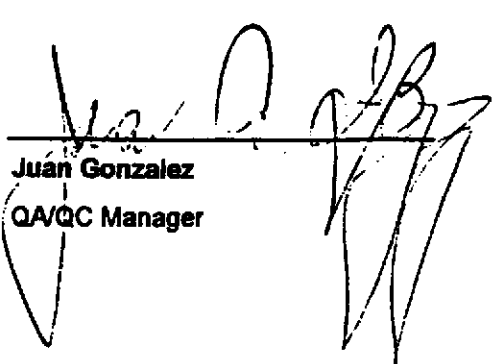
Material Analysis Report

REPORT DATE 12/15/98
SAMPLE DATE
SAMPLE SOURCE CBI - MIAMI PLANT
REFERENCE # 3002894-98057
R.E.S. NUMBER 11378/11379
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	0.97	BDL	16.2	mg/kg	7420	1	100	12/8/98	PEP

BLEND = 1 Contaminated With 3 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 12/15/98
SAMPLE DATE 11/25/98
SAMPLE SOURCE TITAN MARITIME
REFERENCE #
R.E.S. NUMBER 11393
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	134	BDL	BLEND	mg/kg	7420	1	100	12/8/98	PEP

BLEND = 1 Contaminated With 2 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager



RINKER ENVIRONMENTAL SERVICES
1200 N.W. 137th AVENUE
MIAMI, FL 33182
PHONE # 305-225-1423 / 225-1427
800-228-7847
FAX # 305-220-8875

DATE: 1/11/99

TO: Jorge P. Ponce **FROM:** Don E. Egan

ATTN: _____

NUMBER OF PAGES INCLUDING COVER: 5

COMMENTS: _____

மேலும் படிக்க.
அருண். பி. மாரிசு

Name of Facility: **RUNKER MATERIALS CORP.**
 Permit No: **A013-172154**
 All Treatment Permit No: **SW-01117-91**
 Issuance: **LOCK or Mobile Facility**

Month	Year
-------	------

[illegible]

DER Form 17-119 (06/07)

Name of Facility: KONKER MATERIALS CORP
 Air Permit No: AD13-172154
 Oil Treatment Permit No: SW-0117-91
 Unitary:XXX or Mobile Facility.

[illegible]

Year

Name of Facility: RINKER MATERIALS CORP
Air Permit No: A013-472154
Soil Treatment Permit No: SW-09117-91
Stationary, SOX or Mobile Facility:

[illegible]

DEB Form 12-773 500/31

Name of Facility: **RIKNER MATERIALS CORP.**
(or Permit No: **A013-172154**)
Oil Treatment Permit No: **SW-0117-91**
Location: **XXX at Mobile Facility.**

Year	Week
------	------

[illegible]

Rinker Environmental Services

1200 N.W. 137th Avenue
Miami, FL 33182

Telephone (800) 226-7647
(305) 225-1423
Facsimile (305) 220-9875

Materials Analysis Report

REPORT DATE	11/9/98	DATE SAMPLED	10/25/98
SAMPLE SOURCE	CBI	DATE RECEIVED	10/29/98
SAMPLE LOCATION	MIAMI	REFERENCE #	CBI
COLLECTED BY	JD	R.E.S. NUMBER	11094
SAMPLE TYPE	soil	PAGE	Page 1 of 2

PARAMETER	RESULTS	UNITS	METHOD	DETECTION LIMITS	ANALYSIS DATE	ANALYST INITIAL
Arsenic	3.1	mg/kg	7060	0.5	10/30/98	PEP
Barium	35.3	mg/kg	7081	0.9	11/2/98	PEP
Cadmium	2.61	mg/kg	7131	0.02	11/2/98	PEP
Chromium	12.4	mg/kg	7191	0.8	11/1/98	PEP
Mercury	5.89	mg/kg	7471A	0.08	11/2/98	PEP
Lead	311	mg/kg	7421	0.1	11/2/98	PEP
Selenium	BDL	mg/kg	7740	0.4	10/30/98	PEP
Silver	0.2	mg/kg	7761	0.1	11/3/98	PEP
Chloromethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Bromomethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Vinyl Chloride	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Dichlorodifluoromethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Chloroethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Methylene Chloride	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Trichlorofluoromethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,1-Dichloroethene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,1-Dichloroethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
trans-1,2-Dichloroethene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Chloroform	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,2-Dichloroethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,1,1-Trichloroethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Carbon Tetrachloride	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Bromodichloromethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,2-Dichloropropane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
cis-1,3-Dichloropropene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Trichloroethene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,1,2-Trichloroethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,1,2,2-Tetrachloroethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
trans-1,3-Dichloropropene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Dibromochloromethane	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Bromoform	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Tetrachloroethene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP

REPORT DATE 11/9/98
SAMPLE SOURCE CBI
SAMPLE LOCATION MIAMI
COLLECTED BY JD
SAMPLE TYPE soil

DATE SAMPLED 10/25/98
DATE RECEIVED 10/29/98
REFERENCE # CBI
R.E.S. NUMBER 11094
PAGE Page 2 of 2

PARAMETER	RESULT	UNITS	METHOD	D. LIMITS	ANALYSIS DATE	ANAL. INITIAL
MTBE	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Benzene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Toluene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Ethylbenzene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
p-Xylene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
Chlorobenzene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
m-Xylene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
o-Xylene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,4-Dichlorobenzene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,3-Dichlorobenzene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
1,2-Dichlorobenzene	BDL	ug/kg	5030/8021	150	11/4/98	JSP/AP
TRH	1,865	mg/kg	9073	1	10/30/98	AP
Halogens	1,700	mg/kg	9020	100	10/30/98	AP
TCLP Pb	0.16	mg/L	1311	0.04	11/5/98	PEP
TOX	BDL	mg/kg	9076	100	11/9/98	AP

BDL = Below Detection Limits

* Compounds are Screened Only, with an estimated detection limit.

All analyses were performed using EPA, ASTM, USGS, or Standards Methods.

All analyses were performed within EPA holding times unless otherwise noted.

Analyses are reported in dry weight unless otherwise indicated by units.

QAP # 950491

HRS# E86536

Respectfully submitted,


Juan A. Gonzalez
QA/QC Manager