

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

Name of Facility RINKER MATERIALS CORP.
Location 1200 N.W. 137th AVE, MIAMI, FL 33182
General Permit No. SO 13-195017 Date of Inspection 2/22/93
Contact Person DAVE MARPLE
Person Completing Report LEE MARTIN/PEGGY HIGHSMITH

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 10/26/92 end date 1/22/93
- ☒ 11. Are treated soil reporting forms being properly completed? starting date 10/26/92 end date 2/7/93

12. Indicate frequency clean soil criteria is being met?
- 60 % TRPH - 10 mg/kg, or
 - 40 % 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 88,700 mg/kg, median 3807 mg/kg
 - VOA BDL mg/kg to 348,000 mg/kg, median 3541 mg/kg
 - Arsenic BDL mg/kg to 9.5 mg/kg
 - Barium BDL mg/kg to 1120 mg/kg
 - Cadmium BDL mg/kg to 78.1 mg/kg *
 - Chromium BDL mg/kg to 84 mg/kg **
 - Lead BDL mg/kg to 96.35 mg/kg
 - Mercury BDL mg/kg to .54 mg/kg
 - Selenium BDL mg/kg to 11.7 mg/kg
 - Silver BDL mg/kg to 5.5 mg/kg
14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
- TRPH 3.7 mg/kg to 30.2 mg/kg, median 9.7 mg/kg
 - VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
 - Arsenic BDL mg/kg to 3.1 mg/kg
 - Barium 17 mg/kg to 48.8 mg/kg
 - Cadmium BDL mg/kg to BDL mg/kg
 - Chromium BDL mg/kg to 170 mg/kg
 - Lead BDL mg/kg to 7.8 mg/kg
 - Mercury BDL mg/kg to BDL mg/kg
 - Selenium BDL mg/kg to BDL mg/kg
 - Silver BDL mg/kg to 3.3 mg/kg
 - _____ mg/kg to _____ mg/kg
 - _____ mg/kg to _____ mg/kg

Comments:

* = THIS REPRESENTS ONE LOAD REC'D (12.19 tons) BEFORE THE NEW RULE BECAME EFFECTIVE; HOWEVER, IT EXCEEDS BOTH OLD AND NEW CRITERIA. FOLLOW-UP INDICATES

** = THIS REPRESENTS ONE OF FOUR BATCHES FROM A SINGLE SITE. THE OTHERS WERE RECEIVED BEFORE THE RULE CHANGE AND WERE BELOW THE OLD CRITERIA. THE LAST BATCH (2108 tons) WAS MIXED WITH OTHER UNTREATED SOILS.

William L. Martin
Signature

Date



Florida Department of Environmental Regulation

Southeast District

P.O. Box 15425

West Palm Beach, Florida 33416

Lawton Chiles, Governor

1900 S. Congress Ave., Suite A

Virginia B. Wetherell, Secretary

Telephone: 407/433-2650

Fax: 407/433-2666

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

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 2/22/93

TIME 10:45

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: ☐ 17-2, F.A.C. ☒ 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 Peggy Highsmith, 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

A 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. The recent change to 17-775 has not been adopted by DERM at this time; therefore, for the metals criteria for clean soil Rinker uses the lowest value between the old and new criteria in order to satisfy both agencies in the interim. At the time of the inspection the new soil storage facility is in use and the old temporary soil storage facility has been approved for closure. Contaminated soils have been removed from the perimeter of the old facility concrete slab with soil sampling for confirmation and groundwater sampling has been performed using the four wells around the slab for two consecutive quarters with no indication of contamination. 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. Rinker has received approval for a trial burn using 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. Several trial burns have been completed with satisfactory results. Dave Marple estimates the kiln could burn as many as 4,000,000 tires per year.

Additionally, the afterburner system for the petroleum contaminated soils is in operation, although the soils process through a preliminary kiln and 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 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. Minimal water has been collected to date. No standing water was observed around the perimeter on the Northeast corner of the facility on this visit. An additional interior concrete curb, with a water stop, sloping away from the Northeast front wall toward the interior of the facility has been installed. The previous standing water outside exhibited an algae growth, mosquito larvae, and a slight sheen but a water sample taken and analyzed in Rinker's lab indicated no volatiles present. This should be watched in the future. The points along the outside wall approximately two feet off the floor previously discharging small quantities of water around previously plugged holes appear to have subsided. The small quantities, the presence of iron staining, and the absence of any odor or sheen indicate this may be internal condensation draining. This should be watched in the future and investigated if it increases. The four groundwater wells off the corners of the facility 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.

The improved screening capability and metal removal by magnetic methods remain in operation. 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. Repairs due to damage attributed to Hurricane Andrew appeared complete. Skylight sections had been replaced, the metal wall fascade panels and the roof gutters had been repaired or replaced. Dave Marple indicated they are considering a relocation of the leachate tank from inside the building to outside the building in a secondary containment and would be forwarding a proposal to the Department for approval.

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 one untreated soil batch (#278-92045), received 11/13/92, exceeded the old cadmium clean soil criteria; however, follow-up indicates this was a misprint and all soils were below both the old and new cadmium criteria. Laboratory results were provided which confirmed this was a misprint and soils were received below the appropriate criteria. One other exceedance involved chromium; however, the batch (#305-92003), received 12/8/92, was the last of four batches received from a single site. The other three batches were received within the week before the rule change and were below the old criteria. Batch #305-92003, approx. 108 tons, was mixed with other untreated soils. No treated soils analyzed since the last visit through February 7, 1993 exceeded the metals, VOA, or TRPH criteria for clean soil in 17-775, FAC.

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.

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Florida Department of Environmental Regulation
Soil 1 Treatment Facility
Reporting Form

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

Month: _____ Year: _____

				6		7		8		9		10		11			
Analytical Results																	
Total Metals																	
TCLP Metals																	
Totals																	
1	2	3	4	5	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	
6-22		42	168	1127	3.2	30	1.4	19	6.6	60L	60L	1.7	60L	36	60L	60L	7.2
6-28		42	168	1027	2.4	23.6	1.2	148	5.1	60L	60L	1.7	60L	43	60L	60L	18.2
7-5		42	168	1181	2.2	22.2	1.2	18.2	6.1	60L	60L	3.3	60L	52	60L	60L	9.4
7-12		42	168	1211	1.9	21.2	60L	12.3	6.3	60L	60L	2.7	60L	35	60L	60L	13.3
7-19		42	168	827	1.6	24.3	60L	12.3	9.2	60L	60L	3.6	60L	27	60L	60L	11.7
7-26		42	168	1754	1.4	13.5	60L	8.9	3.7	60L	60L	60L	60L	28	60L	60L	60L
8-2		42	168	1564	1.9	27.5	60L	14.1	11.5	60L	60L	2.0	60L	26	60L	60L	4.7
8-9		42	168	1153	60L	23.9	60L	1.0	6.1	60L	60L	60L	60L	13	60L	60L	27.4
8-16		42	168	630	2.7	29.8	60L	11.5	6.9	60L	60L	60L	60L	25	60L	60L	15.8
8-23		42	168	404	2.6	26.6	60L	14.1	7.4	60L	60L	60L	60L	33	60L	60L	17.9
8-30		42	168	1229	60L	24.6	60L	60L	2.5	60L	60L	2.2	60L	43	60L	60L	9.5
9-6		42	168	1829	60L	23.6	60L	12.7	4.4	60L	60L	60L	60L	25	60L	60L	6.6
9-13		42	168	1477	60L	24.0	60L	10.2	6.7	60L	60L	60L	60L	82	60L	60L	16.9
9-20		42	168	1458	1.6	20.0	60L	12.0	5.1	60L	60L	60L	60L	37	60L	60L	6.5
9-27		42	168	1244	1.4	26.4	60L	10.5	5.2	60L	60L	60L	60L	42	60L	60L	2.1
9-28		42	168	1266	1.3	23.8	60L	11.1	5.4	60L	60L	60L	60L	32	60L	60L	13.5
10-5		42	168	1182	1.4	19.3	60L	12.1	6.5	60L	60L	60L	60L	26	60L	60L	82.0
10-12		42	168	190	1.5	23.8	60L	17.8	9.8	60L	60L	60L	60L	29	60L	60L	10.5
10-19		42	168	1611	60L	20.7	60L	9.1	7.8	60L	60L	3.2	60L	25	60L	60L	11.1
10-26		42	168	849	1.8	29.2	60L	12.0	4.6	60L	60L	3.3	60L	39	60L	60L	5.4
11-2		42	168														
11-9		42	168														

See reverse side for instructions

Florida Department of Environmental Regulation
Soil Treatment Facility
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																				
					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	
11-9		42	168		90L 17	80L 6.5	2.4	80L 1.3	80L 1.4	80L 1.4	80L 1.4	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	9.3			
11-15		42	168		80L 318	80L 10.8	7.8	80L 2.2	80L 2.3	80L 2.3	80L 2.3	80L 2.2	80L 2.2	80L 2.2	80L 2.2	80L 2.2	80L 2.2	80L 2.2	80L 2.2	80L 2.2	80L 2.2	16.8	80L	80L	
11-16		42	168		80L 318	80L 10.0	4.9	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	5.1			
11-23		42	168		3.1 35	80L 13.9	5.4	80L 1.3	80L 1.4	80L 1.4	80L 1.4	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	12.7	80L	80L	
11-24		42	168		80L 228	80L 8.0	8.0	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	80L 1.3	18.5	80L	80L	
11-25		42	168		80L 38.1	80L 8.0	3.0	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1	80L 2.1			
11-26		42	168		80L 279	80L 10.9	4.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	80L 1.4	7.8			
11-27		42	168		1.9 38.8	80L 16.5	6.0	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L 2.8	80L		
11-28		42	168		1.4 35.8	80L 9.0	5.6	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	80L 3.3	7.9	80L	80L	
11-29		42	168		1.4 40.2	80L 8.5	5.2	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	80L 3.0	3.7	80L	80L	
11-30		42	168		80L 46	80L 8.0	8.0	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	16.9	80L	80L	
11-31		42	168		1.5 47.5	80L 11.5	6.0	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 1.5	80L 2.1			
12-1		42	168		80L 488	80L 8.4	5.8	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	80L 2.5	30.2	80L	80L	
12-2																									
																				</					

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Florida Department of Environmental Regulation

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32398-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Month: JANUARY Year: 1993

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

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

1	2	3	4	5					6	7	8	9			
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight	Analytical Results											
				Metals								Totals			
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only
01/14/93	334-93001	15	1039.59	BDL	9.56	BDL	4.23	3.97	BDL	BDL	.54	BDL	1394	BDL	
01/14/93	335-93001	2	115.97	1.8	5.4	BDL	6.3	34.1	BDL	BDL	BDL	9591	319.5	BDL	
01/15/93	111-93010	3	34.39	BDL	4.73	BDL	4.5	9.6	.13	BDL	.47	BDL	61.3	BDL	
01/15/93	273-9301A	1	21.17	BDL	BDL	BDL	8.3	5.5	BDL	BDL	BDL	BDL	100	BDL	
01/15/93	334-93001	15	1405.07	BDL	9.56	BDL	4.23	3.97	BDL	BDL	.54	BDL	1394	BDL	
01/16/93	111-93011	1	102.51	.057	1.75	<.05	1.54	8.41	.00597	.0331	.0771	9	113	BDL	
01/16/93	334-93001	15	918.83	BDL	9.56	BDL	4.23	3.97	BDL	BDL	.54	BDL	1394	BDL	
01/18/93	338-93001	9	50.11	5.25	43.7	<.5	15.2	15.78	.146	<.2	<.1	BDL	11844	BDL	
01/19/93	111-93010	3	79.11	BDL	4.73	BDL	4.5	9.6	.13	BDL	.47	BDL	61.3	BDL	
01/19/93	302-93003	1	11.43	2.1	15.0	BDL	4.4	10.0	BDL	BDL	BDL	BDL	145	BDL	
01/19/93	334-93001	15	935.54	BDL	9.56	BDL	4.23	3.97	BDL	BDL	.54	BDL	1394	BDL	
01/19/93	337-93001	1	1.27	1.2	3.8	<.64	10.5	<.5	<.12	2.84	3.1	28700	12200	BDL	
01/19/93	338-93001	8	33.30	5.25	43.7	<.5	15.2	15.78	.146	<.2	<.1	BDL	11844	BDL	
01/19/93	339-93001	1	19.29	BDL	52	BDL	10.2	37.1	BDL	BDL	3.3	BDL	117	BDL	
01/20/93	311-93005	3	42.72	0.95	51.30	0.32	4.68	21.60	<.01	1.78	0.14	<14.00	78.68	BDL	
01/20/93	334-93001	15	605.19	BDL	9.56	BDL	4.23	3.97	BDL	BDL	.54	BDL	1394	BDL	
01/20/93	338-93001	1	26.34	1.0	10.0	BDL	6.4	10	BDL	BDL	BDL	BDL	260	BDL	
01/21/93	111-93012	1	22.27	BDL	3.7	BDL	2.1	BDL	BDL	BDL	1.5	BDL	279	BDL	
01/21/93	114-93008	1	11.82	BDL	3.1	BDL	2.6	8.2	BDL	BDL	2.1	BDL	88700	BDL	
01/21/93	269-93002	1	12.23	.8	<.5	4.8	6.5	59.1	.54	2	<.5	BDL	2285	BDL	
01/21/93	302-93004	1	97.89	BDL	BDL	BDL	1.1	0.6	BDL	BDL	BDL	BDL	1500	BDL	
01/21/93	334-93001	15	493.94	BDL	9.56	BDL	4.23	3.97	BDL	BDL	.54	BDL	1394	BDL	
01/22/93	101-93001	1	12.83	8.1	120	BDL	6.8	5.5	BDL	BDL	BDL	BDL	7.7	BDL	
01/22/93	111-93013	1	18.19	1.87	27.4	BDL	25.5	6.76	.180	BDL	.991	22.4	3150	BDL	
01/22/93	134-93001	1	19.02	1.5	4.3	BDL	3.3	5.8	BDL	BDL	BDL	BDL	14.3	BDL	
01/22/93	297-93003	1	72.47	BDL	6.5	BDL	4.0	24	BDL	BDL	BDL	295	323	BDL	
01/22/93	338-9301A	9	37.13	5.25	43.7	<.5	15.2	15.78	.046	<.2	<.1	BDL	11844	BDL	

Florida Department of Environmental Regulation

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32398-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

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 Air Permit No.: A013-172154
 Soil Treatment Permit No.: SW-01117-91
 Stationary XXX or Mobile Facility:

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Form Title	Soil Thermal Treatment Facility
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				Metals											Totals			Indicate Other Analyses	
			cy/tn	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only				
01/04/83	103-93003	3	174.84	<4	2	<5	3.17	2.19	<.02	<1	<1	<351	14.10	BDL					
01/04/83	111-93004	1	0.57	BDL	BDL	BDL	5	BDL	BDL	BDL	BDL	BDL	13	BDL					
01/04/83	111-93008	1	0.92	BDL	3.1	BDL	1.60	BDL	BDL	BDL	.1	BDL	22	BDL					
01/04/83	269-93001	1	3.39	8.32	68.6	<0.50	2.91	<5.00	<0.072	<0.50	0.83	BDL	76.8	BDL					
01/04/83	297-93001	3	15.50	BDL	4.1	BDL	BDL	18.6	BDL	BDL	BDL	BDL	140	BDL					
01/05/83	103-93003	3	165.55	<4	2	<5	3.17	2.19	<.02	<1	<1	<351	14.10	BDL					
01/05/83	111-93006	1	0.74	.337	4.38	<0.05	3.66	13.6	.0139	.0246	.0514	<9	160	BDL					
01/05/83	111-93007	1	1.43	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	4800	BDL					
01/05/93	114-93001	3	273.55	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.29	6100	BDL					
01/05/93	114-93004	3	107.25	1.63	66.13	<8	10.43	40.4	<.05	<4	<1.8	11122	408	BDL					
01/05/93	240-93001	1	4.47	1.14	6.92	.57	1.22	9.74	<.01	2.83	.02	<12	660	BDL					
01/06/93	103-93003	3	51.69	<4	2	<5	3.17	2.19	<.02	<1	<1	<351	14.10	BDL					
01/06/93	283-93011	13	579.78	<1.1	14	<5	8.0	50.8	<.03	<1	<1	BDL	6800	BDL					
01/07/93	136-93003	5	43.20	1.8	29.2	<5	8.88	44.8	.19	<1	<1	BDL	264	BDL					
01/08/93	111-93005	1	2.62	0.116	1.61	<.0500	0.902	<.0200	0.0135	0.0193	<.0500	1085	31.7	BDL					
01/11/93	243-93003	3	15.61	1.43	112	BDL	17.98	68.8	BDL	BDL	BDL	<29	54.7	BDL					
01/12/93	243-93003	3	19.99	1.43	112	BDL	17.98	68.8	BDL	BDL	BDL	<29	54.7	BDL					
01/13/93	108-93003	1	62.79	<1	2.6	<10	3.0	15	.17	<1	<1	BDL	4000	BDL					
01/13/93	114-93007	1	0.66	2.6	9.5	BDL	5.4	19	BDL	BDL	BDL	167	1800	BDL					
01/13/93	114-93008	1	1.32	BDL	2.4	BDL	2.0	BDL	BDL	BDL	BDL	125	BDL	BDL					
01/13/93	114-93009	1	0.68	BDL	6	BDL	8	13	BDL	BDL	BDL	BDL	6400	BDL					
01/13/93	114-93010	1	2.31	BDL	2.4	BDL	2.6	BDL	BDL	BDL	BDL	BDL	54.9	BDL					
01/13/93	114-93011	1	2.64	BDL	2.3	BDL	9.7	2.5	BDL	BDL	BDL	120000	44000	BDL					
01/13/93	273-93001	1	25.77	BDL	BDL	BDL	8.3	5.5	BDL	BDL	BDL	BDL	100	BDL					
01/14/93	111-93010	3	29.19	BDL	4.73	BDL	4.5	9.6	.13	BDL	.47	BDL	61.3	BDL					
01/14/93	117-93001	1	25.29	BDL	72	BDL	17	6.8	BDL	BDL	BDL	7725	3600	BDL					
01/14/93	243-93003	3	62.66	1.43	112	BDL	17.98	68.8	BDL	BDL	BDL	<29	54.7	BDL					

Twin Towers Office Bldg. 2800 Blair Stone Road Tallahassee, Florida 32309-2400

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Soil Thermal Treatment Facility Untreated Soil Reporting Form

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Air Permit No.: A013-172154

Soil Treatment Permit No.: SW-01117-91

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

[illegible]

Florida Department of Environmental Regulation

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Month: JANUARY Year: 1993

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Soil Treatment Permit No.: SW-01117-91
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Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results											
				Metals					Totals						
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only
01/23/93	111-9311A	1	2.36	.057	1.75	<.05	1.54	8.41	.00597	.0331	.0771	9	113	BDL	
12/21/92	103-93001	3	183.34	1.58	19.24	<.05	15.23	5.70	.04	0.21	<1	7.27	236.34	BDL	
12/21/92	243-93003	3	47.60	1.43	112	BDL	17.96	68.8	BDL	BDL	BDL	<29	54.7	BDL	
12/21/92	243-93010	1	45.52	3.8	6.4	BDL	4.2	33.7	BDL	BDL	BDL	5030	4200	BDL	
12/21/92	297-93001	3	98.92	BDL	4.1	BDL	BDL	18.6	BDL	BDL	BDL	BDL	140	BDL	
12/22/92	106-93001	1	0.15	0.0214	0.369	<.0500	0.351	0.868	0.0900	<.0020	<.0500	<80.0	29100	BDL	
12/22/92	106-93002	1	0.39	0.58	151	<.05	8.7	6.9	<.050	<.040	3.0	BDL	<5.0	BDL	
12/22/92	243-93010	1	98.41	3.8	6.4	BDL	4.2	33.7	BDL	BDL	BDL	5030	4200	BDL	
12/22/92	297-93002	1	65.34	5.50	BDL	BDL	15.1	27.1	0.054	BDL	5.50	BDL	12000	BDL	
12/22/92	302-93002	3	88.21	4.47	14.47	BDL	6.2	14.73	BDL	BDL	BDL	BDL	37.6	BDL	
12/22/92	311-93004	1	34.75	3.10	20.52	.04	4.77	1.14	<.01	1.42	.03	<12	28	BDL	
12/22/92	332-93001	1	10.96	<1.00	3.4	<.050	1.9030	11.0	<.030	<1.0	<1.0	<88.30	2000	BDL	
12/23/92	111-93008	3	20.62	.724	11.7	.19	7.74	44.6	.022	.088	<.168	<24.27	514	BDL	
12/23/92	243-93010	1	93.26	3.8	6.4	BDL	4.2	33.7	BDL	BDL	BDL	5030	4200	BDL	
12/23/92	311-93004	1	19.66	3.10	20.52	.04	4.77	1.14	<.01	1.42	.03	<12	28	BDL	
12/24/92	114-93001	3	19.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.29	8100	BDL	
12/24/92	138-93001	3	149.96	<1.0	4.0	<.050	5.0	3.6	<.030	<1.0	<1.0	BDL	970	BDL	
12/24/92	138-93002	3	97.44	8.4	4.8	<.050	41	20	<.030	<1.0	<1.0	BDL	3300	BDL	
12/28/92	114-93001	3	98.81	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.29	6100	BDL	
12/28/92	138-93001	3	24.13	<1.0	4.0	<.050	5.0	3.6	<.030	<1.0	<1.0	BDL	970	BDL	
12/28/92	138-93002	3	180.39	8.4	4.8	<.050	41	20	<.030	<1.0	<1.0	BDL	3300	BDL	
12/28/92	243-93003	3	74.87	1.43	112	BDL	17.96	68.8	BDL	BDL	BDL	<29	54.7	BDL	
12/29/92	103-93022	3	80.45	BDL	2.4	BDL	2.3	1.3	BDL	BDL	BDL	BDL	69	BDL	
12/29/92	103-9322A	3	4.55	BDL	2.07	BDL	1.54	4.77	BDL	BDL	BDL	BDL	82.67	BDL	
12/29/92	243-93001	3	79.32	2.9	10	BDL	2.6	14.96	BDL	BDL	BDL	BDL	3776	BDL	
12/30/92	111-93001	1	17.07	BDL	6.0	BDL	2.9	1.6	BDL	BDL	2.0	BDL	23.4	BDL	
12/30/92	114-93002	1	7.87	<5.0	<20.0	<10.0	<20.0	<5.0	<.050	<5.0	<10.0	2	BDL	BDL	

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

DER Form	17-775.900(2)
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Effective Date	
DER Application No	

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				Metals											Totals			
				AS	BA	CD	CR	PB	HQ	SE	AG	VOA	RPH	VOH	Indicate Other Analyses			
														Attach Lab Results Only				
12/04/92	308-92004	1	40.18	.86	3.68	.01	2.85	5.44	<.81	1.37	3.59	<12	1250	BDL				
12/07/92	293-92011	13	2.59	<1.1	14	<.5	8.0	50.8	<.03	<1	<1	BDL	6800	BDL				
12/07/92	322-92011	3	199.63	1.18	BDL	BDL	7.17	19.67	BDL	BDL	BDL	BDL	454	BDL				
12/07/92	326-92001	1	35.04	BDL	1.6	BDL	2.3	3.0	BDL	BDL	BDL	BDL	73.8	BDL				
12/08/92	305-92003	3	107.79	6.5	<10	9.6	84	41.5	<.05	<.04	2.2	248	17053	BDL				
12/08/92	323-92001	1	36.53	.005	12.58	BDL	BDL	.088	.055	BDL	BDL	9870	10	BDL				
12/09/92	278-92050	6	488.09	4.28	97.87	<.8	7.9	96.35	.112	<.37	1.81	22.5	4228.3	BDL				
12/10/92	237-92002	1	12.33	3.81	31.20	BDL	9.800	BDL	BDL	BDL	3.800	155	1063	BDL				
12/10/92	278-92050	6	602.22	4.28	97.87	<.8	7.9	96.35	.112	<.37	1.81	22.5	4226.3	BDL				
12/10/92	324-92001	1	8.33	.58	<10	.6	<.5	15.9	<.02	.8	<1	<57.26	2600	61.5 PPM				
12/10/92	324-92002	1	44.98	<.5	<10	2	<.5	<.5	<.02	<.5	<1	53.7	<.5	<4 PPB				
12/11/92	111-92254	1	0.35	BDL	BDL	BDL	21.0	.988	.054	BDL	BDL	26850	33.3	BDL				
12/11/92	111-92260	1	0.65	BDL	BDL	BDL	1.4	7.8	BDL	BDL	BDL	BDL	312	BDL				
12/11/92	111-92261	1	0.70	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	350	BDL				
12/11/92	278-92050	6	137.02	4.28	97.87	<.8	7.9	96.35	.112	<.37	1.81	22.5	4228.3	BDL				
12/11/92	293-92011	13	883.05	<1.1	14	<.5	8.0	50.8	<.03	<1	<1	BDL	6800	BDL				
12/11/92	302-92008	3	310.52	1.5	7.47	BDL	3.10	1.87	BDL	BDL	BDL	370	40	BDL				
12/14/92	111-92257	3	92.42	.724	11.7	.19	7.74	44.6	.022	.088	<.168	<24.27	514	BDL				
12/14/92	302-92008	3	590.93	1.5	7.47	BDL	3.10	1.87	BDL	BDL	BDL	370	40	BDL				
12/15/92	111-92257	3	153.77	.724	11.7	.19	7.74	44.6	.022	.088	<.168	<24.27	514	BDL				
12/15/92	243-92009	3	47.45	2.9	10	BDL	2.6	14.96	BDL	BDL	BDL	BDL	3776	BDL				
12/15/92	293-92011	13	292.47	<1.1	14	<.5	8.0	50.8	<.03	<1	<1	BDL	6800	BDL				
12/15/92	302-92008	3	159.83	1.5	7.47	BDL	3.10	1.87	BDL	BDL	BDL	370	40	BDL				
12/15/92	302-92009	1	2.46	6.5	21.2	BDL	3.9	1.3	BDL	BDL	BDL	BDL	17	BDL				
12/16/92	278-92051	1	81.82	1.79	BDL	BDL	7.12	25.2	BDL	0.786	BDL	0.323	9200	BDL				
12/16/92	293-92011	13	81.58	<1.1	14	<.5	8.0	50.8	<.03	<1	<1	BDL	6800	BDL				
12/16/92	330-92001	3	148.38	BDL	6.1	BDL	2.0	3.3	BDL	BDL	BDL	1075	46	VDL				

Florida Department of Environmental Regulation

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				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only		
11/23/92	106-92198	1	141.81	4.3	<10.0	<0.80	18.3	7.3	<0.050	<0.40	3.2	11	1247				
11/23/92	111-92258	1	1.89	0.73	11.72	0.20	7.74	44.60	0.03	0.09	0.11	8.90	514.34				
11/23/92	278-92048	1	34.14	BDL	2.85	BDL	.05	1.80	BDL	BDL	BDL	880	20				
11/23/92	305-92003	3	189.14	6.5	<10	9.6	84	41.5	<0.5	<0.4	2.2	246	17053	BDL			
11/23/92	322-92012	1	17.32	BDL	BDL	BDL	1.4	2.0	BDL	BDL	BDL	BDL	20				
11/23/92	322-92013	1	88.80	BDL	BDL	BDL	8.0	29	BDL	BDL	BDL	BDL	167				
11/24/92	103-92023	1	3.42	<2	4	<5	1.7	11.3	<0.2	<5	<1	3040	<5				
11/24/92	103-92024	1	2.03	<0.4	3	<0.5	3.7	4.8	<0.02	<1	<1	271	20.0				
11/24/92	278-92047	1	20.59	BDL	BDL	BDL	32	25.7	BDL	BDL	BDL	.23	1520				
11/24/92	278-92049	1	23.94	.996	BDL	BDL	10.3	16.6	.13	BDL	BDL	124	375				
11/24/92	305-92003	3	57.18	8.5	<10	9.8	84	41.5	<0.5	<0.4	2.2	246	17053	BDL			
11/25/92	278-92049	1	45.42	.996	BDL	BDL	10.3	16.6	.13	BDL	BDL	124	375				
11/25/92	305-92003	3	47.89	8.5	<10	9.8	84	41.5	<0.5	<0.4	2.2	246	17053	BDL			
11/25/92	328-92001	1	51.28	BDL	BDL	BDL	BDL	7.9	BDL	BDL	BDL	34740	19000				
11/30/92	103-92023	1	3.42	<2	4	<5	1.7	11.3	<0.2	<5	<1	3040	<5				
11/30/92	111-92255	1	2.37	.337	4.38	<0.5	3.86	13.6	.0139	.0246	.0514	<9	160				
11/30/92	293-92011	13	608.01	<1.1	14	<5	8.0	50.8	<0.3	<1	<1	BDL	8800	BDL			
12/01/92	103-92022	1	104.99	BDL	2.4	BDL	2.3	1.3	BDL	BDL	BDL	BDL	69	BDL			
12/01/92	293-92011	13	1035.37	<1.1	14	<5	8.0	50.8	<0.3	<1	<1	BDL	8800	BDL			
12/01/92	327-92001	1	13.30	BDL	5.0	BDL	1.7	19.3	BDL	BDL	BDL	135	17250	BDL			
12/02/92	103-92021	1	18.40	1.4	4.7	BDL	9.7	14	0.048	BDL	BDL	BDL	100	BDL			
12/02/92	138-92016	8	140.57	1.8	29.2	<5	8.88	44.8	.19	<1	<1	BDL	264	BDL			
12/03/92	111-92256	1	1.76	BDL	3.1	BDL	1.60	BDL	BDL	BDL	.1	BDL	22	BDL			
12/03/92	325-92001	1	59.83	BDL	BDL	BDL	3.6	32.0	BDL	BDL	BDL	BDL	2000	BDL			
12/04/92	111-92256	1	1.94	BDL	3.1	BDL	1.60	BDL	BDL	BDL	.1	BDL	22	BDL			
12/04/92	269-92002	1	27.58	<1	17	<1	1.6	12	<1	<1	<1	20895.4	4086	BDL			
12/04/92	308-92003	1	42.88	.95	4.88	.08	.30	.98	<.01	.93	.05	<12	3600	BDL			

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

Year: 1992

775.900(2)

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:

Month: November Year: 1992

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		
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Indicate Other Analyses Attach Lab Results Only		
11/1/92	316-92001	1	19.98	<1	10	<0.1	3.1	14	<0.1	<1	<0.2	229	1800			
11/1/92	111-92237	1	2.93	0.73	11.72	0.20	7.74	44.60	0.03	0.09	0.11	8.90	514.34			
11/1/92	106-92187	1	0.79	227	5.10	<0.05	4.35	2.75	.00314	.0389	<0.05	<9	200			
11/1/92	106-92188	1	3.58	9.5	7.1	<5	13	18	.063	<1	<1	BDL	34000			
11/1/92	106-92187	1	0.58	<0.40	<10.0	<0.80	5.4	11.5	<0.050	<0.40	<1.8	BDL	<5.0			
11/1/92	111-92253	1	19.67	BDL	BDL	BDL	.9	1.8	BDL	BDL	BDL	BDL	6.7			
11/1/92	240-92022	1	74.13	4.80	16.97	0.07	4.08	2.65	<0.01	3.08	0.11	<12.00	<10.0			
11/1/92	278-92045	1	12.19	0.982	BDL	78.7	4.79	2.30	0.130	BDL	BDL	0.03	1240			
11/1/92	103-92019	1	20.60	BDL	8.3	BDL	4.0	21	BDL	BDL	BDL	BDL	170			
11/1/92	111-92238	1	36.65	BDL	2.8	BDL	2.2	BDL	BDL	BDL	BDL	BDL	635.0			
11/1/92	111-92240	3	141.45	1.01	13.27	0.31	8.40	44.57	0.01	0.13	0.06	<9.00	258.34			
11/1/92	111-92253	1	16.74	BDL	BDL	BDL	.9	1.8	BDL	BDL	BDL	BDL	6.7			
11/1/92	136-92014	5	575.83	1.8	29.2	<5	8.88	44.8	.19	<1	<1	BDL	264			
11/1/92	230-92007	3	504.78	.67	69.34	BDL	2.27	1.50	BDL	BDL	1.84	BDL	2783.67			
11/1/92	240-92022	1	5.07	4.80	16.97	0.07	4.08	2.65	<0.01	3.06	0.11	<12.00	<10.0			
11/1/92	287-92003	1	2.46	0.92	284	<0.80	21.1	40.8	<0.050	<0.40	2.5	8.540	31147			
11/1/92	318-92001	1	10.81	<1.0	6.3	<0.50	1.7	3.1	0.058	<1.0	<1.0	<160.00	16			
11/1/92	318-92001	1	8.63	BDL	10	BDL	2	11	BDL	1.9	3	BDL	3698			
11/1/92	322-92005	1	11.10	BDL	BDL	BDL	2.6	.7	BDL	BDL	BDL	BDL	98			
11/1/92	111-92250	1	0.27	.844	BDL	BDL	15.5	.43	.08	BDL	BDL	BDL	164			
11/1/92	111-92251	1	2.37	2.5	4.8	BDL	2.6	2.3	BDL	BDL	BDL	98000	88.3			
11/1/92	136-92014	5	19.03	1.8	29.2	<5	8.88	44.8	.19	<1	<1	BDL	264			
11/1/92	230-92007	3	170.15	.67	69.34	BDL	2.27	1.50	BDL	BDL	1.84	BDL	2783.67			
11/1/92	318-92001	1	11.15	<1.0	6.3	<0.50	1.7	3.1	0.058	<1.0	<1.0	<160.00	16			
11/1/92	321-92001	3	103.29	8.9	680	2.3	19.4	24.4	<0.7	<3	<3	BDL	816.7			
11/1/92	322-92008	1	16.47	.6	BDL	BDL	11	9.9	BDL	BDL	BDL	BDL	47			
11/1/92	103-92020	1	3.46	<0.4	3	<0.5	3.7	4.9	<0.02	<1	<1	271	20.0			

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 Stationary XXX or Mobile Facility:

Month: November Year: 1992

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 Attach Lab Results Only		
				Metals								Totals				
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH			
11/03/92	111-92243	1	7.84	8.36	8.82	<0.500	8.28	8.74	0.0197	0.0323	<0.500	<9.00	106			
11/03/92	136-92013	3	125.18	<1.0	2.0	<0.50	4.2	18	<0.030	<1.0	<1.0	101	9800			
11/03/92	235-92003	5	507.29	3.14	2.57	.034	11.52	<9.24	<0.6	.7	<1.5	124	5017.50			
11/04/92	111-92237	1	3.30	0.73	11.72	0.20	7.74	44.60	0.03	0.09	0.11	8.90	514.34			
11/04/92	136-92013	3	51.31	<1.0	2.0	<0.50	4.2	18	<0.030	<1.0	<1.0	101	9800			
11/04/92	235-92003	5	544.50	3.14	2.57	.034	11.52	<9.24	<0.6	.7	<1.5	124	5017.50			
11/05/92	106-92185	1	16.72	6.2	1120	<0.80	19.5	15.4	0.097	<0.40	2.6	BDL	1937			
11/05/92	111-92238	1	178.74	BDL	2.8	BDL	2.2	BDL	BDL	BDL	BDL	BDL	635.0			
11/05/92	136-92013	3	21.52	<1.0	2.0	<0.50	4.2	18	<0.030	<1.0	<1.0	101	9800			
11/05/92	235-92003	5	289.55	3.14	2.57	.034	11.52	<9.24	<0.6	.7	<1.5	124	5017.50			
11/05/92	278-92046	1	24.98	BDL	4.7	BDL	BDL	2.1	BDL	BDL	BDL	.033	34			
11/05/92	322-92004	3	141.13	0.70	BDL	BDL	5.00	17.50	BDL	BDL	BDL	BDL	260			
11/06/92	111-92239	1	2.00	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.8			
11/06/92	114-92051	1	17.69	BDL	15.7	BDL	2.5	10.8	BDL	BDL	BDL	7.4	9520			
11/06/92	273-92004	1	6.48	.359	13.4	1.11	13.3	26.6	.0229	.165	<.05	<11.87	<1			
11/06/92	111-92240	3	198.82	1.01	13.27	0.31	8.40	44.57	0.01	0.13	0.08	<9.00	258.34			
11/06/92	314-92001	1	1.82	0.005	1.578	0.291	0.085	0.208	<0.002	<0.002	0.055	<5508	<10			
11/10/92	111-92240	3	227.85	1.01	13.27	0.31	8.40	44.57	0.01	0.13	0.08	<9.00	258.34			
11/10/92	111-92249	1	1.81	BDL	2.5	BDL	3.6	3.8	BDL	BDL	BDL	BDL	41.5			
11/11/92	103-92016	1	3.07	BDL	3.5	BDL	3.5	2.0	BDL	BDL	BDL	BDL	48			
11/11/92	103-92017	1	5.70	2.5	15	<0.5	9	63	<0.02	<1	<1	1820	345.5			
11/11/92	103-92018	1	10.19	<5.0	1.8	BDL	BDL	0.85	BDL	BDL	BDL	310	1700			
11/11/92	111-92244	1	4.51	<1.0	11	<0.50	8.4	13	<0.030	<1.0	<1.0	10	1600			
11/11/92	114-92048	1	21.77	BDL	2.7	BDL	3.2	2.3	BDL	BDL	BDL	BDL	35			
11/11/92	114-92049	1	2.00	BDL	1.3	BDL	BDL	11.6	BDL	BDL	BDL	20900	22800			
11/11/92	114-92050	1	0.25	3.5	12.8	BDL	5.3	26.8	BDL	BDL	BDL	1500	3280			
11/11/92	240-92019	1	70.11	2.05	95.48	0.03	5.99	3.23	<0.01	8.20	<0.01	35.50	18.0			

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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 Attach Lab Results Only
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH			
10/26/92	106-92186	1	1.55	BDL	79	BDL	4.0	BDL	BDL	BDL	BDL	1.0	7820	79		
10/26/92	106-92189	1	1.09	BDL	9.95	BDL	4.05	27.96	BDL	BDL	BDL	BDL	BDL	252.5		
10/26/92	106-92191	1	0.58	BDL	18.3	BDL	11.7	40.3	BDL	BDL	BDL	2.4	6820	5160		
10/26/92	106-92192	1	0.55	.158	3.82	<.05	1.47	5.31	.0178	.0685	.0944	<9	24.1			
10/26/92	106-92193	1	0.32	BDL	1.5	BDL	1.4	10.1	BDL	BDL	BDL	BDL	55			
10/26/92	106-92194	1	1.63	<1.14	4.58	<.5	42.2	7.2	.0352	<10	<1	<516	1.39			
10/26/92	106-92196	1	0.89	.85	88.4	<.8	13.6	25.2	<.05	<.8	3.4	1270	34328			
10/26/92	229-92007	1	157.89	BDL	9	3.4	17	22	BDL	BDL	BDL	BDL	1800			
10/26/92	317-92001	1	103.49	BDL	3.8	BDL	1.5	1.2	BDL	BDL	BDL	43355	63			
10/26/92	322-92003	1	54.30	<1.1	<22	<.55	3.8	25	<.10	.55	<1.1	BDL	150			
10/27/92	229-92007	1	124.55	BDL	9	3.4	17	22	BDL	BDL	BDL	BDL	1800			
10/27/92	240-92018	1	15.60	3.02	22.89	0.09	2.41	0.71	<.01	6.59	0.09	<12.00	730.0			
10/27/92	240-92020	1	68.44	2.22	19.79	0.08	2.94	2.08	<.01	3.78	0.20	<12.00	380.0			
10/28/92	111-92238	1	0.46	BDL	3.2	BDL	3.5	BDL	<.05	BDL	BDL	BDL	36.2			
10/28/92	111-92246	1	0.65	0.240	4.87	2.09	6.09	37.5	.00870	<.0020	2.75	394.60	354			
10/28/92	111-92248	1	0.78	.251	14.9	<.05	4.80	1.98	.0079	.124	.808	<9	1680			
10/29/92	111-92245	1	14.95	BDL	2.8	BDL	2.5	5.0	BDL	BDL	BDL	BDL	1050.0			
10/29/92	134-92012	1	86.28	BDL	5.7	BDL	3.1	5.6	BDL	BDL	BDL	BDL	185.0			
10/29/92	229-92007	1	45.91	BDL	9	3.4	17	22	BDL	BDL	BDL	BDL	1800			
10/30/92	111-92247	1	12.43	3.40	BDL	BDL	12.3	4.62	0.071	2.02	BDL	BDL	149			
10/30/92	229-92007	1	34.87	BDL	9	3.4	17	22	BDL	BDL	BDL	BDL	1800			
10/30/92	311-92005	1	4.81	1.58	15.99	0.08	4.25	1.18	<.01	1.69	0.05	<12.00	730.0			
11/02/92	235-92003	5	232.15	3.14	2.57	.034	11.62	<9.24	<.08	.7	<1.5	124	5017.50			
11/02/92	250-92007	1	33.44	<1.0	4.7	<.50	3.4	12	<.030	<1.0	<1.0	BDL	3200			
11/02/92	315-92001	1	32.91	BDL	5.9	BDL	3.6	2.0	BDL	BDL	BDL	BDL	264.0			
11/03/92	111-92241	1	1.31	BDL	1.8	BDL	2.0	BDL	BDL	BDL	BDL	BDL	18.019			
11/03/92	111-92242	1	0.60	.0816	2.07	0.0511	3.33	2.35	.00619	0.0371	<.0500	<9.00	20.7			



HANDEX OF FLORIDA, INC., 1001 Broken Sound Parkway N. W., Suite C, Boca Raton, Florida 33487
(407) 995-9551 Fax: (407) 995-9830

February 12, 1993

Mr. Vivek Kamath, P.E.
Florida Dept. Environmental Regulation
Southeast District
1900 S. Congress Ave, Suite A
West Palm Beach, FL 33406

Re: Results of sampling for cadmium, Rinker Materials Corp., 1200
NW 137th Avenue, Miami, Florida.

Dear Mr. Kamath:

This letter addresses the request of the FDER (in a letter of January 28, 1993) for Rinker Portland Materials Corp. to "delineate the extent of the cadmium concentrations" (prepare a contamination assessment), regarding the occurrence of cadmium in a groundwater sample at the referenced location. As consultants for Rinker, we have sampled the well previously showing cadmium and offer the results for your consideration.

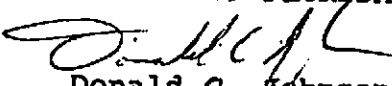
As background, the monitor well (MW-7) that showed 0.012 ppm, cadmium (from a sampling event of October 22, 1992), had not previously shown any detectable concentrations of cadmium during seven quarterly sampling events. The detection limit for those analyses was 0.005 ppm.

On February 3, 1993, Handex sampled MW-7 and split the sample; one part was filtered in the field as the sample contained some noticeable turbidity, and the second part was not filtered. Both samples were sent to VOC Analytical Laboratories, Inc., for analysis by EPA Method 213.2. The results of both analyses were the same - no concentration of cadmium greater than 0.005 ppm (the detection limit) was detected. The results of the analyses and chain of custody documentation are shown in Attachment A.

With the results as cited, we consider the FDER's request for assessment to be satisfied. Also, we request that you provide written confirmation to Mr. James Jenkins of Rinker Materials Corp., that an assessment is no longer needed.

As per the Groundwater Monitoring Plan, we will continue to sample monitor wells for cadmium and other chemical parameters of concern. Please call should you have any question regarding the above.

Sincerely,
HANDEX OF FLORIDA, INC.


Donald C. Johnson, P.G.
Site Manager

cc: Mr. Michael Vardeman, Rinker

K:\HOME\WP\SHARE\LETTERS\MM088.CEM

A SUBSURFACE RECOVERY COMPANY

ATTACHMENT A

CLIENT # 18

ADDRESS: RINKER MATERIALS

PO BOX 650679

MIAMI, FL 33165

ATTN: MIKE VARDEMAN

SAMPLE DESCRIPTION: RINKER MATERIALS

CEM 105132-01

RINKER CEMENT MILL, MIA

GROUNDWATER ANALYSIS

N

PAGE: 1

DATE: 02-10-1993

LOG #: 4133-4

LABEL: CEM-7C3

DATE SAMPLED: 02/03/93 N

DATE RECEIVED: 02/03/93

COLLECTED BY: CLIENT

Parameter	Result	Units	Method	Detection Limit	Extr. Date	Anal Date	Analyst
BTEX ANALYSIS							
Benzene	BDL	ug/l	5030/8021		02/04/93	02/04/93	GP
Toluene	BDL	ug/l	5030/8021	1.0	02/04/93	02/04/93	GP
Ethyl benzene	BDL	ug/l	5030/8021	1.0	02/04/93	02/04/93	GP
Total Xylenes	BDL	ug/l	5030/8021	1.0	02/04/93	02/04/93	GP
MTBE	BDL	ug/l	5030/8021	1.0	02/04/93	02/04/93	GP
Dilution Factor	1	ug/l	5030/8021	1.0	02/04/93	02/04/93	GP
PAH Compounds in water							
Naphthalene	BDL	ug/l	3510/8270		02/04/93	02/04/93	MF
Acenaphthylene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Acenaphthene	BDL	ug/l	3510/8270	2.5	02/04/93	02/04/93	MF
Fluorene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Phenanthrene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Anthracene	BDL	ug/l	3510/8270	3.5	02/04/93	02/04/93	MF
Fluoranthene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Pyrene	BDL	ug/l	3510/8270	2.5	02/04/93	02/04/93	MF
Benzo (A) Anthracene	BDL	ug/l	3510/8270	2.0	02/04/93	02/04/93	MF
Chrysene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Benzo (B) Fluoranthene	BDL	ug/l	3510/8270	2.5	02/04/93	02/04/93	MF
Benzo (K) Fluoranthene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Benzo (A) Pyrene	BDL	ug/l	3510/8270	2.5	02/04/93	02/04/93	MF
Indeno-(1,2,3,-CD) Pyrene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Dibenzo (A,H) Anthracene	BDL	ug/l	3510/8270	8.0	02/04/93	02/04/93	MF
Dibenzo (G,H,I) Perylene	BDL	ug/l	3510/8270	7.0	02/04/93	02/04/93	MF
1-Methyl Naphthalene	BDL	ug/l	3510/8270	4.0	02/04/93	02/04/93	MF
2-Methyl Naphthalene	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Arsenic	BDL	ug/l	3510/8270	3.0	02/04/93	02/04/93	MF
Barium	BDL	mg/l	206.3	0.010	02/04/93	02/09/93	JK
Cadmium	BDL	mg/l	208.2	0.1	02/04/93	02/05/93	JK
Chromium	0.006	mg/l	213.2	0.005	02/04/93	02/05/93	JK
Mercury	BDL	mg/l	218.2	0.005	02/04/93	02/05/93	JK
Lead	BDL	mg/l	245.1	0.001	02/04/93	02/08/93	JK
Selenium	BDL	mg/l	239.2	0.005	02/04/93	02/04/93	JK
Silver	BDL	mg/l	270.3	0.01	02/04/93	02/05/93	JK
Dissolved Silver	BDL	mg/l	272.2	0.005	02/04/93	02/05/93	JK
			272.2	0.005	02/04/93	02/05/93	JK

CLIENT # 18

ADDRESS: RINKER MATERIALS

PO BOX 650679

MIAMI, FL 33165

ATTN: MIKE VARDEMAN

SAMPLE DESCRIPTION: RINKER MATERIALS

CEM 105132-01

RINKER CEMENT MILL, MTA

GROUNDWATER ANALYSIS

n

PAGE: 2

DATE: 02-10-1993

LOG #: 4133-4

LABEL: CEM-7C3

DATE SAMPLED: 02/03/93 n

DATE RECEIVED: 02/03/93

COLLECTED BY: CLIENT

Parameter	Result	Units	Method	Detection Limit	Extr. Date	Anal Date	Analyst
Dissolved Arsenic	BDL	mg/l	206.3	0.010	02/04/93	02/09/93	JK
Dissolved Barium	BDL	mg/l	208.2	0.1	02/04/93	02/05/93	JK
Dissolved Cadmium	BDL	mg/l	213.2	0.005	02/04/93	02/05/93	JK
Dissolved Chromium	BDL	mg/l	218.2	0.005	02/04/93	02/05/93	JK
Dissolved Mercury	BDL	mg/l	245.1	0.001	02/04/93	02/08/93	JK
Dissolved Lead	BDL	mg/l	239.2	0.005	02/04/93	02/04/93	JK
Dissolved Selenium	BDL	mg/l	270.3	0.01	02/04/93	02/05/93	JK

* BDL = Below Detection Limits

All analyses were performed using EPA, ASTM, USGS, or Standard Methods

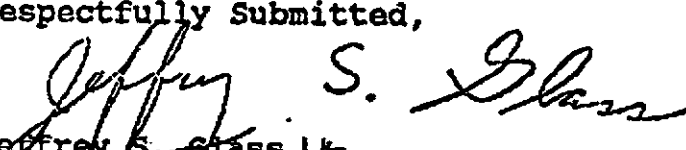
QAP # 90-0376G

HRS # E86240, 86356

SUB HRS# 86122, 86109, E86048

ADEM ID# 40720

Respectfully Submitted,

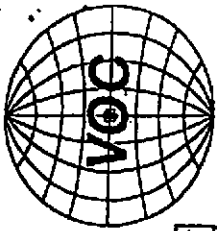

Jeffrey S. Glass
Laboratory Director

4133-4

VOC ANALYTICAL LABORATORIES, INC.
 877 N.W. 61 Street, Suite 202
 Ft. Lauderdale, FL 33309
 (305) 938-8823

CHAIN OF CUSTODY RECORD

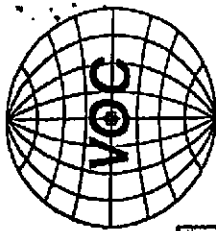
log # 4133



Project Name or Number		Project Location		Sample Description (CHECK ONE)				Other (Specify)		Comments
Item Number	Sample Label	Date	Time	Ground Water	Surface Water	Soil	Other (Specify)			
CEM 105132-01		RINKER CEMENT MILL MIAMI								
HANDEX OF FLA										
1	CEM- RBC3	2-3-93	1100	X				4	FILTERED METALS	
2	CEM- DC3		1230	X				4	TOTAL METALS	
3	CEM- GC3		1015	X				5	TOTAL METALS	
4	CEM- TC3		1130	X				5	TOTAL METALS	
5	CEM- EC3		1200	X				4	TOTAL METALS	
6	CEM- QC3		1145	X				4	TOTAL METALS	
7	CEM- EC3		1215	X				4	TOTAL METALS	
8	CEM- SW4C3		1315		X			4	TOTAL METALS	
9	CEM- Z4C3		1345	X				4	TOTAL METALS	
10	CEM- Z5C3		1415	X				4	TOTAL METALS	
11	CEM- Z6C3		1440	X				4	TOTAL METALS	
Will a Common Carrier be used? Yes ☒ No ☐										
Person Responsible for Sample										
GREG Soudy										
Remarks										

Preservative Type	602 BTEX+MTBE	610 METHLNAPS	603 BTEX+MTBE	604 BTEX+MTBE	605 BTEX+MTBE	606 BTEX+MTBE	607 BTEX+MTBE	608 BTEX+MTBE	609 BTEX+MTBE	610 BTEX+MTBE	611 BTEX+MTBE	612 BTEX+MTBE	613 BTEX+MTBE	614 BTEX+MTBE	615 BTEX+MTBE	616 BTEX+MTBE	617 BTEX+MTBE	618 BTEX+MTBE	619 BTEX+MTBE	620 BTEX+MTBE
As by 2.00.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.08.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.13.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.18.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.19.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.20.3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.21.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
As by 2.22.2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Transfer Number	Item Number	Signature	Date
1	1-11	Greg Soudy	2/19/93
2			
3			
4			



ANALYTICAL

[illegible]