

RINKER MATERIALS
SITE INSPECTION

12/29/99



DATE:	12/29/99	TIME:	1000
WEATHER:	Clear		
LOCATION:	Rinker Malemate		
PHOTO TAKEN BY. - Wfm			

Soil Storage Bldg.





New Limits on Metals for TCLP Analysis

		<u>Current limit</u>	<u>New limit</u>
Arsenic	As	10	10
Barium	Ba	4940	2000
Cadmium	Cd	37	20
Chromium	Cr	50	50
Lead	Pb	108	100
Mercury	Hg	23	4.6
Selenium	Se	389	20
Silver	Ag	353	100



Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

JAN 25 2000

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

Dear Mr. Jenkins,

The attached Soil Thermal Treatment Facility Inspection Report documents a routine inspection of your facility at 1200 NW 137th Avenue, Miami, FL, by the Department on December 29, 1999. During this inspection, as noted on the attached inspection report, the previous accumulation of oil/sludge inside the secondary containment of the soil storage building which was trapped between the stem wall and the outer wall in the Northeast corner of the soil storage building, as well as the oil accumulation in the vicinity of the drums stored in the Northwest corner of the soil storage building has been removed. No significant problems were noted during this inspection.

Additionally, a meeting was conducted in the Southeast District's office on January 11, 2000, to discuss the general provisions of the new soil thermal treatment facilities rule, 62-713, F.A.C. It was our understanding that Rinker will comply with the new rule by submitting a letter confirming your intent to meet the new treated soil requirements by February 1, 2000, and simultaneously submitting an alternative procedure to address exceptions to certain treated soil criteria based on the utilization of the treated soil in the production of cement and subsequent encapsulation.

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

Sincerely,

Paul Alan Wierzbicki, P.G.
Waste Cleanup Supervisor

Atch: STTF Inspection dated 12/29/99

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



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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 12/29/99 TIME 10:00 am

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 INSPECTORS:**

Lee Martin, FDEP

Don Emery, Rinker Materials

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

10. TYPE OWNERSHIP: FEDERAL STATE COUNTY MUNICIPAL PRIVATE

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

Rev 8/18/94

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, FAC. This facility operates a rotary kiln and utilizes the petroleum contaminated soil and coal tar contaminated soil in the manufacture of cement.

BACKGROUND INFORMATION:

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

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

Rinker has operated a materials substitution program since 1991. This program researches and evaluates different alternative materials for use as raw materials in the production of cement or for use as an alternative fuel source in the kilns. Two alternative materials currently in use include the substitution of petroleum contaminated soils for clean silica sand and the substitution of "on-spec" waste oil for fuel oil in kiln burners. Other alternative material substitutions under discussion and/or evaluation for possible future use include: (1) substitution of oily waste water for part of the slurry makeup water, (2) burning tires for fuel, (3) replacing FP&L slag with other power plant ashes such as ash from MSW incinerators, (4) using spent petroleum catalyst as an aluminum source, (5) blending oily sludges with contaminated soils, and (6) 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 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 first accepted coal tar contaminated soils from mid June-mid August 1997 and revised the treated soil reporting form to reflect the coal tar parameters. According to Mr. Emery, during this inspection period Rinker has not treated any coal tar contaminated soils.

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

The afterburner system for the petroleum contaminated soils is in operation, the soils process through a preliminary kiln (stone dryer) with afterburner, then go through the 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, are weighed, and taken to the Material Screening Building (MSB) for processing. Rinker has changed their policy concerning drum handling due to the increase in drill cuttings received in drums and the subsequent bottle neck caused in the off loading area. The drums are placed in the Northwest corner of the MSB and emptied as time permits and during this inspection all drums observed were located inside the building and the previously identified layer of thick oily waste material accumulating on the floor around the stored drums has been removed.

Once emptied the drums are then rinsed at the drum washing area and crushed for salvage. 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 February 9, 1992 and consists of a 100' by 300' monolith concrete slab sealed to solid concrete walls on three sides with a concrete curb across the front. The MSB has an open front to accommodate trucks and equipment, enclosed sides, and a roof. The floor slopes to the southeast corner where a sump is located to collect any contaminated water from wind blown rain seeping through the contaminated soils. The leachate collection tank has been relocated outside the Southeast corner of the MSB. The tank is within a secondary containment structure and piping outside the facility is double-walled. An additional interior concrete curb sloping away from the Northeast front wall toward the interior of the MSB had been installed. An additional stem wall has been constructed along the Northeast front wall and rain gutters have been redirected after investigation following the December 1996 inspection. During this inspection, the previously identified thick oily sludge type material in the area between the stem wall and the outer wall of the building has been removed. This will continue to be checked in the future. The four groundwater wells off the corners of the MSB have flush mounted manhole lids with locking watertight caps.

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

RECORDKEEPING:

Rinker has received a Department alternative procedure approval (File No. AP-STTF001) for testing of contaminated soils. Rinker relies solely on the test results supplied by other labs; however, Rinker requires acknowledgment of a Department approved Quality Assurance plan from the labs supplying the data. Rinker performs spot checks of some samples. Rinker also performs groundwater analyses through their in-house laboratory, under a Department approved Quality Assurance Plan, for their Groundwater Monitoring Plan. A review of records for untreated soil for October 1999 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 to track the source, soil PCB content, quantity, PCB concentration, pounds PCB treated, and cumulative year to date PCB treated. No PCB contaminated soils were received during October 1999. Rinker began treating coal tar contaminated soils in mid-June 1997 and developed a form to track the required analytical data for the treated soils, no coal tar contaminated soils were processed during this inspection period. A review of treated soil (clinker) forms for TCLP analyses indicates the results from one sample for Arsenic, six samples for Barium, eight samples for Cadmium, two samples for Chromium, six samples for Lead, and two samples for Silver exceed the respective groundwater standard; however, all this material is stabilized in concrete rather than disposed of as clean soil. The remainder of the clean soil criteria in 62-775 was not exceeded.

SUMMARY:

The MSB 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 other signs of discharge were noted and all facility personnel were very cooperative.

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

Name of Facility RINKER MATERIALS
Location 1200 NW. 137th AVE, MIAMI, FL
General Permit No. SO 13-290034 Date of Inspection 12/29/99
Contact Person DON EMERY
Person Completing Report LEE MARTIN

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

Yes No SITE SURVEY

- ☒ 1. Does information provided on general permit notice of intent form coincide with actual facility?
- ☒ 2. Is soil sampling procedure correct?
- ☒ 3. Are monitoring wells properly installed (proper number and location)?
- ☒ 4. Are monitor wells being properly sampled and analysed for required parameters?
- ☒ 5. Is untreated soil stockpiled separately from treated soil and properly identified?
- ☒ 6. Is untreated soil adequately covered by roofing?
- ☒ 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 10/1/99 end date 10/30/99
- ☒ 11. Are treated soil reporting forms being properly completed? starting date 9/1/99 end date 11/13/99

12. Indicate frequency clean soil criteria is being met?
- 100 % TRPH - 10 mg/kg, or
 - % TRPH - 50 mg/kg, PAH - 6 mg/kg, and VOH - 50 ug/kg
13. Indicate ranges and approximate median values of untreated soil analyses for the following parameters.
- TRPH BDL mg/kg to 420000 mg/kg, median 573 mg/kg
 - VOA BDL mg/kg to 20772 mg/kg, median 1 mg/kg
 - Arsenic BDL mg/kg to 134 mg/kg
 - Barium BDL mg/kg to 226 mg/kg
 - Cadmium BDL mg/kg to 5.5 mg/kg
 - Chromium BDL mg/kg to 40 mg/kg
 - Lead BDL mg/kg to 190 mg/kg
 - Mercury BDL mg/kg to .26 mg/kg
 - Selenium BDL mg/kg to 7.98 mg/kg
 - Silver BDL mg/kg to 5 mg/kg
14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
- TRPH BDL mg/kg to BDL mg/kg, median BDL mg/kg
 - VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
 - Arsenic .73 mg/kg to 4.8 mg/kg
 - Barium 30 mg/kg to 205 mg/kg
 - Cadmium BDL mg/kg to 3.5 mg/kg
 - Chromium 0.8 mg/kg to 46 mg/kg
 - Lead 2.8 mg/kg to 30 mg/kg
 - Mercury BDL mg/kg to 0.9 mg/kg
 - Selenium 0.4 mg/kg to 27 mg/kg
 - Silver BDL mg/kg to 8.5 mg/kg
 - mg/kg to mg/kg
 - mg/kg to mg/kg

Comments: OIL/SLUDGE SPILLS IDENTIFIED DURING THE
SEPTEMBER 1999 INSPECTION HAVE BEEN REMOVED/CLEANED
SPOT CHECK OF OTHER PETROLEUM CONTAMINATED MEDIA
ACCEPTED DURING OCTOBER 1999 UNDER ALTERNATE PROCEDURE
IDENTIFIED PRIMARILY OILY RAGS, ABSORBANT BOOMS & OIL-DRI.

William L. Martin
Signature

1/14/00
Date

						Month _____ Year 99																						
						7																						
						8																						
						9																						
						10																						
						11																						
1	Soil Batch ID#	2	Sample Number	3	Length of Run Hours	4	Amount Volume or Weight	Analytical Results																				
								Total Metals								Totals												
								As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	TOH
								11	1310	215	44	7.3	BDL	10	212	BDL	107	104	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
								Be	CN	Phenols	Dibenzofuran					Be	Benzene											
								6								7	8	9	10	11								
1	Soil Batch ID#	2	Sample Number	3	Length of Run Hours	4	Amount Volume or Weight	Analytical Results																				
								Total Metals								Totals												
								As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	TOH
								19	203	315	410	30	BDL	27	8.5	BDL	30	104	12	12	14	BDL	BDL	2.0	BDL	BDL	BDL	BDL
								Be	CN	Phenols	Dibenzofuran					Be	Benzene											
								6								7	8	9	10	11								
1	Soil Batch ID#	2	Sample Number	3	Length of Run Hours	4	Amount Volume or Weight	Analytical Results																				
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								As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	TOH
								19	203	315	410	30	BDL	27	8.5	BDL	30	104	12	12	14	BDL	BDL	2.0	BDL	BDL	BDL	BDL
								Be	CN	Phenols	Dibenzofuran					Be	Benzene											
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								19	203	315	410	30	BDL	27	8.5	BDL	30	104	12	12	14	BDL	BDL	2.0	BDL	BDL	BDL	BDL
								Be	CN	Phenols	Dibenzofuran					Be	Benzene											
								6								7	8	9	10	11								
1	Soil Batch ID#	2	Sample Number	3	Length of Run Hours	4	Amount Volume or Weight	Analytical Results																				
								Total Metals								Totals												
								As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	TOH
								19	203	315	410	30	BDL	27	8.5	BDL	30	104	12	12	14	BDL	BDL	2.0	BDL	BDL	BDL	BDL
								Be	CN	Phenols	Dibenzofuran					Be	Benzene											
								6								7	8	9	10	11								

1	2	3	4	5	6	7	8	9	10	11
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight g/tn						
5-11		42	168							
Analytical Results										
Total Metals					Total Metals					
As	Ba	Cd	Cr	Hg	Pb	Se	Ag	As	Ba	Cd
0.23	31	BDL	2	0.9	5.12	2.1	BDL	BDL	9.0	BDL
Be	CN	Phenols	Dibenzofuran					BDL	BDL	BDL
								BDL	BDL	BDL
TOH										
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight g/tn						
9-19		42	168							
Analytical Results										
Total Metals					Total Metals					
As	Ba	Cd	Cr	Hg	Pb	Se	Ag	As	Ba	Cd
1.5	30	BDL	0.8	BDL	2.8	2.5	BDL	BDL	5.1	BDL
Be	CN	Phenols	Dibenzofuran					BDL	BDL	BDL
								BDL	BDL	BDL
TOH										
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight g/tn						
10-17		42	168							
Analytical Results										
Total Metals					Total Metals					
As	Ba	Cd	Cr	Hg	Pb	Se	Ag	As	Ba	Cd
4.5	201	3.4	5.8	BDL	4.0	10	4.7	BDL	7.4	1.03
Be	CN	Phenols	Dibenzofuran					BDL	BDL	BDL
								BDL	BDL	BDL
TOH										
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight g/tn						
10-17		42	168							
Analytical Results										
Total Metals					Total Metals					
As	Ba	Cd	Cr	Hg	Pb	Se	Ag	As	Ba	Cd
4.8	201	3.4	5.8	BDL	4.0	10	4.7	BDL	7.4	1.03
Be	CN	Phenols	Dibenzofuran					BDL	BDL	BDL
								BDL	BDL	BDL
TOH										
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight g/tn						
10-17		42	168							
Analytical Results										
Total Metals					Total Metals					
As	Ba	Cd	Cr	Hg	Pb	Se	Ag	As	Ba	Cd
1.1	124	2.5	4.4	BDL	7.3	10	3.13	BDL	15.7	1.04
Be	CN	Phenols	Dibenzofuran					BDL	BDL	BDL
								BDL	BDL	BDL
TOH										

Month October Year: 1999

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172184
Soil Treatment Permit No.: SW-01117-97
Stationary XXX or Mobile Facility: _____

DER Form #	17-775.800(2)
Form Title	Soil Thermal Treatment Facility
Effective Date:	Untreated Soil Reporting Form
DER Application No.:	

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Month October Year: 1999

Soil Thermal Treatment Facility Untreated Soil Reporting Form

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

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

1		2		3	4	5					6	7	8	9					
				Amount		Analytical Results													
				Sample	Vol. or	Metals										Totals		Indicate Other Analyses	
Date	Reporting ID#	Number	Wt. c/y/m	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only				
10/19/99	3014974 - 199900001	1.	39.13	BDL	36.	BDL	9.3	10.	BDL	BDL	BDL	11.6	57000.	BDL					
10/19/99	3014974 - 199900002	1.	13.57	BDL	BDL	0.35	1.9	1.1	BDL	5.7	BDL	BDL	2400.	BDL					
10/20/99	3026859 - 199900001	1.	15.61	BDL	BDL	BDL	6.2	6.1	BDL	BDL	BDL	2.66	1100.	BDL					
10/20/99	3042148 - 199900006	3.	239.20	BDL	675.	5.	40.	35.	BDL	BDL	5.	BDL	500.	BDL					
10/22/99	3003039 - 199900009	3.	437.97	BDL	27.07	BDL	3.9	7.6	BDL	BDL	BDL	BDL	9.83	BDL					
10/27/99	3003055 - 199900006	3.	598.89	0.3	BDL	5.50	7.90	3.63	0.10	BDL	BDL	35.18	67.	BDL					
10/27/99	3013194 - 199900004	1.	60.59	BDL	28.	20	16.4	4.8	BDL	BDL	BDL	BDL	3000.	BDL					
10/27/99	3026832 - 199900007	9.	63.31	0.68	3.39	.07	4.21	15.66	BDL	BDL	BDL	19.9	72.68	BDL					
10/28/99	3000156 - 199900001	3.	316.92	BDL	4.67	BDL	5.63	14.33	BDL	BDL	BDL	1030.	360.	BDL					
10/29/99	3013174 - 199900006	5.	356.22	.168	18.3	.232	5.776	58.88	BDL	BDL	BDL	BDL	31.68	BDL					
10/29/99	3026831 - 199900004	1.	142.09	BDL	BDL	1.45	1.4	1.6	BDL	BDL	BDL	8500.	4920.	BDL					
10/30/99	3003004 - 199900001	1.	2	BDL	1.2	BDL	6.7	BDL	BDL	BDL	BDL	BDL	50.	BDL					

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 Oct. Year 1999

1		2		3		4		5							6		7		8		
Day of Month		Soil Batch ID#		Sample Number		Amount Volume or Weight cy/tu		Analytical Results													
								Metals			Totals										
								AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Source			
2-Oct	3016993- untreated blending blending	199900001 analysis soil soil	134 BDL BDL	0.1	226	BDL	19.3	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	KATZ Blended 14 - 1					
5-Oct	3026912- untreated blending blending	199900005 analysis soil soil	2	59	1.4	128 BDL	4.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	MONAD APTS Blended 2 - 1					
8-Oct	1099COD- untreated blending blending	199900001 analysis soil soil	8.6	36.8	0.66	15.8	115 BDL	22.5	0.128	1	BDL	BDL	BDL	BDL	BDL	US 27 WEST OF TPK Blended 2 - 1					
8-Oct	3026883- untreated blending blending	199900010 analysis soil soil	9.66	66.1	1.24	30.5	115 BDL	6.1	BDL	7.98	BDL	BDL	BDL	BDL	BDL	COASTAL PT MANA Blended 2 - 1					

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 Oct. Year 1999

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	
14-Oct														
3002927	199900001													
untreated	analysis													
blending	soil			BDL	7.57	0.377	4.32	190	BDL	BDL	BDL			DION OIL
blending	soil							BDL						Blended 2 - 1
								2						
untreated	analysis													
blending	soil													
blending	soil													
untreated	analysis													
blending	soil													
blending	soil													
untreated	analysis													
blending	soil													
blending	soil													

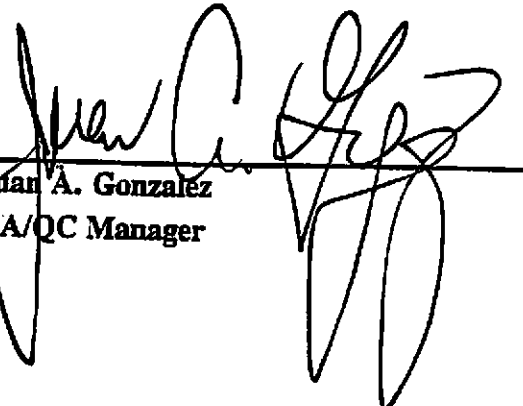
RINKER MATERIALS SUBSTITUTION

Materials Analysis Report

REPORT DATE 11/15/99
SAMPLE DATE 10/2/99
SAMPLE SOURCE KATZ SPILL
REFERENCE # 3016993-99001
R.E.S. NUMBER 13402/13403
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
ARSENIC	BDL	BDL	mg/kg	7061	0.5	11/4/99	AP

BLEND = 1 Contaminated With 4 CLEAN
BDL = Below detection limit


Juan A. Gonzalez
QA/QC Manager

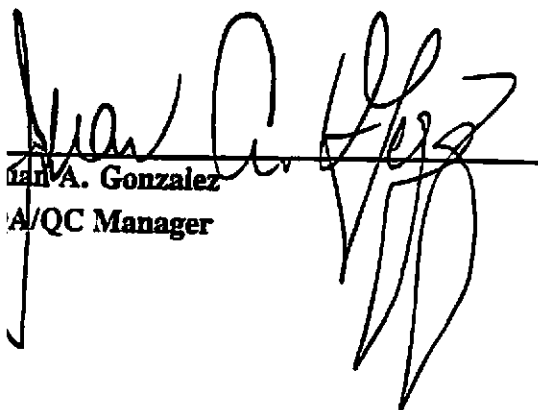
RINKER MATERIALS SUBSTITUTION

Materials Analysis Report

REPORT DATE 11/15/99
SAMPLE DATE 10/5/99
SAMPLE SOURCE MONAD APTS.
REFERENCE # 3026912-99005
R.E.S. NUMBER 13406/13407
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
LEAD	10.1	4.5	mg/kg	7420	10	11/4/99	AP

BLEND = 1 Contaminated With 2 CLEAN
3DL = Below detection limit


Juan A. Gonzalez
QA/QC Manager

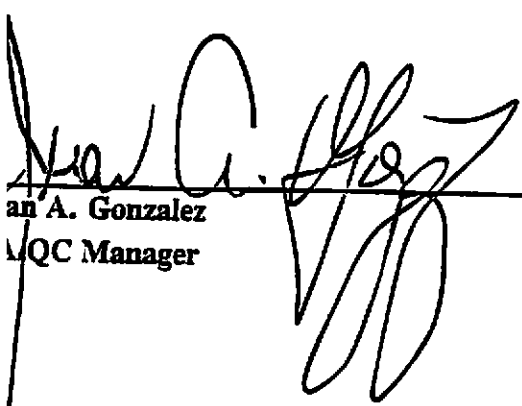
RINKER MATERIALS SUBSTITUTION

Materials Analysis Report

REPORT DATE 10/15/99
SAMPLE DATE 8/18/99
SAMPLE SOURCE DEP US 27
REFERENCE # 9991360
R.E.S. NUMBER 13295/13296
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
LEAD	29.0	22.5	mg/kg	7420	10	10/7/99	AP

LEAD = 1 Contaminated With 1 CLEAN
DL = Below detection limit


Juan A. Gonzalez
QC Manager

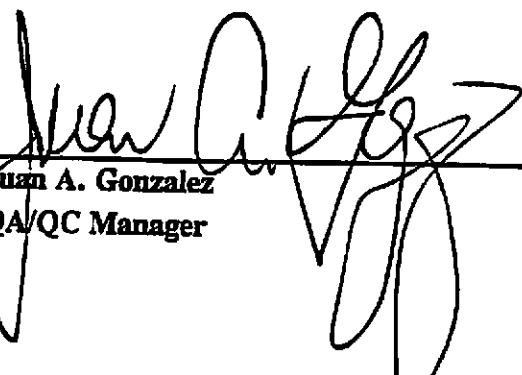
RINKER MATERIALS SUBSTITUTION

Materials Analysis Report

REPORT DATE 11/15/99
SAMPLE DATE 10/8/99
SAMPLE SOURCE COASTAL --- PT. MANATEE
REFERENCE # 3026883
R.E.S. NUMBER 13404/13405
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
LEAD	2.5	6.1	mg/kg	7420	1	11/4/99	AP

BLEND = 1 Contaminated With 2 CLEAN
BDL = Below detection limit


Juan A. Gonzalez
QA/QC Manager

RINKER MATERIALS SUBSTITUTION

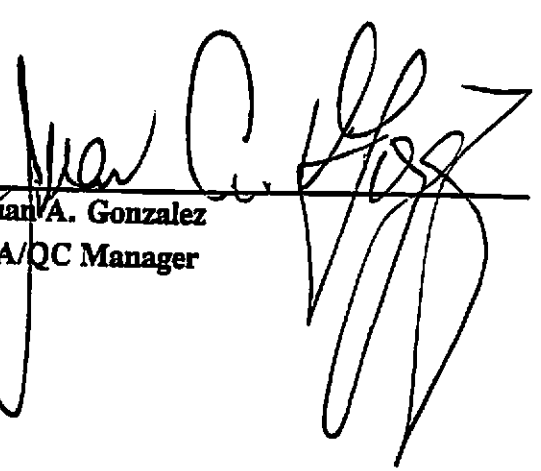
Materials Analysis Report

REPORT DATE 11/15/99
SAMPLE DATE 10/14/99
SAMPLE SOURCE DION OIL
REFERENCE # 3002927-99001
R.E.S. NUMBER 13430/13431
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST
LEAD	2.2	2.0	mg/kg	7420	10	11/4/99	AP

BLEND = 1 Contaminated With 2 CLEAN

BDL = Below detection limit


Juan A. Gonzalez
QA/QC Manager



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	10/7/99	DATE SAMPLED	10/2/99
SAMPLE SOURCE	KATZ PLUMBING	DATE RECEIVED	10/4/99
SAMPLE LOCATION	NORTH MIAMI	REFERENCE #	KATZ PLUMBING
COLLECTED BY	A.J. EITE	R.E.S. NUMBER	13285
SAMPLE TYPE	SOIL	PAGE	Page 1 of 2

PARAMETER	RESULT	UNITS	METHOD	D. LIMITS	ANALYSIS DATE	ANAL. INITIAL
Arsenic	139	mg/kg	7060	0.5	10/4/99	AP
Barium	226	mg/kg	7081	25	10/5/99	AP
Cadmium	0.1	mg/kg	7131	0.05	10/5/99	AP
Chromium	BDL	mg/kg	7191	1	10/4/99	AP
Mercury	BDL	mg/kg	7470A	0.08	10/4/99	FJG
Lead	19.3	mg/kg	7421	0.1	10/5/99	AP
Selenium	2.2	mg/kg	7740	0.4	10/4/99	AP
Silver	BDL	mg/kg	7761	0.1	10/5/99	AP
Chloromethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
Bromomethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
Vinyl Chloride	BDL	ug/kg	5030/8021	150	10/4/99	AP
Dichlorodifluoromethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
Chloroethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
Methylene Chloride	BDL	ug/kg	5030/8021	150	10/4/99	AP
Trichlorofluoromethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,1-Dichloroethene	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,1-Dichloroethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
trans-1,2-Dichloroethene	BDL	ug/kg	5030/8021	150	10/4/99	AP
Chloroform	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,2-Dichloroethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,1,1-Trichloroethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
Carbon Tetrachloride	BDL	ug/kg	5030/8021	150	10/4/99	AP
Bromodichloromethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,2-Dichloropropane	BDL	ug/kg	5030/8021	150	10/4/99	AP
cis-1,3-Dichloropropene	BDL	ug/kg	5030/8021	150	10/4/99	AP
Trichloroethene	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,1,2-Trichloroethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,1,2,2-Tetrachloroethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
trans-1,3-Dichloropropene	BDL	ug/kg	5030/8021	150	10/4/99	AP
Dibromochloromethane	BDL	ug/kg	5030/8021	150	10/4/99	AP
Bromoform	BDL	ug/kg	5030/8021	150	10/4/99	AP
Tetrachloroethene	BDL	ug/kg	5030/8021	150	10/4/99	AP

REPORT DATE	10/7/99	DATE SAMPLED	10/2/99
SAMPLE SOURCE	KATZ PLUMBING	DATE RECEIVED	10/4/99
SAMPLE LOCATION	NORTH MIAMI	REFERENCE #	KATZ PLUMBING
COLLECTED BY	A.J. EITE	R.E.S. NUMBER	13285
SAMPLE TYPE	SOIL	PAGE	Page 2 of 2

PARAMETER	RESULT	UNITS	METHOD	D. LIMITS	ANALYSIS DATE	ANAL. INITIAL
MTBE	BDL	ug/kg	5030/8021	150	10/4/99	AP
Benzene	BDL	ug/kg	5030/8021	150	10/4/99	AP
Toluene	1,450	ug/kg	5030/8021	150	10/4/99	AP
Ethylbenzene	BDL	ug/kg	5030/8021	150	10/4/99	AP
p-Xylene	BDL	ug/kg	5030/8021	150	10/4/99	AP
Chlorobenzene	1,000	ug/kg	5030/8021	150	10/4/99	AP
m-Xylene	BDL	ug/kg	5030/8021	150	10/4/99	AP
o-Xylene	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,4-Dichlorobenzene	1,800	ug/kg	5030/8021	150	10/4/99	AP
1,3-Dichlorobenzene	BDL	ug/kg	5030/8021	150	10/4/99	AP
1,2-Dichlorobenzene	BDL	ug/kg	5030/8021	150	10/4/99	AP
TRH	3,760	mg/kg	9073	1	10/4/99	AP
Halogens	BDL	mg/kg	9020	100	10/4/99	AP
TCLP As	BDL	mg/L	1311	1	10/7/99	AP

BDL = Below Detection Limits

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

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

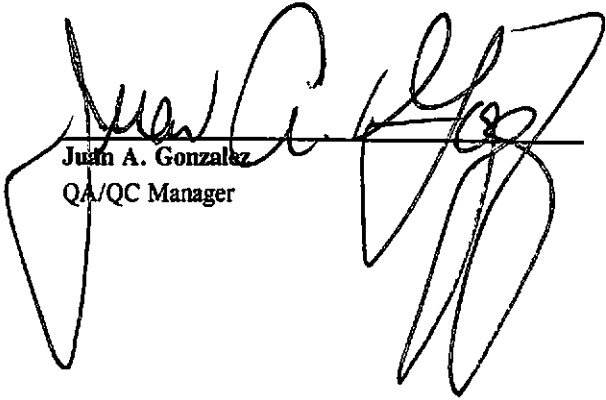
All analyses were performed within EPA holding times unless otherwise noted.

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

QAP # 950491

DOH# E86536

Respectfully submitted,


 Juan A. Gonzalez
 QA/QC Manager

Katz - Katz - Spill
27 Ave + 159 St

10/99.

BLEND AL 14-1

Material Soil Code 1011
Volume 1011 Remarks 1011
QA Cert. 1011 Loading: 1011
Disposal: 350 lb Transfer: 1011
Total Price: 1011
Lab # 350 lb

Ant. Vol. 10 T Sample Quant. 1
VOA 4250 AS 139 CH 0.1 Pb 19.3 Cu 2.2
TRPH 3760 BA 226 CR BDL Hg BDL Ag BDL
VOH BDL Other 1

3016993-199900001

SAP

INQUIRY _____

CONTRACT _____

SALES ORDER 2608480

PRJ # _____

VOA	TRPH	12/29/1999	VOA		TRPH	
1	33.9					
4250	3760		Mean	1284.614	Mean	124044.7
1	5941		Standard Error	649.4821	Standard Error	119892.9
1	8600		Median	1	Median	573
1	4200000		Mode	1	Mode	5
5100	16000		Standard Deviatlo	3842.388	Standard Deviatlo	709296.1
3000	4500		Sample Variance	14783944	Sample Variance	5.03E+11
1	864		Kurtosis	20.43027	Kurtosis	34.98485
1	16.7		Skewness	4.293135	Skewness	5.914227
412.7	27.2		Range	20771	Range	4199995
1	32.4		Minimum	1	Minimum	5
3.5	573		Maximum	20772	Maximum	4200000
1	5		Sum	44961.48	Sum	4341563
34	240		Count	35	Count	35
1	5		Confidence Level(1319.906	Confidence Level(243651.6
1143	94					
1	5					
1	8300					
1	11600					
20772	660					
1	65					
1	9200					
627	1530					
11.6	57000					
1	2400					
2.6	1100					
1	500					
1	9.8					
35.18	67					
1	3000					
19.9	72.6					
1030	360					
1	31.6					
8500	4920					
1	50					