Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

JUL 19 1999

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 June 3, 1999. During this inspection, as noted on the attached inspection report, a review of the previous quarterly groundwater monitoring results indicated groundwater violations identified in April 1999 were not confirmed after confirmation sampling on May 5, 1999. Additionally, a replacement monitor well has been installed on the Northwest corner of the soil storage building, please submit a copy of the well completion report to this office.

In anticipation of the upcoming changeover in the cement manufacturing process (wet process to dry process), several areas of the current permits may require modification in order to remain current. It appears the facility layout, handling and processing of materials, handling of drum wash area wastewater, and management of leachate from the soil storage building are some of the areas which may need to be addressed. To determine whether or not permitting changes are necessary and ensure timely processing, please contact Robert Johns/MDERM regarding permit no. SO13-300512 and this office regarding permit no. SO13-290034 as soon as possible. In addition, the original alternate procedure (AP-STTF001) needs to be reviewed for continued applicability. Thank you for your continued cooperation.

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 6/3/99

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

Department of Environmental Protection

Jeb Bush
Governor

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

David B. Struhs
Secretary

SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

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

2. **FACILITY NAME** Rinker Portland Cement Corp.

   DER/EPA ID FLD981758485 **COMET SITE ID** 69992

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

COUNTY Dade **PHONE** 305- 221-7645 **DATE** 6/3/99 **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. X 62-775, F.A.C.

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

8. **SURVEY PARTICIPANTS AND PRINCIPAL INSPECTORS:**
Lee Martin, 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

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, 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 ^{o} 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 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 only treated 10-15 drums of coal tar contaminated soils the last week of April 1999.

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 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, 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 (two of the drums containing petroleum contaminated material were labeled "used oil filters"; however, further investigation revealed they contained absorbent material and PPE and were mislabeled). 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. This will continue to be checked in the future. The four groundwater wells off the corners of the MSB have flush mounted manhole lids. The locking cap on the monitor well at the Southwest corner of the MSB has been replaced since the last inspection. Additionally, the monitor well off the Northwest corner of the MSB has been replaced; therefore, a monitor well completion report needs to be submitted to the Department.

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 has 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.

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 analytical data indicates elevated detection limits are being reported for some parameters, such as Benzene. Detection limits need to be revised to be comparable with applicable groundwater standards. The March 1999 Groundwater Monitoring Report (GMR) indicated groundwater violations of some parameters; however, follow up confirmation sampling on May 5, 1999, did not confirm any of the violations, all results reported below detection limit or less than the groundwater standard. A review of records for untreated soil for April 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 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, a small quantity of coal tar contaminated soils were processed the last week of April 1999. One sample of treated soils analyzed for this inspection period exceeded the VOA/TRPH criteria for clean soil in 62-775, FAC; however, this was attributed to laboratory contamination and the following sample did not exceed the VOA/TRPH criteria. A review of treated soil (clinker) forms for TCLP analyses indicates the results from five samples for Cadmium, five

samples for Lead, and eight samples for Chromium exceed the respective groundwater standard; however, all this material is stabilized in concrete rather than disposed of as clean soil.

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 6/3/99

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)? REPLACED NW WELL AT SSB
X		4.	Are monitor wells being properly sampled and analysed for required parameters?
✓		5.	Is untreatd soil stockpiled separately from treated soil and properly identified?
✓		6.	Is untreated soil adequately covered by roofing?
✓		7.	Do floors for storage appear to be properly constructed and in good condition?
✓		8.	Are floors properly bermed to provide runoff control?
✓		9.	Is a leachate collection system provided?

Yes	No	REPORTING FORMS	
✓		10.	Are untreated soil reporting forms being properly completed? starting date 4/1/99 end date 4/29/99
✓		11.	Are treated soil reporting forms being properly completed? starting date 12/28/98 end date 5/2/99

12. Indicate frequency clean soil criteria is being met?
    a. 95 % TRPH - 10 mg/kg, or
    b. 5 % TRPH - 50 mg/kg, PAH - 6 mg/kg, and VOH - 50 ug/kg

13. Indicate ranges and approximate median values of untreated soil analyses for the following parameters.
    a. TRPH 1 mg/kg to 430000 mg/kg, median 609 mg/kg
    b. VOA .1 mg/kg to 45600* mg/kg, median .1 mg/kg
    c. Arsenic BDL mg/kg to 42.5 mg/kg
    d. Barium BDL mg/kg to 1760 mg/kg
    e. Cadmium BDL mg/kg to 27.9 mg/kg
    f. Chromium 1 mg/kg to 172 mg/kg
    g. Lead BDL mg/kg to 280 mg/kg
    h. Mercury BDL mg/kg to .75 mg/kg
    i. Selenium BDL mg/kg to 36 mg/kg
    j. Silver BDL mg/kg to 6.5 mg/kg

14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
    a. TRPH BDL mg/kg to 47 mg/kg, median BDL mg/kg
    b. VOA BDL mg/kg to 2.9 mg/kg, median BDL mg/kg
    c. Arsenic 2.5 mg/kg to 9.8 mg/kg
    d. Barium 178 mg/kg to 1770 mg/kg
    e. Cadmium BDL mg/kg to 4.1 mg/kg
    f. Chromium 48 mg/kg to 104 mg/kg
    g. Lead 3.7 mg/kg to 31.9 mg/kg
    h. Mercury BDL mg/kg to BDL mg/kg
    i. Selenium BDL mg/kg to 12.4 mg/kg
    j. Silver BDL mg/kg to 6.9 mg/kg
    k. _____ _____ mg/kg to _____ mg/kg
    i. _____ _____ mg/kg to _____ mg/kg

Comments: One sample in Item #12 above appears to have been contaminated in lab confirmation sampling the next weekly sample was less than clean soil criteria. Clinker leachability results exceeded the groundwater criteria in several samples; however the material is not sold as clean soil but processed into concrete.

* Some groundwater samples collected April 2, 1999 identified PAH's in some wells; however, confirmation samples collected May 5, 1999 were BDL.

William L Martin — Signature

7/2/99 — Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DISTRICT ROUTING SLIP

To: PAUL WIERZBICKI DATE: 6/16/99

CC To:

	PENSACOLA	**NORTHWEST DISTRICT**	
	Panama City	Northwest District Branch Office	
	Tallahassee	Northwest District Branch Office	
	Sopchoppy	Northwest District Satellite Office	
	TAMPA	**SOUTHWEST DISTRICT**	
	Punta Gorda	Southwest District Branch Office	
	Bartow	Southwest District Satellite Office	
	ORLANDO	**CENTRAL DISTRICT**	
	Melbourne	Central District Satellite Office	
	JACKSONVILLE	**NORTHEAST DISTRICT**	
	Gainesville	Northeast District Branch Office	
	FORT MYERS	**SOUTH DISTRICT**	
	Marathon	South District Branch Office	
	WEST PALM BEACH	**SOUTHEAST DISTRICT**	
	Port St. Lucie	Southeast District Branch Office	

☐ Reply Optional Date Due _____ ☐ Reply Required Date Due: _____ ☐ Info Only

Comments:

850

From: ZOE KULAKOWSKI Tel.: 488-3935

08-18-93

Florida Department of
Environmental Protection

Memorandum

991468

To: Paul Wierzbicki, Southeast District Office

Through: Jim Crane, Bureau of Waste Cleanup JJC

From: Zoe Kulakowski, Bureau of Waste Cleanup ZPK

Date: June 16, 1999

Subject: Rinker Portland Cement Corporation, 1200 Northwest 137th Avenue, Miami, Dade County

I have reviewed the Chapter 62-775, F.A.C. Ground Water Monitoring Report dated May 24, 1999 for the referenced site. The April 2, 1999 analytical results presented in this report show unacceptable ground water concentrations of PAHs and/or lead at MW-7, MW-24, MW-25, and MW-26. These wells were resampled on May 5, 1999 and these results show acceptable concentrations. Was the source of the PAHs identified? As a pH of 10.75 was reported at MW-26, was the pH meter functioning properly? If this well has a "grout in the sand pack" problem, it may need to be abandoned and replaced.

/zpk

CSR Rinker

RINKER ENVIRONMENTAL SERVICES
1200 N.W. 137th AVENUE
MIAMI, FL 33182
PHONE # 305-225-1423 / 225-1427
800-226-7647
FAX # 305-220-9875

DATE: 7/2/99

TO: Lee Martin FROM: Don Engle

ATTN: _____

NUMBER OF PAGES INCLUDING COVER: 2

COMMENTS: I will find out about the grinding procedure and call you on 7/6/99

RINKER Environmental Services, INC.

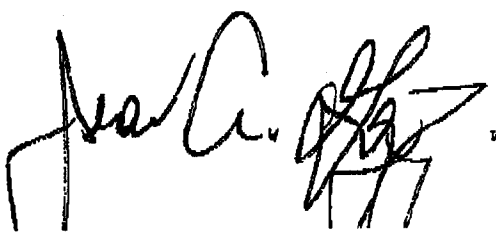
COMPQAP #950491
HRS #E86536

Materials Analysis Report

REPORT DATE	1/15/99
SAMPLE DATE	12/28-98-1/3/99
SAMPLE SOURCE	RINKER
REFERENCE	RINKER
R.E.S. NUMBER	11602
SAMPLE TYPE	CLINKER

PARAMETER	RESULT	UNITS	METHOD	D. LIMITS	EXTRACT. DATE	ANALYSIS DATE	ANAL. INITIAL
EPA 602 Compounds							
Benzene	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
Chlorobenzene	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
Toluene	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
Ethyl Benzene	2986 (*)	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
Total Xylenes	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
MTBE	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
1,2-Dichlorobenzene	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
1,3-Dichlorobenzene	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
1,4-Dichlorobenzene	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
Total BTEX	BDL	ug/kg	5030/8021	150	1/4/99	1/4/99	JSP
Dilution Factor							
TRPH	47	mg/kg	9073	1.0	1/5/99	1/5/99	JSP
Silver	BDL	mg/kg	3050/6010A	0.1		1/5/99	PEP
Arsenic	3.2	mg/kg	3050/6010A	0.5		1/11/99	PEP
Barium	256	mg/kg	3050/6010A	0.9		1/7/99	PEP
Cadmium	0.03	mg/kg	3050/6010A	0.02		1/6/99	PEP
Chromium	74.5	mg/kg	3050/6010A	0.8		1/5/99	PEP
Mercury	BDL	mg/kg	3050/6010A	0.08		1/5/99	PEP
Lead	10.4	mg/kg	3050/6010A	0.1		1/7/99	PEP
Selenium	10.7	mg/kg	3050/6010A	0.4		1/6/99	PEP
Acid Digestion			3050		1/5/99		PEP
TCLP Metal Extract			1311		1/6/99		
Silver	BDL	mg/kg	3050/6010A	0.04		1/11/99	PEP
Arsenic	BDL	mg/kg	3050/6010A	0.2		1/6/99	PEP
Barium	BDL	mg/kg	3050/6010A	2		1/7/99	PEP
Cadmium	BDL	mg/kg	3050/6010A	0.02		1/11/99	PEP
Chromium	BDL	mg/kg	3050/6010A	0.2		1/11/99	PEP
Mercury	BDL	mg/kg	3050/6010A	0.002		1/8/99	PEP
Lead	BDL	mg/kg	3050/6010A	0.04		1/7/99	PEP
Selenium	BDL	mg/kg	3050/6010A	0.2		1/8/99	PEP

(*) = Possible contamination with grinding procedure



Internal Cnt / CLK12-98.xls

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DISTRICT ROUTING SLIP

To: Paul Wierzbicki DATE: 4/26/99

CC To:

	PENSACOLA	**NORTHWEST DISTRICT**	
	Panama City	Northwest District Branch Office	
	Tallahassee	Northwest District Branch Office	
	Sopchoppy	Northwest District Satellite Office	
	TAMPA	**SOUTHWEST DISTRICT**	
	Punta Gorda	Southwest District Branch Office	
	Bartow	Southwest District Satellite Office	
	ORLANDO	**CENTRAL DISTRICT**	
	Melbourne	Central District Satellite Office	
	JACKSONVILLE	**NORTHEAST DISTRICT**	
	Gainesville	Northeast District Branch Office	
	FORT MYERS	**SOUTH DISTRICT**	
	Marathon	South District Branch Office	
✓	**WEST PALM BEACH**	**SOUTHEAST DISTRICT**	
	Port St. Lucie	Southeast District Branch Office	

☐ Reply Optional Date Due _____ ☐ Reply Required Date Due: _____ ☐ Info Only

Comments:

RECEIVED
APR 28 1999
DEPT OF ENV PROTECTION
WEST PALM BEACH

From: Joe Kulakowski Tel.: SC 278-3935

08-18-93

991440

Florida Department of
Environmental Protection

Memorandum

To: Paul Wierzbicki, Southeast District Office

Through: Jim Crane, Bureau of Waste Cleanup JJC

From: Zoe Kulakowski, Bureau of Waste Cleanup ZPK

Date: April 21, 1999

Subject: Rinker Portland Cement Corporation, 1200 Northwest 137th Avenue, Miami, Dade County

I have reviewed the Chapter 62-775, F.A.C. Ground Water Monitoring Report dated March 2, 1999 for the referenced site. The analytical results presented in this report show ground water violations of chrysene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(a)anthracene, and benzo(b)fluoranthene that are above the respective Chapter 62-520 F.A.C. minimum criteria. In addition, other PAHs such as pyrene, fluoranthene, and benzo(g,h,i)perylene were detected in ground water. Thermal treatment facilities should not detect any PAHs in ground water. I called Mr. James Penkosky, Metcalf & Eddy, Inc. to ask about this occurrence. The source is unknown at this time. Well resampling occurred April 2, 1999 and results are expected to be received shortly.

/zpk

See 6/10/99 Rinker fax attch. John

RECEIVED
APR 28 1999
DEPT OF ENV PROTECTION
WEST PALM BEACH

CSR
Rinker

RINKER ENVIRONMENTAL SERVICES
1200 N.W. 137th AVENUE
MIAMI, FL 33182
PHONE # 305-225-1423 / 225-1427
800-226-7647
FAX # 305-220-9875

DATE: 6/10/99

TO: [illegible] FROM: Don Emery

ATTN:

NUMBER OF PAGES INCLUDING COVER: 3

COMMENTS:

[illegible]

Please call me if I need to drop off a copy of GW plans

Thank you

[illegible]

Rinker Materials Corporation
1200 N.W. 137th Avenue
Miami, Florida

Quarterly Report of
Groundwater Monitoring

1.0 BACKGROUND INFORMATION

Rinker Materials Corporation has retained Metcalf & Eddy, Inc. (M&E) to prepare and submit quarterly groundwater monitoring reports to the Florida Department of Environmental Protection (FDEP) in accordance with Rinker's General Permit Application to Construct/Operate a Soil Thermal Treatment Facility (as per Chapter 62-775 F.A.C.). As the 32nd of the required quarterly reports, this report provides:

- groundwater analytical results, and;
- groundwater elevations,

from locations specified in Phase III of the April 1991, Groundwater Monitoring Plan (GWMP) Addendum A. **Figure 1** is a USGS Site Location Map and **Figure 2** illustrates the facility's layout.

This quarterly report is for the period from January through March 1999. The sampling program specified in the April 1991, Phase III GWMP (included as **Table 1**) has been followed.

2.0 GROUNDWATER MONITORING

The 32nd quarterly groundwater monitoring event was performed on April 2, 1999. Prior to sampling, groundwater levels were measured from all monitoring wells and surface water points specified in the GWMP. **Table 2** presents the top of casing and groundwater elevations for each gauged monitoring well. Based on the water elevations recorded during this sampling event, the groundwater flow direction appears to be toward the east, which remains consistent with previous quarterly reports. **Figure 2** presents the groundwater elevation data recorded during this gauging event. A positive groundwater flow direction was unable to be determined during this gauging event; however, previous quarterly reports have indicated an apparent hydraulic gradient toward the east.

Groundwater quality sampling, including pre-sampling well purging, at this site has been conducted in accordance with the procedures outlined in M&Es approved Comprehensive Quality Assurance Plan (CompQAP) No. 900067G. A peristaltic pump was utilized to purge stagnant groundwater from the monitoring wells. Specific conductivity, pH and temperature readings were taken from well purge water until the readings stabilized to indicate sufficient purging. Despite the amount of purging required for the specific conductivity, pH and temperature to stabilize, a minimum of five well volumes of groundwater were purged from each well. Specific Conductivity, pH and temperature readings are presented as **Table 3.** Groundwater samples to be analyzed by EPA Methods 602 and 610 were collected with a teflon bailer that was properly sanitized before each monitoring well was sampled. Groundwater samples to be analyzed for Total RCRA Metals (total arsenic, barium cadmium, chromium, lead, mercury, selenium and silver) were collected directly from the teflon tubing connected to the peristaltic pump. The teflon tubing was also properly sanitized prior to purging and sampling each well. The samples were temporarily stored in a cooler at four degrees Celsius prior to delivery to an on-site laboratory the same day. The laboratory, which is licensed under the name Rinker Environmental Services, was approved as a Florida Department of Environmental Protection (FDEP) facility on October 21, 1997 with the acceptance of a complete CompQAP.

3.0 CONCLUSIONS

Ground water samples were collected on April 2, 1999 and were analyzed for volatile organic aromatics (VOAs) and polynuclear aromatic hydrocarbons (PAHs), EPA Methods 602 and 610, respectfully. Analytical results from the sampling event indicate that concentrations of VOAs and PAHs for all groundwater samples are below method detection limits (BDL) with the exception of MW-7 (PAHs), MW-24 (naphthalene) and MW-26 (naphthalene). Confirmation samples were collected from MW-7, -24, and -26 on May 5, 1999 and analyzed for PAHs. These results revealed that each resampled well registered PAH concentrations that were BDL. The water table gauged during the May 5, 1999 sampling event displayed less than a 0.3 foot variance from the April 2, 1999 event.

All groundwater samples analyzed for Total RCRA Metals (by EPA Methods 6010A (arsenic), 200.7 (barium), 6010A (cadmium), 6010A (chromium), 6010A (lead), 245.1 (mercury), 6010A (selenium) and 6010A (silver) were detected at concentrations below Florida Primary Drinking Water Standards (Chapter 62-550 F.A.C.) with the exception of MW-24 (lead) and MW-25 (lead). Confirmation samples were collected from MW-24 and -25 on May 5, 1999 and analyzed for total lead. These results revealed that the two wells registered lead samples that were BDL. Table 4 summarizes groundwater analytical results for Total RCRA Metals.

Appendix A contains a copy of the laboratory reports. **Appendix B** contains a copy of the confirmation sampling reports.

Quarterly groundwater sampling and reporting will continue in accordance with the approved plan. The next round of sampling is scheduled for early-July, 1999.

VOA	TRPH	Apr-99	*VOA*		*TRPH*	
0.1	273					
3700	10000		Mean	2349.977	Mean	17412.61
0.1	480		Standard Error	1364.719	Standard Error	10120.13
0.1	26		Median	0.1	Median	609
0.1	392		Mode	0.1	Mode	480
5150	9752		Standard Deviation	9052.519	Standard Deviation	67129.33
0.1	1520		Sample Variance	81948106	Sample Variance	4.51E+09
0.1	14		Kurtosis	18.97666	Kurtosis	35.08975
0.1	430000		Skewness	4.437738	Skewness	5.743585
0.1	24200		Range	45607.9	Range	429999
0.1	14000		Minimum	0.1	Minimum	1
0.1	225		Maximum	45608	Maximum	430000
0.1	2636		Sum	103399	Sum	766155
2.1	117000		Count	44	Count	44
23	200		Confidence Level(95.	2674.795	Confidence Level(95.	19835.06
40290	105					
0.1	398					
1650	738					
0.1	1000					
0.1	1					
0.1	27400					
0.1	344					
0.1	400					
0.1	778					
0.1	6458					
1400	2725					
13.8	11000					
4150	172					
0.1	16					
0.1	480					
0.1	11000					
45608	404					
109	411					
0.1	3385					
200	970					
0.1	54					
0.1	240					
1100	1060					
0.1	738					
0.1	160					
0.1	10					
0.1	4420					
0.1	80370					
0.1	200					

Soil Thera[illegible]tment Facility
Treated So..[illegible]ting Form

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

Month _____ Year _____

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results: Total Metals								7 TCLP Metals								8 ppm Totals			
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
12/28 – 113		42	168		3.2	256	.03	74.5	10.4	BDL	10.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.986	47		
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results: Total Metals								7 TCLP Metals								8 Totals			
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
1/4 – 1110		42	168		9.8	436	0.03	102	3.7	BDL	2.6	BDL	BDL	3.6	BDL	0.2	BDL	BDL	BDL	BDL	BDL	BDL		
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results: Total Metals								7 TCLP Metals								8 Totals			
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
1/11 – 1117		42	168		6.3	336	0.03	84	9.3	BDL	4.5	BDL	BDL	4.0	BDL	0.32	BDL	BDL	BDL	BDL	BDL	BDL		
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results: Total Metals								7 TCLP Metals								8 Totals			
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
1/18 – 1124		42	168		4.5	302	.02	72.1	9.9	BDL	1.7	BDL	BDL	3.6	BDL	.39	BDL	BDL	BDL	BDL	BDL	BDL		
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results: Total Metals								7 TCLP Metals								8 Totals			
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
1/25 – 1131		42	168		9.5	311	.02	83.7	12.2	BDL	0.7	BDL	BDL	2.5	BDL	.34	BDL	BDL	BDL	BDL	BDL	BDL		
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH

Soil Thermal Treatment Facility
Treated Soil Reporting Form

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

Month _____ Year _____

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results								7								8	9	10	11
					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
2/1 - 2/7		42	168		2.7	361	.04	823.5	26.3	BDL	2.3	BDL	BDL	3.2	BDL	BDL	.18	BDL	BDL	BDL	BDL	BDL		
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH
2/8 - 2/14		42	168		4.2	386	.03	95.1	18.3	BDL	1.6	BDL	BDL	BDL	BDL	0.4	0.01	BDL	BDL	BDL	BDL	BDL		
2/15 - 2/21		42	168		7.16	426	BDL	80.16	7.4	BDL	1.0	BDL	BDL	BDL	BDL	BDL	0.07	BDL	BDL	BDL	BDL	BDL		
2/22 - 2/28		42	168		5.1	415	.03	76.1	11.2	BDL	0.16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
3/1 - 3/7		42	168		3.3	383	.02	75.4	21.8	BDL	3.8	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL		

DER Form 17-775 900(3)

Soil Thern[illegible]tment Facility
Treated So[illegible]ting Form

[N]ame of Facility: RJ[illegible] MATERIALS CORP
[A]ir Permit No: A013-[illegible]2154
[S]oil Treatment Permit No: SW-01117-91
[St]ationary:XXX or Mobile Facility:

Month ______ Year ______

Columns: 1 = Day of Month; 2 = Soil Batch ID#; 3 = Sample Number; 4 = Length of Run Hours; 5 = Amount Volume or Weight cy/tn; 6 = Analytical Results – Total Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag; Be, CN, Phenols, Dibenzo Furan); 7 = TCLP Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag; Be, Benzene); 8–11 = Totals (VOA, RPH, PAH, VOH; TOH)

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	Total As	Total Ba	Total Cd	Total Cr	Total Pb	Total Hg	Total Se	Total Ag	TCLP As	TCLP Ba	TCLP Cd	TCLP Cr	TCLP Pb	TCLP Hg	TCLP Se	TCLP Ag	VOA	RPH	PAH	VOH
3/8 – 3/14		42	168		3.2	376	BDL	78.5	12.8	BDL	3.4	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL		
3/15 – 3/21		42	168		3.0	178	BDL	95.5	9.6	BDL	11.6	BDL	BDL	BDL	BDL	0.4	BDL	BDL	BDL	BDL	BDL	BDL		
3/22 – 3/31		42	168		3.4	189	BDL	104	11.4	BDL	12.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/1 – 4/7		42	168		4.4	379	BDL	84.7	24	BDL	BDL	BDL	BDL	BDL	0.02	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/7 – 4/11		42	168		5.9	338	BDL	86.5	36.4	BDL	BDL	BDL	BDL	BDL	0.03	BDL	.10	BDL	BDL	BDL	BDL	BDL		

Be, CN, Phenols, Dibenzo Furan (Total); Be, Benzene (TCLP); TOH: blank in all five entries.

DER Form 17-775 900(3)

Soil Thermal Treatment Facility
Treated Soil Recording Form

Name of Facility: RI[illegible] MATERIALS CORP
Air Permit No: A013-[illegible]2154
Soil Treatment Permit No: SW-01117-91
Stationary:XXX or Mobile Facility:

Month _____ Year _____

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results								7 Analytical Results								8 Totals			
					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
4/12		42	168		3.1	K660	BDL	32.0	17	BDL	BDL	BDL	BDL	BDL	0.03	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/18					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH
1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results								7 Analytical Results								8 Totals			
					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
4/19		42	168		2.5	1320	BDL	77.6	19.1	BDL	BDL		BDL	BDL	.03	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4/25					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH
1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results								7 Analytical Results								8 Totals			
					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
4-26		42	168		2.5	1770	4.1	48	31.9	BDL	BDL	6.9	BDL	BDL	0.03	BDL	0.21	BDL	BDL	BDL	BDL	BDL		
5/2					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH
					7.3	BDL	BDL	BDL					BDL	BDL										
1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results								7 Analytical Results								8 Totals			
					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
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH
1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Length of Run Hours	5 Amount Volume or Weight cy/tn	6 Analytical Results								7 Analytical Results								8 Totals			
					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
					Be	CN	Phenols	Dibenzo Furan					Be	Benzene										TOH

DER Form 17-775 900(3)

Site

GENERATOR CERTIFICATION

CSR Rinker

Dear_____:

Thank you for contacting CSR Rinker Environmental Services regarding proper disposition of petroleum contaminated materials generated at the above referenced site. Federal laws and regulations require that you, as the generator of a waste material, make a determination of whether the waste material is a hazardous waste. CSR Rinker Environmental Services is not authorized to accept shipments of hazardous waste.

Laboratory analysis received by CSR Rinker Environmental for the petroleum contaminated materials generated at the above referenced site indicates the presence of the following constituents in the concentration indicated:

Constituent	Analytical Result

Please provide the following clarification regarding the petroleum contaminated material:

1. Describe the process/activity which generated the petroleum contaminated material.

2. Identify by brand or product name any solvent or cleaning agents used in the process or activity generating the petroleum contaminated materials.

3. Identify any other wastes or materials that have been mixed with or added to the petroleum contaminated material.

4. Please execute the following Generator's Waste Declaration:

To the best of my knowledge, the referenced petroleum contaminated materials presented to CSR Rinker Environmental Services for recycling contains no toxic or hazardous constituents that could cause the waste material to be classified as a characteristic or listed hazardous waste. Based upon my knowledge of the source of the materials and the processes or activities involved in generating the materials, I hereby certify that the materials are not a hazardous waste.

_____ _____

Signature Date

_____ _____

Print Name Title

CSR Rinker Materials, 1200 N.W. 137th Avenue, Miami, FL 33182, PO Box 650679, Miami, FL 33265-0679
Telephone (305) 225-1423 Fax (305) 220-9875

PRECISION ENVIRONMENTAL LABORATORY, INC.

first in quality • first in service

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019907
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 103
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
Halogens, Total Organic	BDL	mg/Kg	5050/9253A	10.0	03/07/99	03/07/99	GMS
6010B RCRA 7 Metals in SOIL/WASTES-ICP {No Hg}			MEDF	1			
Arsenic, Total	71.0	mg/Kg	3050/6010B	0.750	03/05/99	03/05/99	CDP
Barium, Total	22.0	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Cadmium, Total	1.00	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Chromium, Total	37.0	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Lead, Total	54.0	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Selenium, Total	72.0	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Silver, Total	BDL	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Mercury (Cold Vapor AA)	0.29	mg/Kg	7471A	0.100	03/05/99	03/08/99	MAH
8021.B VOA {8020} Compounds in Soil & Waste GC			MEDF	1			
Methyl-tert-butyl-ether	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Benzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Toluene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Chlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Ethylbenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
m & p Xylene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
o- Xylene	1.61	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019907
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 103
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
1,3-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,4-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
8021.B VOH (8010) Compounds in Soil & Waste GC			MEDF	10			
Dichlorodifluoromethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Chloromethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Vinyl Chloride	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Bromomethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Chloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Trichlorofluoromethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,1-Dichloroethene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Methylene Chloride	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Trans-1,2-Dichloroethene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,1-Dichloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
2,2-Dichloropropane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Cis-1,2-Dichloroethene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Chloroform	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Bromochloromethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019907
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 103
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
1,1,1-Trichloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,1-Dichloropropene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Carbon Tetrachloride	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2-Dichloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Trichloroethene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2-Dichloropropane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Bromodichloromethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
2-Chloroethylvinyl Ether	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Dibromomethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Cis-1,3-Dichloropropene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Trans-1,3-Dichloropropene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,1,2-Trichloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,3-Dichloropropane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Tetrachloroethene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Dibromochloromethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2-Dibromoethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Chlorobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Bromobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019907
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 103
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
1,1,1,2-Tetrachloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Bromoform	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,1,2,2-Tetrachloroethane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2,3-Trichloropropane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
2-Chlorotoluene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
4-Chlorotoluene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,3-Dichlorobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,4-Dichlorobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2-Dichlorobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2-Dibromo-3-Chloropropane	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2,4-Trichlorobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
Hexachlorobutadiene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
1,2,3-Trichlorobenzene	BDL	mg/Kg	5030/8021B	1.000	03/05/99	03/06/99	MD
FL-PRO (Petroleum Residual Organic)-{SOILS}			MEDF	1			

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019907
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 103
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
Petroleum Range Organics (C8-C40)	157000	mg/Kg	FL-PRO (DEP UST)	1.000	03/05/99	03/06/99	JAY

BDL: Indicates Analyte is Below Detection LimitMEDF: Matrix Effected Dilution Factor***
Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field
Qualifier following result conforms to FAC 62-160 Table 7***Unless otherwise noted, mg/Kg denotes wet weight***
***62-770: If the MDL using the most sensitive and currently available technology is higher than a specific criterion, the PQL shall be used.
Certs:Al.=#41180, Ct.=#PH0217, Ks.=#E270 + E1245, Ky.=#90087, La.=#9601, Md.=#271, Ma.=#M-FL535
NC.=#539, ND.=#R163, OK.=#9523, SC.=#96023, Tn.=#TN02826

Michael A. Spitzer, Laboratory Director

Submission Code: 905 264
Orders: 9-19907-19908
Entered to lims:

PRECISION ENVIRONMENTAL LABORATORY
CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

10200 USA TODAY WAY, MIRAMAR, FLORIDA 33025
(954) 431-4550 • NATL WATS (800) LAB-8550 • FAX (954) 431-1959

Original - Return w/Report Yellow - Lab Copy Pink - Sampler Copy

FDEP Facility No.
Page ____ of ____
Sampling Comp/QAP NO.
Approval Date:

Report To: CLIFF BERRY, INC.
Bill To: P. O. BOX 13079
PORT EVERGLADES STATION
Project Number/Name: Coastal FT. LAUDERDALE, FL 33316
Project Contact: BRANDON DOW Phone: 9547635390 FAX:
Alternate Contact: Fax Phone: 9547640415 FAX:
Sampled By (print): Eustace Williams Sampler's Signature:

Report To Address: CLIFF BERRY, INC.
Billing Address: P. O. BOX 13079
PORT EVERGLADES STATICH
FT. LAUDERDALE, FL 33316
Site Location: Coastal, Port Manatee F

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH FLD	TEMP °C FLD	COND FLD	MATRIX (DW SW GW SED S EFF HW BIO SA)	SAMPLE LOCATION/ JOB DESCRIPTION (optional if needed when samples are from different site locations)	# CONTAINERS	ANALYSIS REQUIRED (PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW. (✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED)	Sample Condition as Received: Temp ____ C Sealed Yes No Lot Number of Sampling Containers Used
										Rinker Pre Burn	
1	TANK 103	3/3/99	1600	9-19907				TANK BOTTOMS	1	X	
2	TANK 105	3/3/99	1600	9-19908				TANK BOTTOMS	1	X	
3											
4											
5											
6											
7											
8											
9											
10											

PO# 7868

Rush # R.S.337

Special Comments:
Total # of Containers: 2

QA/QC Report Needed?: Yes No (See price guide for applicable fees)
Report Format: Standard Other (specify)

(1) Relinquished by Signature:	Date: 3-4-99	(2) Relinquished by Signature:	Date: 3-4-99
Company: CSI	Time: 1508	Company:	Time: 1515
(1) Received by Signature:	Date: 3-4-99	(2) Received by Signature:	Date:
Company:	Time: 1508	Company:	Time:

DUE DATE REQUESTED: 3/8/99 3/5/99
Confirmation #
Costing Code: ____ O/L/D
Misc. Charges

SHADED AREAS ARE FOR LAB USE ONLY

PRECISION ENVIRONMENTAL LABORATORY, INC.

first in quality • first in service

CLIFFT0000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Ft. Everglades Station
Fort Lauderdale, FL 33316

Page 1
March 10, 1999
Submission # 9903000446
Order # 90021162
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmunotee,Florida,Coastal Tank 103 & 105
Relog Submission # 99/03-264

Sample I.D.: Tank 103/19907
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
TCLP Extraction Procedure	FL=1		1311 Extraction		03/04/99	03/09/99	RP
Arsenic, TCLP	BDL	mg/L	1311/6010B	0.01	03/04/99	03/09/99	RAP
Lead, TCLP	BDL	mg/L	1311/7421	0.005	03/04/99	03/09/99	RAP

BDL: Indicates Analyte is Below Detection LimitMEDF: Matrix Effected Dilution Factor***
Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field
Qualifier following result conforms to FAC 62-160 Table 7***Unless otherwise noted, mg/Kg denotes wet weight***
***62-770: If the MDL using the most sensitive and currently available technology is higher than a specific criterion, the PQL shall be used.
Certs:Al.=#41180, Ct.=#PH0217, Ks.=#E270 + E1245, Ky.=#90087, La.=#9601, Md.=#271, Ma.=#M-FL535
NC.=#539, ND.=#R163, OK.=#9523, SC.=#96023, Tn.=#TN02826

Michael A. Spitzer, Laboratory Director

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019908
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 105
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
Halogens, Total Organic	BDL	mg/Kg	5050/9253A	10.0	03/07/99	03/07/99	GMS
6010B RCRA 7 Metals in SOIL/WASTES-ICP {No Hg}			MEDF	1			
Arsenic, Total	14.0	mg/Kg	3050/6010B	0.750	03/05/99	03/05/99	CDP
Barium, Total	6.60	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Cadmium, Total	BDL	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Chromium, Total	307	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Lead, Total	102	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Selenium, Total	BDL	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Silver, Total	BDL	mg/Kg	3050/6010B	1.000	03/05/99	03/05/99	CDP
Mercury (Cold Vapor AA)	0.16	mg/Kg	7471A	0.100	03/05/99	03/08/99	MAH
8021.B VOA {8020} Compounds in Soil & Waste GC			MEDF	1			
Methyl-tert-butyl-ether	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Benzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Toluene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Chlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Ethylbenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
m & p Xylene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
o - Xylene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019908
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 105
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
1,3-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,4-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
8021.B VOH (8010) Compounds in Soil & Waste GC			MEDF	1			
Dichlorodifluoromethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Chloromethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Vinyl Chloride	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Bromomethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Chloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Trichlorofluoromethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,1-Dichloroethene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Methylene Chloride	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Trans-1,2-Dichloroethene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,1-Dichloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
2,2-Dichloropropane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Cis-1,2-Dichloroethene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Chloroform	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Bromochloromethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019908
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 105
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
1,1,1-Trichloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,1-Dichloropropene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Carbon Tetrachloride	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dichloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Trichloroethene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dichloropropane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Bromodichloromethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
2-Chloroethylvinyl Ether	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Dibromomethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Cis-1,3-Dichloropropene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Trans-1,3-Dichloropropene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,1,2-Trichloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,3-Dichloropropane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Tetrachloroethene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Dibromochloromethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dibromoethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Chlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Bromobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019908
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 105
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
1,1,1,2-Tetrachloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Bromoform	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,1,2,2-Tetrachloroethane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2,3-Trichloropropane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
2-Chlorotoluene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
4-Chlorotoluene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,3-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,4-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2-Dibromo-3-Chloropropane	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2,4-Trichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
Hexachlorobutadiene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
1,2,3-Trichlorobenzene	BDL	mg/Kg	5030/8021B	0.100	03/05/99	03/06/99	MD
-PRO (Petroleum Residual Organic)-{SOILS}			MEDF	1			

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 8, 1999
Submission # 9903000264
Order # 90019908
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanatee,Fl.
Coastal Tank 103 & 105

Sample I.D.: Tank 105
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
Petroleum Range Organics (C8-C40)	3740	mg/Kg	FL-PRO (DEP UST)	1.000	03/05/99	03/06/99	JAY

BDL: Indicates Analyte is Below Detection LimitMEDF: Matrix Effected Dilution Factor***
Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field
Qualifier following result conforms to FAC 62-160 Table 7***Unless otherwise noted, mg/Kg denotes wet weight***
***62-770: If the MDL using the most sensitive and currently available technology is higher than a specific criterion, the PQL shall be used.
Certs:Al.=#41180, Ct.=#PH0217, Ks.=#E270 + E1245, Ky.=#90087, La.=#9601, Md.=#271, Ma.=#M-FL535
NC.=#539, ND.=#R163, OK.=#9523, SC.=#96023, Tn.=#TN02826

Michael A. Spitzer, Laboratory Director

Submission Code: 9905-264
Orders: 9-19907-19908
Entered to lims:

PRECISION ENVIRONMENTAL LABORATORY
CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

10200 USA TODAY WAY, MIRAMAR, FLORIDA 33025
(954) 431-4550 • NATL WATS (800) LAB-8550 • FAX (954) 431-1959

FDEP Facility No.
Page ____ of ____
Sampling CompQAP NO.
Approval Date:

Original - Return w/Report | Yellow - Lab Copy | Pink - Sampler Copy

Report To: CLIFF BERRY, INC.	Report To Address: CLIFF BERRY, INC.
Bill To: P.O. BOX 13079 PORT EVERGLADES STATION	Billing Address: P.O. BOX 13079 PORT EVERGLADES STATION
Project Number/Name: Coastal FT. LAUDERDALE, FL 33316	Site Location: FT. LAUDERDALE, FL 33316
Project Contact: BRANDON DOW Phone: 9547633390	FAX: Coastal, Port Manatee F
Alternate Contact: Fax Phone: 9547640415	FAX:
Sampled By (print): Eustace Williams	Sampler's Signature:

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH FLD	TEMP °C FLD	COND FLD	MATRIX (DW SW GW SED S EFF HW BIO SA)	SAMPLE LOCATION/ JOB DESCRIPTION (optional if needed when samples are from different site locations)	# CONTAINERS	ANALYSIS REQUIRED (Rinker PreBurn)
1	TANK 103	3/3/99	1600	9-19907				TANK BOTTOMS	1	X
2	TANK 105	3/3/99	1600	9-19908				TANK BOTTOMS	1	X
3										
4										
5										
6										
7										
8										
9										
10										

PO# 7868

RUSH # R.S. 337

Special Comments:

Total # of Containers: 2

Sample Condition as Received: Temp ____ C Sealed Yes No

Lot Number of Sampling Containers Used

QA/QC Report Needed?: Yes No (See price guide for applicable fees)

Report Format: Standard Other (specify)

(1) Relinquished by Signature:	Date: 3-4-99	(2) Relinquished by Signature:	Date: 3-4-99
Company: CBI	Time: 1508	Company:	Time: 1545
(1) Received by Signature:	Date: 3-4-99	(2) Received by Signature:	Date:
Company:	Time: 1508	Company:	Time:

DUE DATE REQUESTED: 3/8/99, 3/5/99
Confirmation #
Costing Code: ____ O/L/D
Misc. Charges

SHADED AREAS ARE FOR LAB USE ONLY

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 10, 1999
Submission # 9903000446
Order # 90021163
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Portmanotee,Florida,Coastal Tank 103 & 105
Relog Submission # 99/03-264

Sample I.D.: Tank 105/19908
Collected: 03/03/99 16:00
Received: 03/04/99 15:45
Collected by: Eustace Williams

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
TCLP Extraction Procedure	FL=1		1311 Extraction		03/04/99	03/09/99	RP
Chromium, TCLP	BDL	mg/L	1311/6010B	0.10	03/04/99	03/09/99	RAP
Lead, TCLP	BDL	mg/L	1311/7421	0.005	03/04/99	03/09/99	RAP

BDL: Indicates Analyte is Below Detection LimitMEDF: Matrix Effected Dilution Factor***
Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field
Qualifier following result conforms to FAC 62-160 Table 7***Unless otherwise noted, mg/Kg denotes wet weight***
***62-770: If the MDL using the most sensitive and currently available technology is higher than a specific criterion, the PQL shall be used.
Certs:Al.=#41180, Ct.=#PH0217, Ks.=#E270 + E1245, Ky.=#90087, La.=#9601, Md.=#271, Ma.=#M-FL535 NC.=#539, ND.=#R163, OK.=#9523, SC.=#96023, Tn.=#TN02826

Michael A. Spitzer, Laboratory Director

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 130179, Pt. Everglades Station
Fort Lauderdale, FL 33316

March 28, 1999
Submission # 9903001313
Order # 90026803
FDEP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Fort Manatee, FL
Analysis

Sample I.D.: Coastal 105
Collected: 03/24/99 00:00
Received: 03/25/99 14:00
Collected by: Eustace W.

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
TCLP Extraction Procedure	FL=1		1311 Extraction		03/25/99	03/25/99	RP
6010B TCLP RCRA-6 Metals (No PB or Hg) by ICP			MEDF	1			
Arsenic, TCLP	BDL	mg/L	3050/6010B	0.010	03/25/99	03/26/99	CDP
Barium, TCLP	0.11	mg/L	3050/6010B	0.100	03/25/99	03/26/99	CDP
Cadmium, TCLP	BDL	mg/L	3050/6010B	0.005	03/25/99	03/26/99	CDP
Chromium, TCLP	BDL	mg/L	3050/6010B	0.100	03/25/99	03/26/99	CDP
Selenium, TCLP	BDL	mg/L	3050/6010B	0.010	03/25/99	03/26/99	CDP
Silver, TCLP	BDL	mg/L	3050/6010B	0.100	03/25/99	03/26/99	CDP
Lead, TCLP	BDL	mg/L	1311/7421	0.005	03/25/99	03/26/99	CDP
Mercury, TCLP (Cold Vapor AA)	BDL	mg/L	1311/7470A	0.0002	03/25/99	03/27/99	SKL

BDL: Indicates Analyte is Below Detection LimitMEDF: Matrix Effected Dilution Factor***
Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field
Qualifier following result conforms to FAC 62-160 Table 7***Unless otherwise noted, mg/Kg denotes wet weight***
***62-770: If the MDL using the most sensitive and currently available technology is higher than a specific criterion, the PQL shall be used.
Certs:Al.=#41180, Ct.=#PH0217, Ks.=#E270 + E1245, Ky.=#90087, La.=#9601, Md.=#271, Ma.=#M-FL535 NC.=#539, ND.=#R163, OK.=#9523, SC.=#96023, Tn.=#TN02826

Michael A. Spitzer, Laboratory Director

PRECISION ENVIRONMENTAL LABORATORY, INC.

first in quality • first in service

CLIFFB000463
Brandon Dow
Cliff Berry,Inc. (Ft Laud)
P.O. Box 13079, Pt. Everglades Station
Fort Lauderdale, FL 33316

Page 1
March 28, 1999
Submission # 9903001313
Order # 90026802
FDRP CompQAP# 920323
HRS Certification# E86349, 86413

Site Location/Project
Coastal Port Manatee, FL
Analysis

Sample I.D.: Coastal 103
Collected: 03/24/99 00:00
Received: 03/25/99 14:00
Collected by: Eustace W.

PARAMETER	RESULT	UNITS	METHOD	DETECTION LIMIT	DATE EXT.	DATE ANALY.	ANALYST
TCLP Extraction Procedure	FL=1		1311 Extraction		03/25/99	03/25/99	RP
6010B TCLP RCRA-8 Metals (No PB or Hg) by ICP			MEDF	1			
Arsenic, TCLP	BDL	mg/L	3050/6010B	0.010	03/25/99	03/26/99	CDP
Barium, TCLP	BDL	mg/L	3050/6010B	0.100	03/25/99	03/26/99	CDP
Cadmium, TCLP	BDL	mg/L	3050/6010B	0.005	03/25/99	03/26/99	CDP
Chromium, TCLP	BDL	mg/L	3050/6010B	0.100	03/25/99	03/26/99	CDP
Selenium, TCLP	BDL	mg/L	3050/6010B	0.010	03/25/99	03/26/99	CDP
Silver, TCLP	BDL	mg/L	3050/6010B	0.100	03/25/99	03/26/99	CDP
Lead, TCLP	BDL	mg/L	1311/7421	0.005	03/25/99	03/26/99	CDP
Mercury, TCLP (Cold Vapor AA)	BDL	mg/L	1311/7470A	0.0002	03/25/99	03/27/99	SKL

BDL: Indicates Analyte is Below Detection LimitMEDF: Matrix Effected Dilution Factor***
Work Subcontracted to Outside Labs Denoted by HRS Cert ID in Analyst Field
Qualifier following result conforms to FAC 62-160 Table 7***Unless otherwise noted, mg/Kg denotes wet weight***
***62-770: If the MDL using the most sensitive and currently available technology is higher than a specific criterion, the PQL shall be used.
Certs:Al.=#41180, Ct.=#PH0217, Ks.=#E270 + E1245, Ky.=#90087, La.=#9601, Md.=#271, Ma.=#M-FL535
NC.=#539, ND.=#R163, OK.=#9523, SC.=#96023, Tn.=#TN02826

Michael A. Spitzer, Laboratory Director

Submission Code: 99/03-1313
Orders: G- 26802 - 26803
Entered in lims: [signature]

PRECISION ENVIRONMENTAL LABORATORY

CHAIN OF CUSTODY RECORD (DEP 62-770.900 (modified form))

10200 USA TODAY WAY, MIRAMAR, FLORIDA 33025
(954) 431-4550 • NATL WATS (800) LAB-6550 • FAX (954) 431-1959

Original - Return w/Report Yellow - Lab Copy Pink - Sampler Copy

FDEP Facility No.:
Page:
Sampling Comp/QAP #:
Approval Date:

Report To: CLIFF BERRY, INC.
Bill To: P.O. BOX 13079
Project Number/Name: PORT EVERGLADES STATION, FT. LAUDERDALE, FL 33316
Report To Address: CLIFF BERRY, INC. P.O. BOX 13079 PORT EVERGLADES STATION
Billing Address: FT. LAUDERDALE, FL 33316
Project Contact: Brandon Dow Phone: FAX:
Alternate Contact: Jim Dotchin Phone: FAX:
Site Location: Coastal Portmanatee F
Sampled By (print): Eustace W.
Sampler's Signature:

ITEM	SAMPLE ID	DATE COLLECTED	TIME COLLECTED	pH FLD	TEMP °C FLD	COND FLD	MATRIX DW SW GW SED S EFF HW BIO SA	SAMPLE LOCATION/ JOB DESCRIPTION (optional if needed when samples are from different site locations)	# CONTAINERS	TCLP RCRA metals					
1	Coastal 103	2/24						26802	2	X					
2	Coastal 105	2/24						26803	2	X					
3															
4															
5															
6															
7															
8															
9															
10															

ANALYSIS REQUIRED
PLACE NAME OR METHOD NUMBER OF TESTS NEEDED IN LARGE BOXES BELOW.
(✓) CHECK OFF WHICH SAMPLE ITEMS NEED EACH TEST PERFORMED

PO # 8058

Special Comments:
Total # of Containers:

QA/QC Report Needed?: Yes No (See price guide for applicable fees)
Report Format: Standard Other (specify)

(1) Relinquished by Signature: [signature]	Date: 3/24/99	(2) Relinquished by Signature: [signature]	Date: 3-25-99
Company: CBI	Time: 9:45	Company:	Time: 1342
(1) Received by Signature: [signature]	Date: 3-25-99	(2) Received by Signature: [signature]	Date: 3/25/99
Company:	Time: 1320	Company: PEL	Time: 1400

DUE DATE REQUESTED:
Confirmation #
Costing Code:
Misc. Charges

SHADED AREAS ARE FOR LAB USE ONLY

GENERATOR CERTIFICATION

Site MOTIVA EAST
1500 SE 26 ST.

CSR Rinker

Dear _____:

Thank you for contacting CSR Rinker Environmental Services regarding proper disposition of petroleum contaminated materials generated at the above referenced site. Federal laws and regulations require that you, as the generator of a waste material, make a determination of whether the waste material is a hazardous waste. CSR Rinker Environmental Services is not authorized to accept shipments of hazardous waste.

Laboratory analysis received by CSR Rinker Environmental for the petroleum contaminated materials generated at the above referenced site indicates the presence of the following constituents in the concentration indicated:

Constituent	Analytical Result
SEE ATTACHED ANALYTICAL RESULTS	

Please provide the following clarification regarding the petroleum contaminated material:

1. Describe the process/activity which generated the petroleum contaminated material.

2. Identify by brand or product name any solvent or cleaning agents used in the process or activity generating the petroleum contaminated materials.

3. Identify any other wastes or materials that have been mixed with or added to the petroleum contaminated material.

4. Please execute the following Generator's Waste Declaration:

To the best of my knowledge, the referenced petroleum contaminated materials presented to CSR Rinker Environmental Services for recycling contains no toxic or hazardous constituents that could cause the waste material to be classified as a characteristic or listed hazardous waste. Based upon my knowledge of the source of the materials and the processes or activities involved in generating the materials, I hereby certify that the materials are not a hazardous waste.

Signature _____ Date 3-15-99

Larry D. Ulrich Operations
Print Name Title

CSR Rinker Materials, 1200 N.W. 137th Avenue, Miami, FL 33182, PO Box 650679, Miami, FL 33265-0579
Telephone (305) 225-1423 Fax (305) 220-9875

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	2/16/99	DATE SAMPLED	2/3/99
SAMPLE SOURCE	MOTIVA	DATE RECEIVED	2/3/99
SAMPLE LOCATION		REFERENCE #	CLIFF BERRY
COLLECTED BY		R.E.S. NUMBER	11831
SAMPLE TYPE	SLUDGE	PAGE	Page 1 of 2

PARAMETER	RESULTS	UNITS	METHOD	DETECTION LIMITS	ANALYSIS DATE	ANALYST INITIAL
Arsenic	11.6	mg/kg	7060	0.5	2/4/99	PEP
Barium	85	mg/kg	7080	10	2/8/99	PEP
Cadmium	1.1	mg/kg	7130	0.5	2/8/99	PEP
Chromium	16.7	mg/kg	7191	0.8	2/8/99	PEP
Mercury	BDL	mg/kg	7471A	0.08	2/4/99	JSP
Lead	19.6	mg/kg	7420	5	2/8/99	PEP
Selenium	BDL	mg/kg	7740	0.4	2/8/99	PEP
Silver	BDL	mg/kg	7760	1.0	2/8/99	PEP
Chloromethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
Bromomethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
Vinyl Chloride	BDL	ug/kg	5030/8021	150	2/5/99	AP
Dichlorodifluoromethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
Chloroethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
Methylene Chloride	BDL	ug/kg	5030/8021	150	2/5/99	AP
Trichlorofluoromethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,1-Dichloroethene	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,1-Dichloroethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
trans-1,2-Dichloroethene	BDL	ug/kg	5030/8021	150	2/5/99	AP
Chloroform	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,2-Dichloroethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,1,1-Trichloroethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
Carbon Tetrachloride	BDL	ug/kg	5030/8021	150	2/5/99	AP
Bromodichloromethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,2-Dichloropropane	BDL	ug/kg	5030/8021	150	2/5/99	AP
cis-1,3-Dichloropropene	BDL	ug/kg	5030/8021	150	2/5/99	AP
Trichloroethene	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,1,2-Trichloroethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
1,1,2,2-Tetrachloroethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
trans-1,3-Dichloropropene	BDL	ug/kg	5030/8021	150	2/5/99	AP
Dibromochloromethane	BDL	ug/kg	5030/8021	150	2/5/99	AP
Bromoform	BDL	ug/kg	5030/8021	150	2/5/99	AP
Tetrachloroethene	BDL	ug/kg	5030/8021	150	2/5/99	AP

REPORT DATE	2/16/99	**DATE SAMPLED**	2/3/99
SAMPLE SOURCE	MOTIVA	**DATE RECEIVED**	2/3/99
SAMPLE LOCATION		**REFERENCE #**	CLIFF BERRY
COLLECTED BY		**R.E.S. NUMBER**	11831
SAMPLE TYPE	SLUDGE	**PAGE**	Page 2 of 2

PARAMETER	RESULT	UNITS	METHOD	D. LIMITS	ANALYSIS DATE	ANAL. INITIAL
MTBE	BDL	ug/kg	5030/8021	150	2/5/99	AP
Benzene	BDL	ug/kg	5030/8021	150	2/5/99	AP
Toluene	525	ug/kg	5030/8021	150	2/5/99	AP
Ethylbenzene	BDL	ug/kg	5030/8021	150	2/5/99	AP
p-Xylene	BDL	ug/kg	5030/8021	150	2/5/99	AP
Chlorobenzene	BDL	ug/kg	5030/8021	150	2/5/99	AP
m-Xylene	BDL	ug/kg	5030/8021	150	2/5/99	AP
o-Xylene	16,000	ug/kg	5030/8021	150	2/5/99	AP
1,4-Dichlorobenzene	1,650	ug/kg	5030/8021	150	2/5/99	AP
1,3-Dichlorobenzene	800	ug/kg	5030/8021	150	2/5/99	AP
1,2-Dichlorobenzene	4,500	ug/kg	5030/8021	150	2/5/99	AP
TRH	551,975	mg/kg	9073	1	2/4/99	AP
Halogens	BDL	mg/kg	9020	100	2/4/99	AP
TCLP As	BDL	mg/L	1311	0.2	2/9/99	PEP

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

Florida Department of Environmental Regulation

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

Month April 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 #	17-775.900(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			Indicate Other Analyses
Date	Reporting ID#	Number	Wt. cy/tn	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only
4/ 1/99	3002894 - 199900012	1.	64.37	1.3	630.	3.0	7.8	106.	0.42	BDL.	5.7	BDL.	273.	BDL.	
4/ 1/99	3002912 - 199900001	1.	68.66	0.7	6.4	0.06	3.5	2.8	BDL.	BDL.	BDL.	3700.	10000.	BDL.	
4/ 1/99	3016752 - 199900005	1.	6.28	0.8	57.6	0.26	5.9	34.8	BDL.	BDL.	0.1	BDL.	480.	BDL.	
* 4/ 1/99	3026933 - 199900004	1.	79.37	15.8	1.90	BDL.	1.80	BDL.	BDL.	BDL.	BDL.	BDL.	26.7	BDL.	
* 4/ 1/99	3041297 - 199900004	24.	86.80	.56	1018.45	2.89	31.22	280.73	.75	3.9	4.2	BDL.	392.	BDL.	
4/ 1/99	499COD2 - 199900001	1.	3.50	1.5	11.1	0.12	3.9	9.3	BDL.	BDL.	BDL.	5150.	9752.	BDL.	
4/ 2/99	3003055 - 199900002	1.	117.50	0.9	BDL.	27.9	19.6	59.4	BDL.	BDL.	1.	BDL.	1520.	BDL.	
4/ 2/99	3026910 - 199900001	1.	137.07	3.94	5.80	0.03	1.44	5.80	<0.001	<0.10	0.02	BDL.	13.6	BDL.	
4/ 5/99	3026926 - 199900009	1.	.29	BDL.	2.3	0.02	2.6	2.5	0.68	BDL.	BDL.	BDL.	430000.	BDL.	
4/ 6/99	COD9901 - 199900005	1.	23.12	1.4	BDL.	0.16	19.4	39.	BDL.	BDL.	BDL.	BDL.	24200.	BDL.	
4/12/99	3002944 - 199900002	1.	13.74	8.7	<29.	<0.4	11.	13.	<0.4	<3.3	1.1	BDL.	14000.	BDL.	
4/12/99	3003350 - 199900002	7.	3326.38	BDL.	4.12	BDL.	2.71	BDL.	BDL.	BDL.	BDL.	BDL.	225.	BDL.	
4/13/99	499COD1 - 199900001	1.	.25	4.	16.3	0.27	8.6	27.6	0.63	0.60	BDL.	BDL.	2636.	BDL.	
4/13/99	499COD3 - 199900002	1.	26.16	BDL.	9.23	.312	2.58	6.27	BDL.	BDL.	BDL.	2.10	117000.	BDL.	
4/14/99	3002931 - 199900002	1.	141.66	4.0	5.	BDL.	9.	2.	BDL.	BDL.	BDL.	23.	200.	BDL.	
4/14/99	3002994 - 199900001	1.	.50	BDL.	2.40	BDL.	2.60	11.	BDL.	BDL.	BDL.	40290.	105.	BDL.	
* 4/14/99	3016756 - 199900002	1.	1.25	2.5	986.	2.9	9.9	124.	0.31	BDL.	5.4	BDL.	398.	BDL.	
4/14/99	3026926 - 199900008	1.	8.35	0.9	143.	0.17	9.17	23.4	BDL.	BDL.	BDL.	1650.	738.	BDL.	
4/14/99	COD9901 - 199900004	1.	25.19	1.2	174.	BDL.	19.7	41.1	BDL.	BDL.	BDL.	BDL.	1000.	BDL.	
4/15/99	3002855 - 199900007	5.	1079.69	BDL.	3.43	BDL.	4.1	2.53	BDL.	BDL.	BDL.	BDL.	BDL.	BDL.	
4/15/99	3002894 - 199900015	1.	17.13	BDL.	128.	BDL.	11.8	13.9	BDL.	BDL.	BDL.	BDL.	27400.	BDL.	
* 4/15/99	3002894 - 199900016	1.	26.08	1.3	927.	2.8	9.5	127.	0.28	BDL.	5.0	BDL.	344.	BDL.	
4/15/99	3026881 - 199900001	1.	.50	2.1	326.	1.9	9.3	15.3	BDL.	BDL.	2.1	BDL.	400.	BDL.	

15.8 1018 27.9 31.2 280 .75 3.9 5.9

Florida Department of Environmental Regulation

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

Month April 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 #	**17-775.900(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			Indicate Other Analyses
Date	Reporting ID#	Number	Wt. cy/tn	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only
4/15/99	499COD6 - 199900001	1.	13.78	BDL.	1760.	BDL.	30.40	23.90	BDL.	BDL.	BDL.	BDL.	778.	BDL.	
4/16/99	3002894 - 199900013	1.	8.70	BDL.	118.	1.1	4.2	6.8	BDL.	BDL.	BDL.	BDL.	6458.	BDL.	
4/16/99	3002894 - 199900014	1.	9.80	1.0	23.6	0.68	5.6	37.1	BDL.	BDL.	BDL.	1400.	2725.	BDL.	
4/16/99	3002928 - 199900002	1.	17.69	0.33	4.60	<0.84	2.09	1.67	<0.004	1.13	<1.67	13.83	11000.	.115	
4/16/99	3005044 - 199900001	1.	17.32	BDL.	4.5	BDL.	1.7	BDL.	BDL.	BDL.	BDL.	4150.	172.	BDL.	
4/16/99	3013187 - 199900002	1.	.25	BDL.	5.7	BDL.	6.8	BDL.	BDL.	BDL.	BDL.	BDL.	16.	BDL.	
* 4/16/99	3026926 - 199900007	1.	11.50	1.3	795.	2.9	9.8	148.	0.28	BDL.	3.4	BDL.	480.	BDL.	
4/19/99	3026883 - 199900004	3.	603.91	BDL.	2.8	BDL.	3.4	4.3	BDL.	BDL.	BDL.	BDL.	11000.	BDL.	
4/20/99	3002885 - 199900001	5.	1119.81	BDL.	5.52	0.1	3.48	27.8	.004	BDL.	BDL.	45608.	404.40	BDL.	
4/21/99	3026933 - 199900005	1.	118.11	BDL.	2.	BDL.	5.40	2.4	BDL.	BDL.	BDL.	109.	411.	BDL.	
4/22/99	499COD3 - 199900001	1.	22.38	4.8	880.	1.2	6.9	26.8	0.26	BDL.	2.8	BDL.	3385.	BDL.	
* 4/23/99	3002894 - 199900017	1.	111.02	10.3	1630.	2.88	35.1	57.4	BDL.	BDL.	6.5	200.	970.	BDL.	
4/23/99	3002928 - 199900003	3.	239.41	BDL.	17.63	BDL.	1.85	84.47	BDL.	.19	BDL.	BDL.	54.	BDL.	
4/23/99	3002976 - 199900001	3.	701.97	1.5	11.9	BDL.	10.9	5.7	BDL.	BDL.	BDL.	.296	240.	0.18	
4/23/99	3017655 - 199900003	1.	8.13	BDL.	3.20	BDL.	2.6	12.	BDL.	BDL.	BDL.	1190.	1060.	BDL.	
4/24/99	499COD5 - 199900001	1.	.20	BDL.	106.	BDL.	5.3	31.5	0.16	0.70	BDL.	BDL.	738.	BDL.	
4/26/99	3013187 - 199900003	1.	3.76	<1.0	<50.	<10.	<25.	<25.	<0.10	<10.	<25.	BDL.	160.	BDL.	
4/27/99	3002857 - 199900001	1.	62.95	BDL.	5.7	BDL.	1.0	BDL.	BDL.	BDL.	BDL.	BDL.	10.7	BDL.	
4/28/99	3002931 - 199900003	1.	18.64	6.0	29.	0.1	3.0	6.0	0.1	0.5	0.5	BDL.	4420.	BDL.	
* 4/28/99	3026883 - 199900005	1.	72.49	42.5	14.	.50	172.	78.	.225	36.	BDL.	BDL.	80370.	BDL.	
4/29/99	499COD7 - 199900001	1.	16.35	BDL.	2.3	BDL.	3.5	14.	BDL.	BDL.	BDL.	BDL.	200.	BDL.	

42 30 29 155 148 .28 36 6.5

Florida Department of E. .onmental 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 April **Year** 99

1	2	3	4	5								6	7	8
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										
				Metals								Totals		Source
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	
1-Apr														
3026933-	199900004													
untreated	analysis			15.8	1.9	BDL	1.8	BDL	BDL	BDL	BDL	.....	.....	DOT SW 8 ST & 73
blending	soil			BDL	.....	.....	.....	.....	.....	.....	.....			Blended 2 - 1
blending	soil			1.9	.....	.....	.....	.....	.....	.....	.....			
1-Apr														
3041297-	199900004													
untreated	analysis			0.56	1018	2.89	31.22	280.73	0.75	3.9	4.2	.....	.....	KEY WEST NAVAL
blending	soil			.....	.....	.....	.....	BDL	.....	.....	.....			Blended 2 - 1
blending	soil			.....	.....	.....	.....	13.8	.....	.....	.....			
14-Apr														
3016756-	199900002													
untreated	analysis			2.5	986	2.9	9.9	124	0.31	BDL	5.4	.....	.....	FMCC
blending	soil			.....	.....	.....	.....	BDL	.....	.....	.....			Blended 1 - 1
blending	soil			.....	.....	.....	.....	51.5	.....	.....	.....			
15-Apr														
3002894-	199900016													
untreated	analysis			1.3	927	2.8	9.5	127	0.28	BDL	5	.....	.....	E/R PIFTON
blending	soil			.....	.....	.....	.....	BDL	.....	.....	.....			Blended 1 - 1
blending	soil			.....	.....	.....	.....	33.5	.....	.....	.....			

Form: ATTACH_A

Florida Department of E.. ..onmental 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 April **Year** 99

1	2	3	4	5								6	7	8
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										
				Metals								Totals		Source
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	
16-Apr														
3026926-	199900007													
untreated	analysis			1.3	795	2.9	9.8	148	0.28	BDL	3.4			HERTZ EQUIP
blending	soil			.....	.....	.....	.....	BDL	.....	.....	.....	.....	.....	Blended 1 - 1
blending	soil			.....	.....	.....	.....	34	.....	.....	.....			
23-Apr														
3002843-	199900017													
untreated	analysis			10.3	1630	2.88	35.1	57.4	BDL	BDL	6.5			E/R SPILL FLA CITY
blending	soil			BDL	.....	.....	.....	.....	.....	.....	.....	.....	.....	Blended 1 - 1
blending	soil			2.4	.....	.....	.....	.....	.....	.....	.....			
28-Apr														
3026883-	199900005													
untreated	analysis			42.5	14	0.5	172	78	0.225	36	BDL			COASTAL PT MAN
blending	soil			BDL	.....	.....	BDL	.....	.....	.....	.....	.....	.....	Blended 1 - 1
blending	soil			0.9	.....	.....	15.5	.....	.....	.....	.....			
untreated	analysis													
blending	soil													
blending	soil													

Form: ATTACH_A

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 5/15/99
SAMPLE DATE
SAMPLE SOURCE DOT – SW 8 ST & 73 AVE
REFERENCE # 3026933-99004
R.E.S. NUMBER 12487/12488
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	LIMITS REG.	ANALYSIS DATE	ANALYST INITIAL
ARSENIC	1.9	BDL	1.9	mg/kg	7061	1	10	5/13/99	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 5/15/99
SAMPLE DATE
SAMPLE SOURCE FMCC
REFERENCE # 3016756-99002
R.E.S. NUMBER 12493/12517
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	LIMITS REG.	ANALYSIS DATE	ANALYST INITIAL
LEAD	124	BDL	51.5	mg/kg	7420	1	100	5/13/99	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 5/15/99
SAMPLE DATE 4/15/99
SAMPLE SOURCE PIFTON ALUMINUM
REFERENCE # 3002894-99016
R.E.S. NUMBER 12491/12518
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	LIMITS REG.	ANALYSIS DATE	ANALYST INITIAL
LEAD	127	BDL	33.5	mg/kg	7420	1	100	5/13/99	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 5/15/99
SAMPLE DATE 4/16/99
SAMPLE SOURCE HERTZ EQUIPMENT
REFERENCE # 3026926-99007
R.E.S. NUMBER 12490/12516
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	LIMITS REG.	ANALYSIS DATE	ANALYST INITIAL
LEAD	148	BDL	34	mg/kg	7420	1	100	5/13/99	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 5/15/99
SAMPLE DATE
SAMPLE SOURCE E/R SPILL CUSTARD INSURANCE
REFERENCE # 3002894-99017
R.E.S. NUMBER 12485/12486
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	LIMITS REG.	ANALYSIS DATE	ANALYST INITIAL
ARSENIC	1.1	BDL	2.4	mg/kg	7061	1	10	5/13/99	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 5/15/99
SAMPLE DATE 4/28/99
SAMPLE SOURCE COASTAL – PT. MANATEE
REFERENCE # 3026883-99005
R.E.S. NUMBER 12483/12484
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	LIMITS REG.	ANALYSIS DATE	ANALYST INITIAL
ARSENIC	1.9	BDL	0.9	mg/kg	7061	1	10	5/13/99	PEP
CHROMIUM	9.2	BDL	15.5	mg/kg	7190	1	50	5/14/99	PEP

BLEND = 1 Contaminated With 4 CLEAN (As)
BLEND = 1 Contaminated With 4 CLEAN (Cr)
BDL = Below detection limit

Juan Gonzalez
QA/QC Manager