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December 21, 1995

Enterprise Recovery Systems Site Group (ERSSG)
c/o Mr. Eugene Smary, Esquire
Warner, Norcross & Judd
900 Old Kent Building
111 Lyon Street, N.W.
Grand Rapids, Michigan 49503

Subject: Enterprise Recovery Systems Site
Final Report
WCC Project No. 93B477

Dear Mr. Smary:

Woodward-Clyde Consultants (WCC) is pleased to submit the enclosed final report. This report documents all removal activities as required by the Environmental Protection Agency (EPA) Administrative Order on Consent for Removal Action for the above referenced site. We have enjoyed working with you and the ERSSG on this important project. If we can be of further assistance to you or any member of the ERSSG, please do not hesitate to contact us.

Very truly yours,

Andrew C. Eversull
Senior Project Engineer

Charles B. Dartez, CHMM
Senior Consultant

AE:lrs

Enclosures

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1.0
CERTIFICATION

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Andrew C. Eversull
ERS Project Coordinator

Charles B. Dartez
ERS Project Manager

2.0
INTRODUCTION

This is the Final Report of the Enterprise Recovery Systems Site Group ("ERSSG") to the U.S. Environmental Protection Agency (EPA) in fulfillment of the requirements of the Administrative Order on Consent for Removal Action (AOC) Docket No. 94-43-C. The AOC and a list of the companies comprising the ERSSG are included in this report as Appendix A. The substantive requirements of the AOC are as follows:

- "Arrange for a permanent alternative potable water supply to those residents listed in the Work Plan whose wells are or will be contaminated by releases at or from the Site, and conduct periodic sampling of residential wells listed in the Work Plan which may become contaminated."

- "Arrange for the ultimate disposal and/or treatment of hazardous waste materials stored in onsite drums, tanks, and other containers in a manner satisfactory to EPA."

- "Complete all preliminary site investigation activities required to define the nature and extent of soil contamination above the water table at the Site. This investigation shall cover, as set out in the Work Plan, all areas of the Site presently identified as contaminated by the past release of hazardous substances into the environment. In addition, Respondents shall collect and analyze an additional twenty (20) soil samples from other locations at the Site as chosen by EPA."

- "Control the source of existing releases or threatened releases of hazardous substances in the environment from the Site in such a manner and to the extent necessary to achieve compliance with the following cleanup standards." The cleanup standards ("cleanup standards") are presented in tabular form as follows:

PARAMETER	CLEANUP STANDARD (ppm)
Acetone	500
Ethylbenzene	500
Methyl Ethyl Ketone (MEK)	500
Toluene	500
Trichloroethylene	50
1,1,1- Trichloroethane	250
Xylene	500

"This may include, but not be limited to, the excavation of contaminated soil."

- "Arrange for the ultimate disposal and/or treatment of contaminated soil and debris impacted by the release of hazardous substances into the environment from the site in a manner satisfactory to EPA."

This final report documents that each of the requirements listed in the AOC has been completed.

Section 3.0 of this report provides a brief description of the environmental setting and background information on the ERS site. Site activities and materials removed as part of the AOC are described in Section 4.0 and the effectiveness of these actions are discussed in Section 5.0. All costs associated with the activities performed as part of the AOC, excluding legal fees, are summarized in Section 6.0. Section 7.0 reviews the difficulties encountered during the removal activities and Section 8.0 presents recommendations for the site. Copies of the EPA-approved Workplans, approved addenda thereto and associated documents are included in Appendix B. Sample results are presented in the tables and in Appendix C and waste disposal documents are included in Appendix D. Copies of contracts for removal services are included in Appendix E and copies of invoices and bills are included in Appendix F. Permits were not required for any of the removal activities, therefore no copies are included in this Final Report.

3.0 SUMMARY OF EVENTS

3.1 THE INITIAL SITUATION

The ERS site is located at Route 5 Box 287 on Cayce Road, approximately one quarter mile off U.S. Highway 72 just inside the Mississippi state line southeast of Collierville, Tennessee (Figure 1). The site consists of an 8 acre parcel located in the NW1/4, Section 22, Township 1 South, Range 4 West. The area around the site is rural. Several homes are located within 200 yards of the site. Nonconnah Creek headwaters flow alongside the northern and eastern boundaries of the site and the site is within the recharge area of the Kosciusko Aquifer.

ERS operated as a solvent recycling/recovery facility from 1978 to 1991. Figure 2 depicts the area layout during the facility operations. In 1988, ERS received a RCRA Part B permit (facility I.D. number MSD000693176). In July 1991, the Mississippi Department of Environmental Quality (MDEQ) issued ERS an order to provide drinking water to surrounding residents, and prepare a soil and groundwater investigation work plan to assess potential environmental impacts from the facility. ERS subsequently appealed this order and did not perform the required work. The MDEQ later withdrew its action. In October 1991, ERS reportedly ceased operations.

Tanks, drums, drum contents, and laboratory materials were left on site following ERS' cessation of operations. Subsequent investigations by EPA in August and September 1992, identified hazardous materials stored in tanks and drums.

3.2 CAUSE OF RELEASE AND LOCATION OF HAZARDOUS SUBSTANCES

Although past problems at the site were reported, all causes of the releases at the ERS site are not known. Soil staining near the storage area and pitting/scaling corrosion on numerous storage vessels indicated spills and/or leaks had occurred from these storage vessels. EPA also identified contaminants of concern in the soil in and around the processing and storage areas of the facility consisting of ethyl benzene, styrene, methylene chloride, toluene, trichloroethylene, xylene, acetone, methyl ethyl ketone, methyl isobutyl ketone and 1,1-

dichloroethane. The areas of concern at the site were identified by the EPA and designated as areas A, B, C, D, and E (Figure 3). Testing of nearby residential wells indicated the presence in some of those wells of trichloroethylene, 1,1,1-trichloroethane, and 1,1-dichloroethylene. The source of the contaminants in the residential drinking water wells was not verified. However, the EPA initially provided drinking water to the residents, and required the ERSSG to continue providing drinking water until the residents could be connected to a permanent drinking water supply.

3.3 EFFORTS TO OBTAIN RESPONSE BY POTENTIALLY RESPONSIBLE PARTIES

EPA identified potentially responsible companies through EPA Hazardous Waste Manifests for materials allegedly sent to the ERS facility. In June 1993 EPA sent a letter notifying 47 of these parties that they were potentially liable for cleanup costs at the site.

3.4 ORGANIZATION OF THE RESPONSE

Twenty-nine companies identified by EPA formed the ERSSG. These companies then executed the AOC and initiated their response as approved by EPA. In 1994, EPA notified over 300 additional parties of their potential liability for cleanup at the site as a result of their arranging for disposal of small quantities of hazardous substances at the ERS facility. As a result, the majority of these deminimus parties settled with EPA pursuant to a separate administrative order. All field activities required in the AOC were completed in July 1995. The following sections describe the activities associated with the completion of the AOC.

4.0 RESPONSE ACTIVITIES

The ERSSG response at the ERS site was conducted in two phases. Phase I addressed the potable water supply for the nearby residents and the removal of materials stored in drums, tanks, and other containers abandoned on the site. Phase II included a soil assessment and soil removal action at the facility. The following sections present the response activities associated with each of these phases of work.

4.1 PHASE I ACTIVITIES

4.1.1 Abatement of Threat to Residential Potable Water Supply

Phase I activities were initiated in September 1993 by continuing the bottled water supply to the Crum, Cook, and Watkins residents near the site. The EPA began supplying these residents with bottled water following detection of elevated organic volatile compounds in the groundwater wells in 1992. Bottled water was supplied by Continental Water Systems located in Memphis, Tennessee. In the summer/fall of 1994, the local water district in Marshall County installed a municipal water supply line in the area around the ERS facility. The ERSSG offered to connect the municipal water supply to each of the residents who had previously been supplied bottled water. In return, the residents were asked to disconnect their groundwater well and plug and abandon the well. All expenses for water well abandonment were to be paid for by the ERSSG. The groundwater well was disconnected and plugged and abandoned at the Crum residence and this residence was connected to the municipal water supply in November/December 1994. During this same time period, the Cook and Watkins residents also connected their homes to the municipal water supply; however, both of these residents refused to plug and abandon their groundwater well. In January 1995, the bottled water supplied to these residents was discontinued. The EPA On-Scene Coordinator (OSC) was notified of the water well status at the nearby residences in the December 1994 and January 1995 monthly status reports.

4.1.2 Abatement of Threat from Hazardous Waste Material In Drums, Tanks, and Other Containers; Disposal Approaches Pursued

The ERSSG contracted Rust Remedial Services (Rust) in Houston, Texas to remove the materials stored in the drums, tanks, and containers on the site. Service contracts with the ERSSG are included in Appendix F. Rust prepared a Draft Workplan on September 27, 1993 which described the Phase I activities to be performed at the site. This Draft Workplan was approved by the EPA OSC and a Final Workplan was approved on November 15, 1993 (Appendix B). Work began at the site on September 30, 1993 to remove the material stored in the tanks, drums and other containers as well as dismantling and disposing these storage vessels. Environmental and Safety Designs, Inc. (EnSafe) was contracted in October 1993 to oversee the site activities performed by Rust. Mr. Jeff Bennett of EnSafe was appointed by the ERSSG, and approved by the EPA OSC, as Project Coordinator. EnSafe subcontracted Business Environmental Consulting, Inc. also located in Memphis, Tennessee to assist in coordinating the site activities on a daily basis with Rust.

Rust identified 38 storage tanks and 216 drums present on the site. Materials stored in the tanks and drums were sampled and analyzed for waste stream classification/disposal profiling and to determine which materials could be bulked. All samples were submitted to Chemical Waste Management (CWM) Southern Region Laboratory located in Port Arthur, Texas for laboratory analysis (Appendix C-1). Based on the analytical results obtained by Rust and those previously obtained by the EPA, the stored material was segregated into three profiles: 1) fuel blending - low chlorides; 2) fuel blending - high chlorides; and 3) incineration. The waste classification was approved by the EPA OSC. All of these materials were sent to a CWM facility and the waste manifests and/or certificates of disposal are presented in Appendix D-1.

Stormwater which had accumulated inside the main tank farm containment area (approximately 40,000 gallons) was collected in three tanker trucks. A sample of the collected stormwater was submitted to the Laidlaw commercial wastewater treatment facility in Nashville, Tennessee for testing and profiling. Based on the sample results (Appendix C-2), the stormwater was shipped to the Laidlaw facility for treatment and disposal. All certificates of disposal for the stormwater are presented in Appendix D-2.

Following the stormwater removal from the main tank farm containment area, the empty waste storage tanks were dismantled and all resulting scrap metal was placed in roll-off boxes. All remaining waste storage tanks located on the site were also dismantled and placed in roll-off boxes. Accumulated sludge in the tanks ("tank bottoms") was removed, solidified, and placed in roll-off boxes for shipment to an approved disposal facility. Representative samples of the metal debris and tank bottoms were shipped to the CWM Southern Region Laboratory for analysis and profiling (Appendix C-3). The waste classification was approved by the EPA OSC. Waste manifests and certificates of destruction for this material are included in Appendix D-3.

In January 1994, Rust began shipping all waste material that had been staged on the site in roll-off boxes to the appropriate waste disposal facilities. The concrete containment structure in the main tank farm was dismantled and removed to prevent further accumulation of stormwater in this area. Concrete debris was placed in roll-off boxes and a representative sample was analyzed for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOC) by Environmental Testing and Consulting, Inc. (ETC) located in Memphis, Tennessee (Appendix C-4). Due to the elevated trichloroethene concentration in the concrete sample, the concrete debris was characterized as a hazardous waste. All concrete debris was shipped to the CWM facility in Carlyss, Louisiana for proper disposal. All manifests and certificates of disposal are included in Appendix D-4.

Removal of the concrete from the former main tank farm area resulted in an estimated two foot depression in the soil. To prevent rain water from accumulating in this depressed area, visqueen was placed in the bottom of the depression and approximately two feet of clean backfill was placed on top of the visqueen. The visqueen was placed in the depression to separate the clean backfill from the potentially contaminated soil within the area of the main tank farm.

All drummed waste, including ERS laboratory chemicals which were placed in over packs, was shipped to an approved CWM disposal facility. The waste sample analysis/profile description and certificates of disposal are included in Appendixes C-5 and D-5, respectively.

Table 1 lists the profile number, type, material description, quantity, and disposal facility for all waste material removed from the site during the Phase I activities.

4.2 PHASE II ACTIVITIES

Phase II activities included developing and implementing a soil screening and sampling plan for the seven compounds for which cleanup standards were set for the AOC "constituents of concern". Investigation areas at the site were previously identified by EPA (Figure 3). The objective of the plan was to identify the horizontal and vertical extent of concentrations of the contaminants of concern in the soil above the groundwater table at the previously identified areas (designated "Areas A-E"). Phase II activities also included preparing and implementing a soil removal workplan for the identified areas which contained contaminants of concern at or above the AOC cleanup standards. Woodward-Clyde Consultants (Woodward-Clyde) was retained by the ERSSG to prepare and implement the soil sampling and analysis plan, and the soil removal workplan. All workplans were approved by the EPA OSC and are included in Appendix B.

4.2.1 Soil Sampling and Analysis

The soil sampling and analysis plan was implemented on March 1-6, 1994. Woodward-Clyde collected a total of 53 surfical soil samples at depths of 6 to 12 inches below land surface (bls) throughout Areas A through E. In addition, a total of 15 soil borings were completed throughout the designated areas to depths ranging from 8 to 9 feet bls. Soil samples were collected in each boring at one foot intervals. Although not provided for in the approved soil sampling and analysis plan, the EPA OSC unilaterally collected 13 surfical soil samples during the sampling activities. Splits of the surficial samples taken by the EPA OSC were not provided to the ERSSG or to Woodward-Clyde.

All soil samples collected by Woodward-Clyde were field screened for VOC response using an organic vapor analyzer (OVA). The OVA was used to measure the VOC concentrations emitted from the soil sample which had accumulated in the "head-space" of the sample collection container. In addition to soil screening, 14 surficial soil samples and 16 soil boring samples were selected for laboratory analysis by EPA Method SW-846 8240. Soil screening results are presented in Table 2 and analytical results are presented in Table 3. The

laboratory analytical reports are included as Appendix C-6. Figure 4 depicts the soil sample locations and Figure 5 shows the areas at the site with OVA readings exceeding 100 ppm and 1,000 ppm. All soil samples were analyzed by Analytical Technologies, Inc. located in Pensacola, FL and the sample results were presented to the EPA as part of the Soil Removal Workplan in May 1994.

4.2.2 Soil Removal Work Plan; Disposal Approaches

The Soil Removal Workplan presented the rationale and approach for dealing with the areas of concern identified by Woodward-Clyde. The test results indicated elevated concentrations of the constituents of concern were present at one sample location in Area A and one sample location in Area C. Due to the relatively low volume of soil estimated for cleanup (40.5 cubic yards), soil excavation was selected as the most appropriate response option. Alternative response options such as in-situ bio-venting and ex-situ vapor extraction were also reviewed as potential alternatives. However, the costs to implement these response options, which may have required from several months to several years in order to reduce the levels of constituent of concern below the cleanup standards, were estimated to be equal to or greater than excavation and disposal costs at an approved disposal facility.

Two of the 13 independent soil samples collected unilaterally by the EPA OSC were reported to contain elevated levels of the contaminants of concern. These samples were collected outside of the previously identified areas of concern at the site. One sample was collected approximately 75 feet east of Area A beneath the former main tank storage area by penetrating the backfill and visqueen which the ERSSG had placed in this area. The second sample was collected in the soil beneath the north tank storage area. The sample located near Area A was subsequently included as part of Area A and the second sample was designated as Area F. The areas around these two samples were subsequently included as part of the proposed soil removal areas; pursuant to the Soil Removal Workplan Addendum No. 1.

Prior to implementing the Soil Removal Workplan, the EPA informed the ERSSG that additional soil samples should be collected at the site and analyzed for compounds other than the seven constituents of concern listed in the AOC. Specifically, EPA requested analysis for semi-volatile compounds by EPA Method SW-846 8270 and RCRA metals (Barium, Cadmium, Chromium, Silver, Arsenic, Lead, Selenium, and Mercury) by EPA Methods 6010

and 7470. Analytical results for these additional samples would be used to document additional contaminants present at the site in elevated concentrations. The ERSSG agreed to collect five additional surface soil samples (one in Area A, three in Area C, and one in Area F) to determine if additional contaminants were present at the site in elevated concentrations. These five samples were collected in October 1994 by Woodward-Clyde. Sample locations for the five additional soil samples are illustrated in Figure 6. These sample locations were selected adjacent to the areas of proposed excavation to document the soil conditions at the site near the areas of concern. Table 4 presents the analytical results from this additional sampling activity. Semi-volatile organics and the RCRA metals were not detected in significant concentrations in these samples. Laboratory sample results for these samples are presented in Appendix C-7.

4.2.3 Soil Removal Activities

Following the completion of the soil sampling activities, soil removal activities began at the site on December 13, 1994. In preparation of the soil removal activities, on November 14, 1994, Andrew Eversull with Woodward-Clyde was approved by the ERSSG and approved by the EPA OSC to replace Jeff Bennett as the Project Coordinator for this phase of the response. The ERSSG contracted Rust to perform the soil excavation work and Woodward-Clyde provided oversight and field screening to determine the areal and vertical extent of the soil removal. This work was performed in accordance with the Soil Removal Workplan. The EPA OSC was also present during the removal activities to document the site conditions and work activities.

Approximately 1,310 cubic yards of soil from Areas A, C, and F were removed and shipped to the CWM facility in Carlyss, Louisiana. Prior to soil excavation and removal, a five-point composite soil sample was collected from each of the designated soil removal areas for waste profiling. These sample results are presented in Appendix C-8. The sample results indicated the soil was non-hazardous and the first 14 shipments leaving the site were designated as non-hazardous waste. However, the ERSSG voluntarily and with approval from the EPA OSC, decided that all soil shipped to the CWM facility would be designated as hazardous waste and appropriately manifested. Based on this modificaiton in the waste profile, the first 14 shipments to the CWM Carlyss, Louisiana facility were remanifested as hazardous waste and disposed of properly. The soil disposal manifests are included in Appendix D-6. The

soil disposal manifests have been signed by the receiving waste disposal facility; therefore, a certificate of disposal has not been included in Appendix D-6. Figure 7 depicts the areal extent of excavation in each area of the site. A description of the site activities in each of the soil removal areas is described in the following sections. All confirmation samples were submitted for analytical analysis to ETC located in Memphis, Tennessee.

Area A

Area A was excavated to a maximum depth of six feet bls and the total excavation volume was calculated to be approximately 1,006 cubic yards. Soil samples ERS1-S-A18 through ERS1-S-A33 were collected in Area A as confirmation samples (Appendix C-9). All post-excavation confirmation sample results in Area A were below the AOC cleanup standards. Table 5 and Figure 8 present the sample results and location of the confirmation samples.

Area C

The maximum depth of excavation in Area C was 15 feet bls and the total excavation volume was calculated to be approximately 250 cubic yards. During excavation activities in Area C, a metal pipe was identified approximately 1 to 1.5 feet bls. The metal pipe traveresed this area in an east to west orientation. Observation during the excavation activity showed that, before the ERSSG initiated any activities, 1) the west end of the pipe had been previously disconnected or severed near the oil/water separator prior to any soil removal in Area C, and 2) the east end of the metal pipe was previously inserted into a larger diameter PVC pipe which appears to continue in an easterly direction from Area C.

A total of 10 soil confirmation samples were collected in Area C. These results are reported in Table 6 and the sample locations are shown in Figure 9. Laboratory results are presented in Appendix C-10. Three confirmation soil samples in Area C (C22, C25, and C26) contained concentrations of the constituents of concern that exceed the AOC cleanup standards. Expansion excavation and sampling were performed in the vicinity of sample C22, and the subsequent verification samples in this area (C27, C28, and C29) were below the AOC cleanup standards (Table 7 and Figure 9). Soil removed during the expansion activity (approximately 80 tons) was stockpiled near Area A. Subsequent TCLP analysis of a composite sample taken from this pile indicated that the stockpiled soil was a non-hazardous

material (Table 8, Appendix C-11). After expansion excavation in the area of sample C22, only two samples remained which exceeded the AOC cleanup standards, samples C25 and C26 taken from the east end of the excavation.

Area F

The concrete pad and berm wall in Area F were removed using an excavator and stockpiled approximately 50 feet north of this area. TCLP analysis of the concrete revealed that this material was also non-hazardous (Table 9, Appendix C-12).

In order to supplement the available data on the lateral and vertical extent of constituents of concern in Area F, during and after excavation, 13 additional soil samples were collected. Figure 10 and Table 10 present the sample locations and results. The laboratory report of results are included in Appendix C-13. Addendum No. 2 of the Soil Removal Workplan was prepared, submitted and approved by the EPA OSC to include these sample results as part of the work at the site. Results obtained from these samples indicated that of the 13 samples analyzed, only one sample collected at six feet bls contained an elevated concentration of 1,1,1-trichloroethane. All remaining samples collected in this area, including the sample collected immediately above at three feet bls and below at nine feet bls were below the AOC cleanup standards.

Due to inclement weather conditions, the soils in and around Area F became saturated and quickly inhibited the use of the front-end loader to convey soil from the excavator to the transportation trucks. A temporary shell/dirt road was constructed between Cayce Road and Area F in an attempt to allow the excavator access to the transportation trucks and three truck loads of soil were removed (approximately 54 cubic yards) on December 18, 1994.

4.2.4 Post Excavation Activities

Following the soil removal activities from December 13 through 18, 1994, the ERSSG ceased soil excavation activities to determine the estimated volume of contaminated soil remaining on site and to address future treatment/disposal options. The volume of soil removed during the excavation activities was significantly greater than the estimated quantity determined during the soil screening and sampling activities. In addition, local storms in the area on December 21, 1994 resulted in considerable water accumulation in the Area A and C excavations.

Soil and concrete sample results from Area F and the sample results from the soil stockpiled near Area A were reviewed to determine the appropriate response for treatment and/or disposal options for these materials. Addendum No. 3 to the Soil Removal Workplan modified the soil sampling approach to further delineate potential soil contamination along the eastern portion of Area C using a geo-probe to collect the soil samples. This addendum was approved by the EPA OSC. The geo-probe samples collected on March 10, 1995 indicated no elevated concentrations of the constituents of concern approximately three feet from the perimeter of the excavation. Based on these results, the ERSSG determined that additional excavation was not warranted in this area. The EPA OSC subsequently concurred with this determination. These results are listed in Table 11 and the analytical report is included as Appendix C-14. The sample locations are shown on Figure 11.

A review of the data collected in Area F indicated that only one sample of 13 exceeded the AOC cleanup standards; therefore, this area was not an immediate soil contamination concern and further excavation in this area was not necessary. The EPA OSC concurred with this determination by approval of Addendum No. 3 which documented the Area F sample results and promulgated no further action in this area.

TCLP volatile, semi-volatile, herbicide and pesticide analyses were performed on the soil and concrete stockpiles to properly classify these materials. Results from these analyses confirmed that these materials were non-hazardous. Based on this classification, the ERSSG requested, and the EPA OSC approved, using these materials to backfill Areas A and C.

On March 9, 1995, Woodward-Clyde collected water samples from the Area A and C excavation pits. These samples were analyzed by EPA Method 8240, TCLP volatile organics, semi-volatile organics, metals, reactivity, ignitability, and pH to properly classify the water and determine the appropriate treatment/disposal option. The laboratory results presented in Table 12, Appendix C-15 indicated the water was a non-hazardous substance and could be properly treated by the Laidlaw industrial water treatment facility located in Nashville, Tennessee.

The ERSSG contracted OH Materials to perform the soil backfilling and Laidlaw to remove and treat the accumulated water in the excavation pits. Woodward-Clyde provided oversight in the field to complete these activities. A total of 60,000 gallons of water was removed from the Area A and C excavation pits with pumper trucks on June 27 and 28, 1995. The waste manifests and certificates of disposal for the water are included in Appendix D-7. Soil backfilling was initiated at the site on June 28, 1995 and completed on June 29, 1995. A sample of the soil backfill was analyzed prior to placing this material at the site to ensure the backfill was not contaminated (Appendix C-16). Analytical results indicate the soil backfill is clean and the results are presented in Table 13. The stockpiled soil and concrete were placed in the two excavation pits and approximately 1,178 cubic yards of clean soil was transported to the site to complete the backfilling in Areas A and C.

5.0
EFFECTIVENESS OF REMOVAL ACTION

The removal actions performed at the ERS site have effectively accomplished the five objectives listed in the AOC. These actions have been presented in previous sections of this report; however, a summary of these actions is presented below.

- A permanent alternative water supply is in place and in use by the residents listed in the Work Plan.

- All waste materials stored in onsite drums, tanks, and other containers have been properly removed and disposed.

- A soil assessment/investigation was completed in the areas previously identified by the EPA and in other locations. The soil assessment was significantly broadened in Area A, and a previously unidentified area, Area F, was included as part of the assessment/investigation.

- The identified areas of concern in which cleanup standards were exceeded were excavated to minimize the threatened release of hazardous substances into the environment. The excavation activities were performed with the oversight of the EPA OSC.

- All soil and debris removed from the site were shipped to permitted and approved disposal facilities for proper disposal.

Based on the results of the confirmation samples collected throughout Areas A, C, and F following the soil removal activities, the immediate soil contaminant threat to human health and the environment in these areas has been abated consistent with the removal action standards. These results indicate the removal action has been completed, and has accomplished each of the objectives listed in the AOC.

6.0
REMOVAL COSTS

Based on the invoices presented during the assessment and removal activities, the costs incurred to complete the AOC activities are presented below. These costs also include expenses previously incurred at the site by the EPA. Invoice copies for these costs are included in Appendix F.

ITEM	COSTS
EPA	$115,370.37
CONTRACTORS RUST Continental Water Supply Laidlaw OSCO EnSafe OH Materials Woodward-Clyde	$1,714,533.00
NON-LEGAL EXPENSES Technical expenses incurred by the ERSSG Technical Committee to fulfill the initial on-site supervision and liaison with EPA	$11,716.57
TRUST CHARGES FOR ACCOUNT MAINTENANCE	$3,090.14
TOTAL	$1,844,710.08

7.0
DIFFICULTIES ENCOUNTERED DURING REMOVAL ACTION

The major difficulty encountered during the removal action was the inclement weather conditions during the Phase II soil removal activities in December 1994. The soil in and around Area F became saturated and operation of the excavator in this area became prohibitive. In addition, rain water accumulated in the Area A and Area C excavations. This water had to be sampled, removed and properly disposed before these excavations could be backfilled.

8.0
RECOMMENDATIONS

The activities performed in accordance with the AOC have removed the designated on-site sources of hazardous waste materials and controlled the source of contaminants released in the upper soils as per the removal standards in the AOC. Accordingly, the ERSSG recommends that the removal action be certified as complete.

TABLES

TABLE 1

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
MATERIAL DESCRIPTION AND QUANTITY REMOVED DURING PHASE I ACTIVITIES

PROFILE NO.	TYPE	MATERIAL	QUANTITY		DISPOSAL FACILITY
50180	Bulk	Non-hazardous storm water	73,750.00	gal	Laidlaw - Nashville, TN
AN1804	Drum	Corrosive non-flammable liquid	1	drum	CWM - Emelle, AL
AN1805	Bulk	Chlorinated flammable solid	50	tons	CWM - Marrow, GA
AN1807	Bulk	Oil dry and used oil	32.4	tons	CWM - Carlyss, LA
AN1808	Bulk	Tank steel, crushed drums, etc.	184.27	tons	CWM - Carlyss, LA
BK3540	Drum	Corrosive flammable liquid	1	drum	CWM - Emelle, AL
BK3542	Drum	Chlorinated flammable liquid	8	drums	CWM - Emelle, AL
BK3543	Bulk	Fuels 2 to 5% chlorine	12,300	gal	CWM - Emelle, AL
BK3544	Bulk	Fuels 0 to 2% chlorine	24,488	gal	CWM - Emelle, AL
BK3545	Bulk	Incineration material	265,495	lbs	CWM - Emelle, AL
BK3546	Drum	Chlorinated non-flammable liquid	7	drums	CWM - Emelle, AL
BK3547	Drum	Chlorinated non-flammable liquid	7	drums	CWM - Emelle,AL
BK3548	Drum	Chlorinated non-flammable solid	2	drums	CWM - Emelle,AL
BK3549	Drum	Chlorinated non-flammable solid	19	drums	CWM - Emelle, AL
BK3550	Drum	Inert liquid	2	drums	CWM - Emelle, AL
BK5626	Drum	Lab Packs	19	drums	CWM - Emelle, AL
BO4211	Bulk	Contaminated concrete	264.52	tons	CWM - Carlyss, LA
BO4213	Bulk	Chlorinated tank bottoms	66.17	tons	CWM - Port Arthur, TX
BO4220	Bulk	Non-chlorinated tank bottoms	43.85	tons	CWM - Port Arthur, TX

TABLE 2

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SURFICIAL SOIL SAMPLE OVA RESULTS

Sample Date	Soil I.D. Number	Depth Collected Below Land Surface (feet)	OVA Reading (ppm)
AREA A			
3/2/94	ERS1-SS-A01-G	0.5-1.0	>1000
3/2/94	ERS1-SS-A02-G	0.5-1.0	470
3/2/94	ERS1-SS-A03-G	0.5-1.0	480
3/2/94	ERS1-SS-A04-G[1,2]	0.5-1.0	>1000
3/2/94	ERS1-SS-A05-G	0.5-1.0	>1000
3/2/94	ERS1-SS-A06-G	0.5-1.0	60
3/2/94	ERS1-SS-A07-G	0.5-1.0	100
3/2/94	ERS1-SS-A08-G[1]	0.5-1.0	440
3/2/94	ERS1-SS-A09-G[1]	0.5-1.0	<1
3/2/94	ERS1-SS-A10-G	0.5-1.0	42
3/2/94	ERS1-SS-A11-G	0.5-1.0	140
3/2/94	ERS1-SS-A12-G	0.5-1.0	34
3/2/94	ERS1-SS-A13-G[1]	0.5-1.0	72
3/2/94	ERS1-SS-A14-G	0.5-1.0	44
3/2/94	ERS1-SS-A15-G	0.5-1.0	1.4
AREA B			
3/1/94	ERS1-SS-B01-G	0.5-1.0	21
3/1/94	ERS1-SS-B02-G[1,2]	0.5-1.0	56
3/1/94	ERS1-SS-B03-G	0.5-1.0	18
3/1/94	ERS1-SS-B04-G	0.5-1.0	2.8
3/1/94	ERS1-SS-B05-G[1]	0.5-1.0	8.2
3/2/94	ERS1-SS-B06-G	0.5-1.0	<1
AREA C			
3/1/94	ERS1-SS-C01-G	0.5-1.0	280
3/1/94	ERS1-SS-C02-G	0.5-1.0	310
3/1/94	ERS1-SS-C03-G	0.5-1.0	20
3/1/94	ERS1-SS-C04-G	0.5-1.0	120
3/1/94	ERS1-SS-C05-G[1,2]	0.5-1.0	>1000
3/2/94	ERS1-SS-C06-G	0.5-1.0	26
3/2/94	ERS1-SS-C07-G	0.5-1.0	100
3/2/94	ERS1-SS-C08-G	0.5-1.0	36
3/2/94	ERS1-SS-C09-G	0.5-1.0	380
3/2/94	ERS1-SS-C10-G[1]	0.5-1.0	>1000
3/2/94	ERS1-SS-C11-G	0.5-1.0	350
3/2/94	ERS1-SS-C12-G	0.5-1.0	420
3/2/94	ERS1-SS-C13-G	0.5-1.0	2.6
3/3/94	ERS1-SS-C14-G	0.5-1.0	32
3/3/94	ERS1-SS-C15-G	0.5-1.0	14

TABLE 2

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SURFICIAL SOIL SAMPLE OVA RESULTS

Sample Date	Soil I.D. Number	Depth Collected Below Land Surface (feet)	OVA Reading (ppm)
AREA D			
3/1/94	ERS1-SS-D01-G	0.5-1.0	340
3/1/94	ERS1-SS-D02-G	0.5-1.0	100
3/1/94	ERS1-SS-D03-G	0.5-1.0	200
3/1/94	ERS1-SS-D04-G	0.5-1.0	5
3/1/94	ERS1-SS-D05-G	0.5-1.0	110
3/2/94	ERS1-SS-D06-G	0.5-1.0	<1
3/2/94	ERS1-SS-D07-G[1,2]	0.5-1.0	360
3/2/94	ERS1-SS-D08-G[1]	0.5-1.0	60
3/3/94	ERS1-SS-D09-G	0.5-1.0	240
3/3/94	ERS1-SS-D10-G	0.5-1.0	27
3/3/94	ERS1-SS-D11-G	0.5-1.0	9.6
AREA E			
3/1/94	ERS1-SS-E01-G	0.5-1.0	12
3/1/94	ERS1-SS-E02-G	0.5-1.0	8.6
3/1/94	ERS1-SS-E03-G[1,2]	0.5-1.0	500
3/1/94	ERS1-SS-E04-G	0.5-1.0	18
3/1/94	ERS1-SS-E05-G[1]	0.5-1.0	16
3/1/94	ERS1-SS-E06-G[1,3]	0.5-1.0	24

1 Sample submitted for laboratory analysis
2 Sample split with EPA
3 Duplicate Sample

TABLE 3

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SOIL ASSESSMENT RESULTS
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number	Analytical Parameters						
	Acetone (ppm)	Ethyl-benzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloro-ethylene[2] (ppm)	1,1,1-Tri-chloroethane (ppm)	Xylene (ppm)
Area A - Surface Samples							
ERS1-SS-A04-GS[3]	-[4]	470	-	1600	710	-	2400
ERS1-SS-A08-G[5]	.051	0940	.008	.211	.060	.018	4.2
ERS1-SS-A09-G	.036	.022	-	.100	.320	.090	.110
ERS1-SS-A13-G	-	-	-	.008	.220	.033	-
Area A - Boring Samples							
ERS1-SB-A01-GS-78	43	-	15	-	-	-	.600
ERS1-SB-A02-GS-23	-	-	-	-	.017	-	-
ERS1-SB-A03-G-56	.013	-	.009	-	.003	-	-
Area B - Surface Samples							
ERS1-SS-B02-GS	-	-	-	-	-	.034	-
ERS1-SS-B05-G	-	.003	-	.028	.163	.019	.016
EPA CLEANUP STANDARD	**500**	**500**	**500**	**500**	**50**	**250**	**500**

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "GS" = Grab Sample Split With EPA
4. "-" = Non-detect
5. "G" = Grab Sample

TABLE 3

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SOIL ASSESSMENT RESULTS
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number	Analytical Parameters						
	Acetone (ppm)	Ethyl-benzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloro-ethylene[2] (ppm)	1,1,1-Tri-chloroethane (ppm)	Xylene (ppm)
Area B - Boring Samples							
ERS1-SB-B01-GS-23	-	1.5	-	5.2	.210	1.3	7.7
ERS1-SB-B01-GS-78	.013	.002	.015	.009	.100	.008	.016
ERS1-SB-B02-G-67	-	-	-	-	.033	-	-
ERS1-SB-B03-G-56	.020	-	.017	.019	.120	.019	.006
Area C - Surface Samples							
ERS1-SS-C05-GS	-	1.5	-	2.6	.120	-	10
ERS1-SS-C09-G	.013	.015	.029	.062	.110	.049	.075
ERS1-SS-C10-G	-	-	-	-	740	-	-
Area C - Boring Samples							
ERS1-SB-C01-GS-78	19	-	130	-	-	-	3.8
ERS1-SB-C02-GS-67	-	-	-	-	-	-	-
ERS1-SB-C03-G-01	.050	.006	.020	-	.012	-	0.54
EPA CLEANUP STANDARD	**500**	**500**	**500**	**500**	**50**	**250**	**500**

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "GS" = Grab Sample Split With EPA
4. "-" = Non-detect
5. "G" = Grab Sample

TABLE 3

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SOIL ASSESSMENT RESULTS
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number	Analytical Parameters						
	Acetone (ppm)	Ethyl-benzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloro-ethylene[2] (ppm)	1,1,1-Tri-chloroethane (ppm)	Xylene (ppm)
ERS1-SB-C03-D-01	.130	.009	.037	-	.006	-	.076
Area D - Surface Samples							
ERS1-SS-D02-G	.076	-	-	.016	.200	.033	.005
ERS1-SS-D07-GS	.031	-	-	-	.090	.014	-
ERS1-SS-D08-G	.022	-	-	-	.062	.007	-
Area D - Boring Samples							
ERS1-SB-D01-G-12	.073	-	.016	.009	.038	.009	-
ERS1-SB-D02-G-78	-	-	-	-	.045	.011	-
ERS1-SB-D03-G-01	.044	-	-	-	.007	-	-
Area E - Surface Samples							
ERS1-SS-E03-GS	-	6	-	6	1.2	43	57
ERS1-SS-E05-G	-	-	-	-	.036	-	-
EPA CLEANUP STANDARD	500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "GS" = Grab Sample Split With EPA
4. "-" = Non-detect
5. "G" = Grab Sample

TABLE 3

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SOIL ASSESSMENT RESULTS
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number	Analytical Parameters						
	Acetone (ppm)	Ethyl-benzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloro-ethylene[2] (ppm)	1,1,1-Tri-chloroethane (ppm)	Xylene (ppm)
ERS1-SS-E05-D	-	-	-	-	.110	.061	-
Area E - Boring Samples							
ERS1-SB-E01-G-78	-	-	-	-	-	-	-
ERS1-SB-E02-G-01	-	-	-	-	.024	.024	-
ERS1-SB-E03-G-01	-	.004	-	.006	.072	.007	.038
EPA CLEANUP STANDARD	500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "GS" = Grab Sample Split With EPA
4. "-" = Non-detect
5. "G" = Grab Sample

TABLE 4

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC AND RCRA TOTAL METAL SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results µg/l[1]				
	A16	C16	C17	C18	F1
Benzoic Acid	-[2]	-	-	-	-
4-Chloro-3-Methylphenol	-	-	-	-	-
2-Chlorophenol	-	-	-	-	-
2,4-Dichlorophenol	-	-	-	-	-
2,6-Dichlorophenol	-	-	-	-	-
2,4-Dimethylphenol	-	-	-	-	-
4,6-Dinitro-2-Methylphenol	-	-	-	-	-
2,4-Dinitrophenol	-	-	-	-	-
2-Methylphenol	-	-	-	-	-
4-Methylphenol	-	-	-	-	-
2-Nitrophenol	-	-	-	-	-
4-Nitrophenol	-	-	-	-	-
Pentachlorophenol	-	-	-	-	-
Phenol	-	-	-	-	-
2,3,4,6-Tetrachlorophenol	-	-	-	-	-
2,4,5-Trichlorophenol	-	-	-	-	-
2,4,6-Trichlorophenol	-	-	-	-	-
Acenaphthene	-	-	-	-	-
Acenaphthylene	-	-	-	-	-
Acetophenone	-	-	-	-	-
4-Aminobiphenyl	-	-	-	-	-
Aniline	-	-	-	-	-
Anthracene	-	-	-	-	-
Benzidine	-	-	-	-	-
Benzo (A) Anthracene	-	-	-	-	-
Benzo (A) Pyrene	-	-	-	-	-
Benzo (B) Fluoranthene	-	-	-	-	-
Benzo (G,H,I) Perylene	-	-	-	-	-
Benzo (K) Flouranthene	-	-	-	-	-
Benzyl Alcohol	-	-	-	-	-
Bis(2-Chlorethoxy) Methane	-	-	-	-	-
Bis(2-Chlorethyl) Ether	-	-	-	-	-
Bis(2-Chloroisopropyl) Ether	-	-	-	-	-
Bis(2-Ethylexyl) Phthalate	1,700	4,400	2,000	-	-
4-Bromophenyl Phenyl Ether	-	-	-	-	-
Butylbenzyl Phthalate	-	-	700	550	-
4-Chloroaniline	-	-	-	-	-
1-Chloronaphthalene	-	-	-	-	-
2-Chloronaphthalene	-	-	-	-	-
4-Chlorophenyl Phenyl Ether	-	-	-	-	-
Chrysene	-	-	-	-	-

1 µg/l is equivalent to parts per billion (ppb)
2 "-" Non-detect
3 mg/kg is equivalent to parts per million (ppm)

TABLE 4

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC AND RCRA TOTAL METAL SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results µg/l[1]				
	A16	C16	C17	C18	F1
Dibenz (A,J) Acridine	-	-	-	-	-
Dibenzo (A,H) Anthracene	-	-	-	-	-
Dibenzofuran	-	-	-	-	-
1,2-Dichlorobenzene	-	-	-	-	-
1,3-Dichlorobenzene	-	-	-	-	-
1,4-Dichlorobenzene	-	-	-	-	-
3,3-Dichlorobenzidine	-	-	-	-	-
Diethylphthalate	-	-	-	-	-
P-Dimethylaminoazobenzene	-	-	-	-	-
7,12-Dimethylbenz(A) Anthracene	-	-	-	-	-
A-,A-Dimethylphenethylamine	-	-	-	-	-
Dimethylphthalate	-	-	-	-	-
DI-N-Butylphthalate	2,300	2,000	1,900	1,200	-
2,4-Dinitrotoluene	-	-	-	-	-
2,6-Dinitrotoluene	-	-	-	-	-
DI-N-Octylphthalate	-	-	-	-	-
Diphenylamine	-	-	-	-	-
1,2-Diphenylhydrazine	-	-	-	-	-
Fluoranthene	-	-	-	-	-
Fluorene	-	-	-	-	-
Hexachlorobenzene	-	-	-	-	-
Hexachlorobutadiene	-	-	-	-	-
Hexachlorocyclopentadiene	-	-	-	-	-
Hexachloroethane	-	-	-	-	-
Indeno (1,2,3-CD) Pyrene	-	-	-	-	-
Isophorone	-	-	-	-	-
3-Methylcholanthrene	-	-	-	-	-
2-Mehtylnaphthalene	-	-	-	-	-
Naphthalene	-	-	-	-	-
1-Naphthylamine	-	-	-	-	-
2-Naphthylamine	-	-	-	-	-
2-Nitroaniline	-	-	-	-	-
3-Nitroaniline	-	-	-	-	-
4-Nitroaniline	-	-	-	-	-
Nitrobenzene	-	-	-	-	-
N-Nitrosodimethylamine	-	-	-	-	-
N-Nitrosodi-N-Butylamine	-	-	-	-	-
N-Nitrosodiphenylamine	-	-	-	-	-
N-Nitroso-DI-N-Propylamine	-	-	-	-	-
N-Nitrosopiperidine	-	-	-	-	-
Penthachlorobenzene	-	-	-	-	-

1 µg/l is equivalent to parts per billion (ppb)
2 "-" Non-detect
3 mg/kg is equivalent to parts per million (ppm)

TABLE 4

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC AND RCRA TOTAL METAL SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results µg/l[1]				
	A16	C16	C17	C18	F1
Pentachloronitrobenzene (PCNB)	-	-	-	-	-
Phenacetin	-	-	-	-	-
Phenanthrene	-	-	-	-	-
2-Picoline	-	-	-	-	-
Pronamide	-	-	-	-	-
Pyrene	-	-	-	-	-
1,2,4,5-Tetrachlorobenzene	-	-	-	-	-
1,2,4-Trichlorobenzene	-	-	-	-	-
RCRA Total Metals	**Results (mg/kg[3])**				
Silver	-	-	1	-	-
Arsenic	-	-	6	7	-
Barium	96	87	65	70	56
Cadmium	0.5	-	-	-	-
Chromium	24	20	17	15	10
Mercury	-	-	-	-	-
Lead	32	24	18	17	11
Selenium	-	-	-	-	-

1 µg/l is equivalent to parts per billion (ppb)
2 "-" Non-detect
3 mg/kg is equivalent to parts per million (ppm)

TABLE 5

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
VERIFICATION SOIL SAMPLE RESULTS
AREA A

Sample I.D	Date	Acetone (ppm)	Ethylbenzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloroethylene[2] (ppm)	1,1,1-Trichloroethane (ppm)	Xylene (ppm)
ERS1-S-A18-C[3]	12/16/94	-[4]	-	-	-	0.27J[5]	-	-
ERS1-S-A19-G[6]	12/16/94	-	-	-	-	-	-	-
ERS1-S-A20-G	12/16/94	-	-	-	-	-	-	-
ERS1-S-A21-G	12/16/94	-	-	-	-	0.65	-	-
ERS1-S-A22-G	12/16/94	-	-	-	-	-	-	-
ERS1-S-A23-G	12/18/94	-	-	-	-	-	-	-
ERS1-S-A24-G	12/18/94	-	-	-	-	-	-	-
ERS1-S-A25-G	12/18/94	-	-	-	-	-	-	-
ERS1-S-A26-G	12/18/94	-	-	-	-	-	-	-
ERS1-S-A27-C	12/18/94	-	-	-	-	-	-	-
ERS1-S-A28-C	12/18/94	-	194	-	398	43.7	5.99	497
ERS1-S-A29-C	12/18/94	-	-	-	-	-	-	-
ERS1-S-A30-C	12/18/94	-	-	-	-	-	-	-
EPA CLEANUP STANDARD		500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "C" = Composit Soil Sample
4. "-" = Non-Detect
5. "J" = Estimate
6. "G" = Grab Soil Sample

TABLE 5

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
VERIFICATION SOIL SAMPLE RESULTS
AREA A

Sample I.D	Date	Acetone (ppm)	Ethylbenzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloroethylene[2] (ppm)	1,1,1-Trichloroethane (ppm)	Xylene (ppm)
ERS1-S-A31-C	12/18/94	-	88.1	-	14.6	4.65J	-	58.4
ERS1-S-A32-C	12/18/94	-	-	-	-	-	0.26J	-
ERS1-S-A33-C	12/18/94	-	-	-	-	-	-	-
EPA CLEANUP STANDARD		500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "C" = Composit Soil Sample
4. "-" = Non-Detect
5. "J" = Estimate
6. "G" = Grab Soil Sample

TABLE 6

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
VERIFICATION SAMPLE RESULTS
AREA C

Sample I.D	Date	Acetone (ppm)	Ethylbenzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloroethylene[2] (ppm)	1,1,1-Trichloroethane (ppm)	Xylene (ppm)
ERS1-S-C20-SWC[3]	12/15/94	-[4]	0.00891	-	0.0938	0.611	0.0779	0.0406
ERS1-S-C21-G[5]	12/15/94	-	0.00252J[6]	-	0.0133	3.86	0.157	0.00366
ERS1-S-C22-SWC	12/15/94	-	-	-	39.2	2,030	406	28.8
ERS1-S-C23-G	12/15/94	0.235	0.00456J	0.0561	0.0277	0.783E[7]	0.0382	0.0297
ERS1-S-C24-G	12/15/94	-	-	-	0.0109	8.21	2.27	0.00361J
ERS1-S-C25-SWC	12/15/94	-	0.0067	-	0.0282	98.9E	15.8	0.025
ERS1-S-C26-G	12/15/94	1.18E	0.665E	0.440	3.17	273E	9.9	3.04
ERS1-S-C27-G	12/20/94	-	-	-	-	-	-	-
ERS1-S-C28-G	12/20/94	-	-	-	-	-	-	-
ERS1-S-C29-G	12/20/94	-	-	-	-	0.104J	-	-
EPA CLEANUP STANDARD		500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "C" = Composit Soil Sample
4. "-" = Non-Detect
5. "G" = Grab Soil Sample
6. "J" = Estimate
7. "E" = Concentration exceeds the established calibration limit

TABLE 7

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
SECOND SOIL VERIFICATION SAMPLE RESULTS
AREA C

Sample I.D	Date	Acetone (ppm)	Ethylbenzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloroethylene[2] (ppm)	1,1,1-Trichloroethane (ppm)	Xylene (ppm)
ERS1-S-C27-G[3]	12/20/94	-[4]	-	-	-	-	-	-
ERS1-S-C28-G	12/20/94	-	-	-	-	-	-	-
ERS1-S-C29-G	12/20/94	-	-	-	-	0.104J[5]	-	-
EPA CLEANUP STANDARD		500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "G" = Grab Soil Sample
4. "-" = Non-Detect
5. "J" = Estimate

TABLE 8

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
SOIL STOCKPILE TCLP RESULTS
SAMPLE (ERS1-S-SP-01C[1]) COLLECTED ON DECEMBER 19, 1994

COMPOUND	RESULTS (mg/l)
Benzene	-[2]
Carbon Tetrachloride	-
Chlorobenzene	-
Chloroform	-
1,4-Dichlorobenzene	-
1,2-Dichloroethane	-
1,1-Dichloroethene	-
Methyl Ethyl Ketone	-
Tetrachloroethene	0.138J[3]
Trichloroethene	0.267
Vinyl Chloride	-

1. Composit soil sample
2. "-" Non-detect
3. "J" Analytical results are estimated

TABLE 9

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
CONCRETE STOCKPILE (AREA F) TCLP RESULTS
SAMPLE COLLECTED ON DECEMBER 19, 1994

Sample No. ERS1-S-Concrete-01C[1]	
Volatile Compounds	**Results (mg/l)**
Benzene	-[2]
Carbon Tetrachloride	-
Chlorobenzene	-
Chloroform	-
1,4-Dichlorobenzene	-
1,2-Dichloroethane	-
1,1-Dichloroethene	-
Methyl Ethyl Ketone	-
Tetrachloroethene	-
Trichloroethene	-
Vinyl Chloride	-
Semi-Volatile Compounds	**Results (mg/l)**
2,4-Dinitrotoluene	-
Hexachlorobenzene	-
Hexachlorobutadiene	-
Hexachloroethane	-
2-Methylphenol	-
Nitrobenzene	-
Pentachlorophenol	-
2,4,5-Trichlorophenol	-
2,4,6-Trichlorophenol	-
Pyridine	-

1. Composit concrete sample
2. "-" Non-detect

TABLE 10

ENTERPRISE RECOVERY SYSTEM - BYHALIA, MISSISSIPPI
SOIL SAMPLE RESULTS
AREA F

Sample I.D	Sample Depth (ft)	Date	Acetone (ppm)	Ethylbenzene (ppm)	MEK[1] (ppm)	Toluene (ppm)	Trichloroethylene[2] (ppm)	1,1,1-Trichloroethane (ppm)	Xylene (ppm)
ERS1-S-TF10-G[3]	0.5-1.0	12/18/94	-[4]	19.2	2.55J[5]	12.5	0.87	16.6	23.3
ERS1-S-TF11-G	0.5-1.0	12/18/94	-	1.05	-	1.58	0.79	24.3	7.15
ERS1-S-TF12-G	3.0	12/19/94	-	-	-	-	5.04	27.7	-
ERS1-S-TF13-G	6.0	12/19/94	-	-	-	1.44J	36.4	296E[5]	-
ERS1-S-TF14-G	9.0	12/19/94	-	-	-	.800	3.51	3.51	-
ERS1-S-TF15-G	.12.0	12/19/94	-	-	1.49J	.185J	3.71	26.2E	.151J
ERS1-S-TF16-G	15.0	12/19/94	-	-	-	-	-	-	-
ERS1-S-TF17-G	0.5-1.0	12/19/94	-	-	-	-	.211J	-	-
ERS1-S-TF18-G	0.5-1.0	12/19/94	-	-	-	-	.144J	.779	-
ERS1-S-TF19-G	0.5-1.0	12/19/94	-	-	-	-	-	.241J	-
ERS1-S-TF20-G	0.5-1.0	12/19/94	-	-	-	-	.314J	1.76	-
ERS1-S-TF21-G	0.5-1.0	12/19/94	-	-	-	-	.510J	1.32	-
ERS1-S-TF22-G	0.5-1.0	12/19/94	-	-	-	-	.496J	.769	-
EPA CLEANUP STANDARD			500	500	500	500	50	250	500

1. MEK = Methyl Ethyl Ketone
2. Trichloroethylene (Trichloroethene)
3. "G" = Grab Soil Sample
4. "-" = Non-Detect
5. "J" = Estimate
6. "E" = Concentration exceeds the established calibration limit

TABLE 11

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
AREA C GEO-PROBE SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON MARCH 10, 1995

Sample No.	ERS-S-GP1	ERS-S-GP2	ERS-S-GP3	ERS-S-GP4	AOC Action Limits
Units	mg/kg[1]	mg/kg	mg/kg	mg/kg	mg/kg
Sample Depth	(10-12 ft.)	(10-12 ft.)	(4-6 ft.)	(4-6 ft.)	
ANALYTES					
Acetone	-[2]	-	-	-	500
Ethylbenzene	-	-	-	-	500
MEK[3]	-	-	-	-	500
Toluene	-	-	-	-	500
1,1,1-TCA[4]	0.160	-	0.26	-	250
TCE[5]	1.4	1.2	0.39	0.63	50
Xylenes (Total)	-	-	-	-	500

1 mg/kg is equivalent to parts per million (ppm)
2 "-" Below Reporting Limit
3 MEK = Methyl ethyl ketone
4 1,1,1-TCA = 1,1,1-Trichloroethane
5 TCE = Trichloroethlyene

TABLE 12

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
AREA C WATER RESULTS
WATER SAMPLE COLLECTED ON MARCH 9, 1995

ANALYTES	RESULTS mg/l[1]	REGULATORY LEVEL mg/l
TCLP[2] Volatile Organics		
Benzene	-[3]	0.5
Carbon Tetrachloride	-	0.5
Chlorobenzene	-	100.0
Chloroform	-	6.0
1,4-Dichlorobenzene	-	7.5
1,2-Dichloroethane	-	0.5
1,1-Dichloroethene	-	0.7
Methyl Ethyl Ketone	-	200.0
Tetrachloroethene	-	0.7
Trichloroethene	0.395	0.5
Vinyl Chloride	-	0.2
TCLP Semi-Volatiles		
2,4-Dinitrotoluene	-	0.13
Hexachlorobenzene	-	0.13
Hexachlorobutadiene	-	0.5
Hexachloroethane	-	3.0
2-Methylphenol	-	200.0
3&4-Methylphenol	-	200.0
Nitrobenzene	-	2.0
Pentachlorophenol	-	100.0
2,4,5-Trichlorophenol	-	400.0
2,4,6-Trichlorophenol	-	2.0
Pyridine	-	5.0
Metals		
Arsenic	<0.5	5.0
Barium	0.370	100.0
Cadmium	<0.04	1.0
Chromium	<0.07	5.0
Lead	<0.45	5.0
Mercury	<0.001	0.2
Selenium	<0.75	1.0

1 mg/l is equivalent to parts per million (ppm)
2 TCLP - Toxicity Characteristic Leaching Procedure
3 "-" Non-detect

TABLE 12

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
AREA C WATER RESULTS
WATER SAMPLE COLLECTED ON MARCH 9, 1995

ANALYTES	RESULTS mg/l[1]	REGULATORY LEVEL mg/l
Silver	<0.07	5.0
Reactive Cyanide	<0.005	
Reactive Sulfide	<0.005	
Ignitability/Flashpoint	>96(°C)	
pH	6.7 (SU)	

1 mg/l is equivalent to parts per million (ppm)
2 TCLP - Toxicity Characteristic Leaching Procedure
3 "-" Non-detect

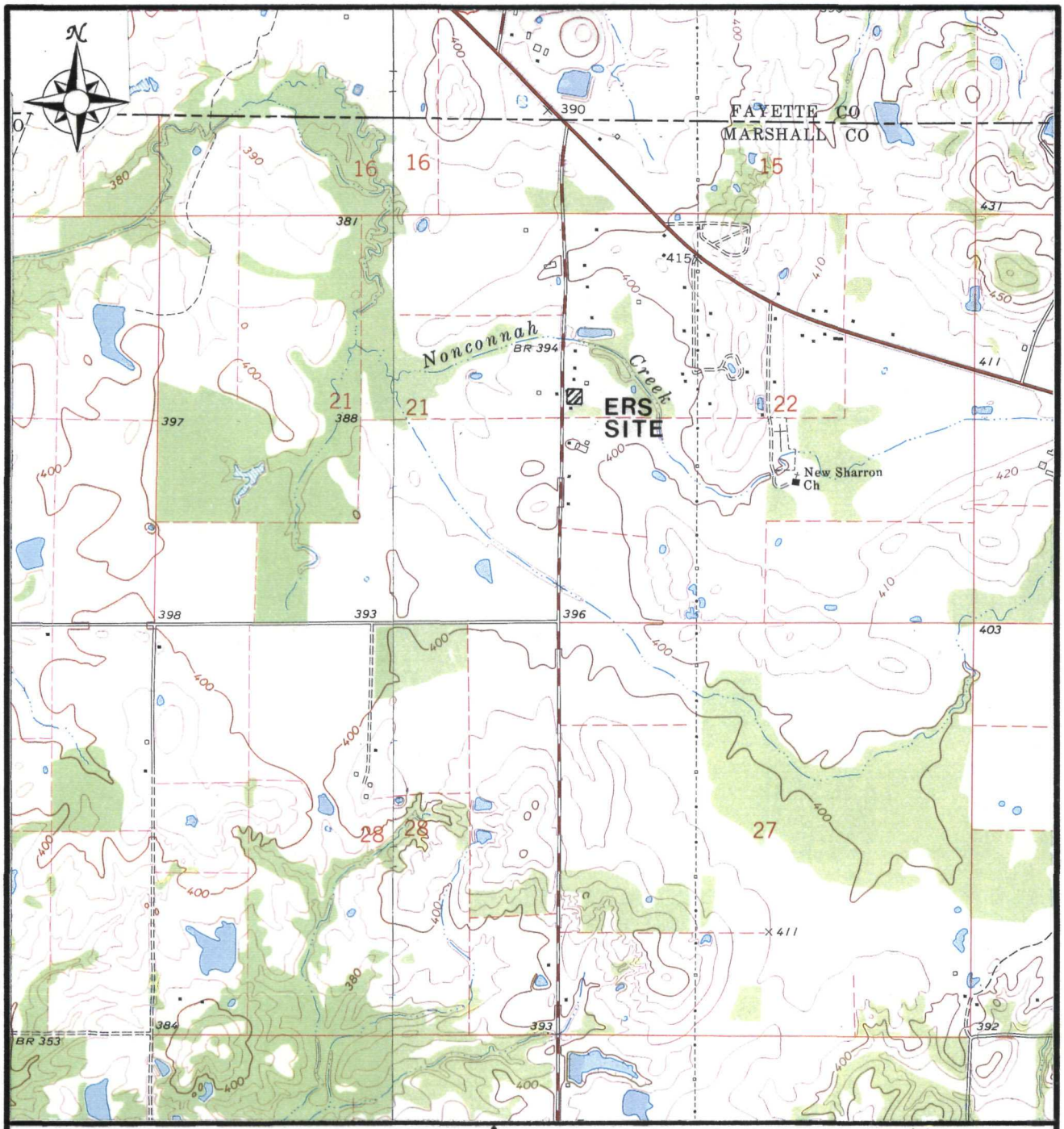
TABLE 13

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
BACKFILL SOIL SAMPLE RESULTS

Sample ID	Date	Acetone (ppm)	Ethylbenzene (ppm)	MEK (ppm)	Toluene (ppm)	Trichloroethylene (ppm)	1,1,1-Trichloroethane (ppm)	Xylene (ppm)
ERS-S-BF-01C	12/19/94	ND[1]	ND	ND	ND	ND	ND	ND
EPA Cleanup Standard		500	500	500	500	50	250	500

1. "ND" = Non-Detect

FIGURES



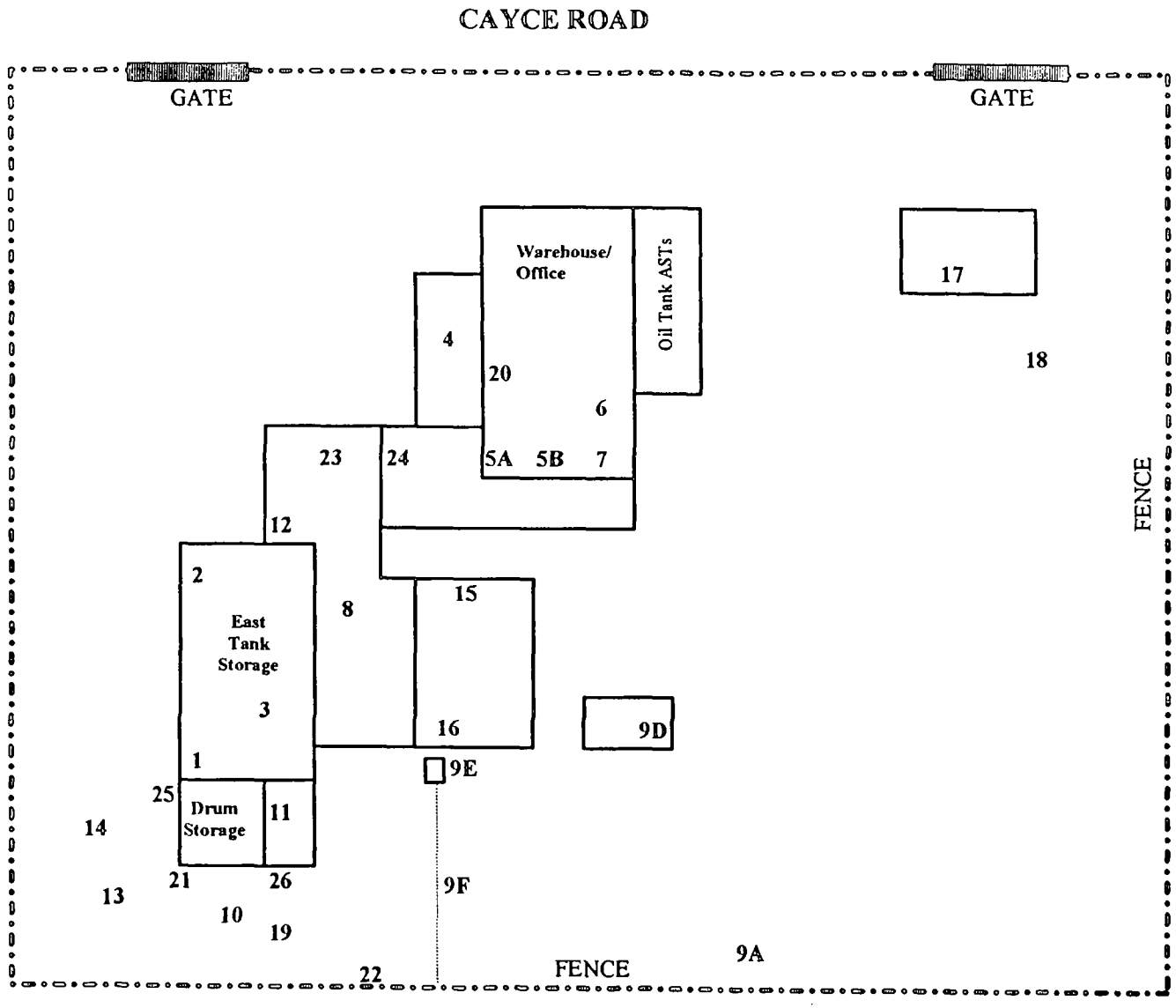
ENTERPRISE RECOVERY SYSTEMS
Route 5, Box 287
Cayce Road
Byhalia, Mississippi

MAP SOURCE
USGS 7.5 Minute Quadrangle
Maps:
Mt. Pleasant, Miss - Tenn 1971
Byhalia NW, Miss - Tenn 1971

SITE LOCATION MAP

WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologist,
and Environmental Scientists
Jackson, Mississippi

DR. BY: ACE	SCALE: 1"=2,000'	PROJ. NO: 93B477
CHK. BY: ACE	DATE: 4/21/95	FIG. NO: 1



NOTE: 9b is located underground
9c is located throughout the facility

LEGEND

1 East Area Waste Solvent Tanks
- a) Tank #7
- b) Tank #9
- c) Tank #10

2 East Area Wastewater Tanks
- a: Tank #3
- b) Tank #4
- c) Tank #5

3 East Area Wastewater Tanks
- a) Tank #6
- b) Tank #16

4 Distillation Unit #1

5 Wastewater Distillation Units #2 and #3
- a) Still #2
- b) Still #3

6 Thin Film Evaporator

7 Former Distillation Unit

8 Unloading Area

9 Runoff System
- a) Clay Dike
- b) Runoff Ditches
- c) Runoff Pipes
- d) Retention Basin
- e) Oil/Water Separator
- f) Outfall Ditch

10 Former Empty Drum Storage Area

11 Present Empty Drum Storage Area

12 Truck Tankers

13 Van Trailers

14 Dump Trailer

15 Former Sludge Tank

16 Waste Container Storage Area

17 Concrete Pad

18 North Tank Scrap Area

19 East Scrap Metal Area

20 Portable Pumps

21 Drum Storage Area

22 East Grassy Area

23 Portable Tanks

24 East Area Waste Oil Tank

25 Dispenser

26 Drum Crusher

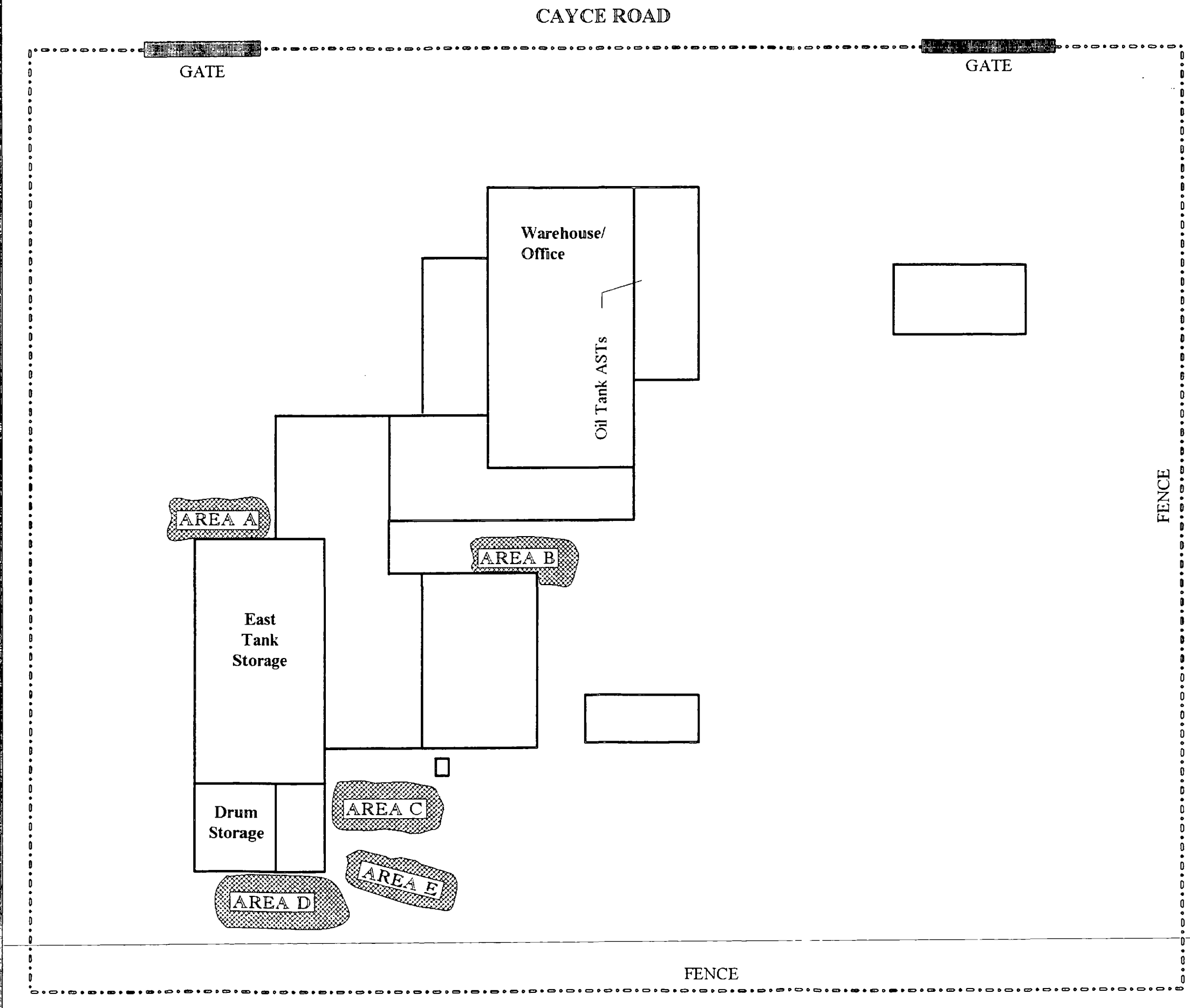
Enterprise Recovery Systems, Inc.
Byhalia, Mississippi

Woodward-Clyde Consultants
Engineering and sciences applied to the Earth and its environment
Jackson, Mississippi

SCALE:	DRW. BY:	DATE:	PROJECT
1" = 50'	ACE	9/27/95	93B477
	CHK. BY: ACE	DATE: 10/1/95	

AREA LAYOUT DURING FACILITY OPERATIONS

FIGURE 2



LEGEND

EPA Designated Areas of Concern

30' 15' 0 30'

Enterprise Recovery Systems, Inc.
Byhalia, Mississippi

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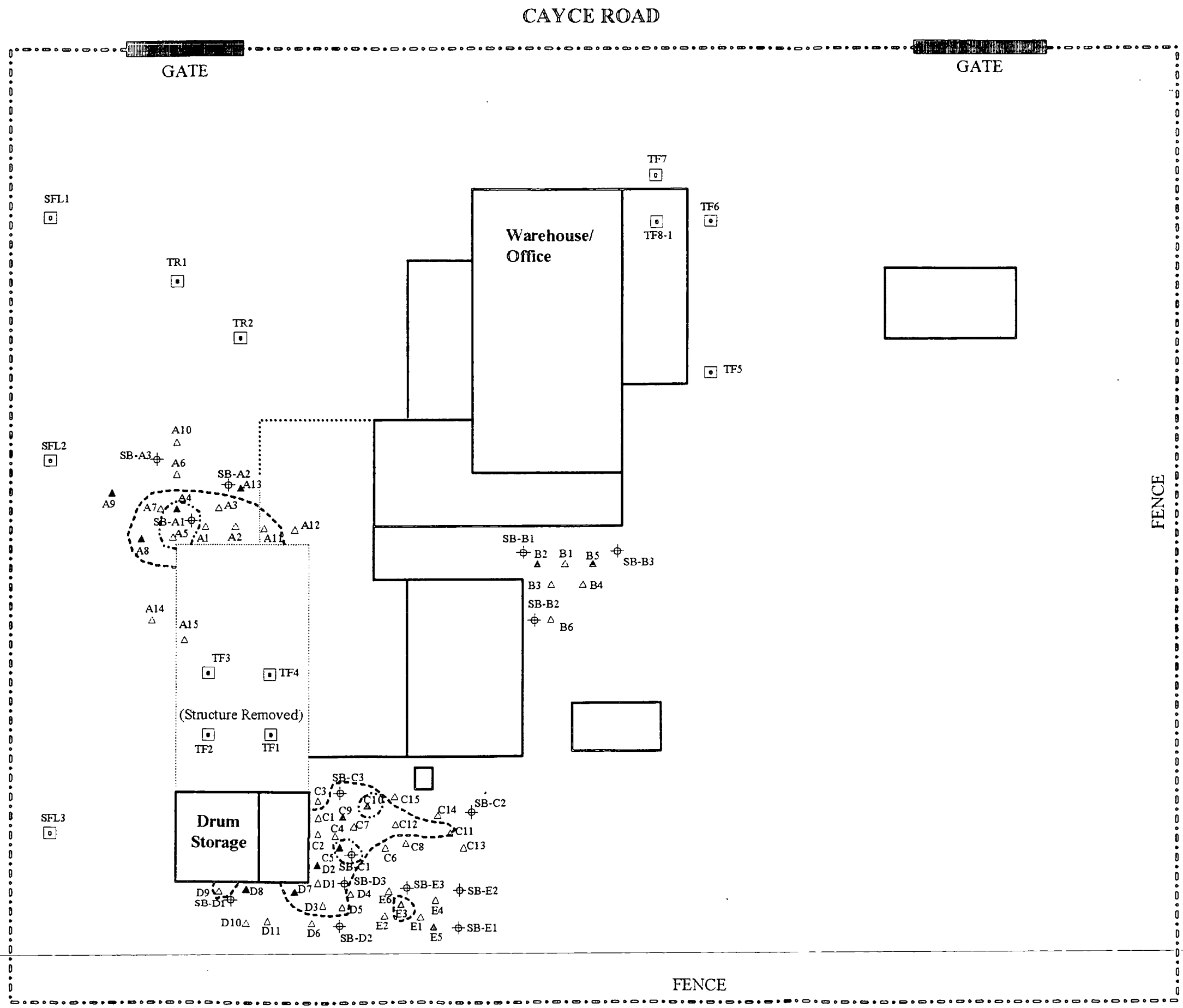
Engineering and sciences applied to the Earth and its environment
Jackson, Mississippi

SCALE:	DRW. BY:	DATE:	PROJECT
1" = 30'	ACE	10/25/95	93B477
	CHK. BY: ACE	DATE: 10/25/95	

EPA DESIGNATED AREAS OF CONCERN

FIGURE 3



LEGEND

- △ Surficial Soil Sample Headspace Only
- ▲ Surficial Soil Sample Headspace and VOC Analysis
- ⊕ Soil Boring
- ▣ EPA Headspace Sample
- ------ OVA Readings > 100 ppm
- -·-·-·- OVA Readings > 1,000 ppm

30' 15' 0 30'

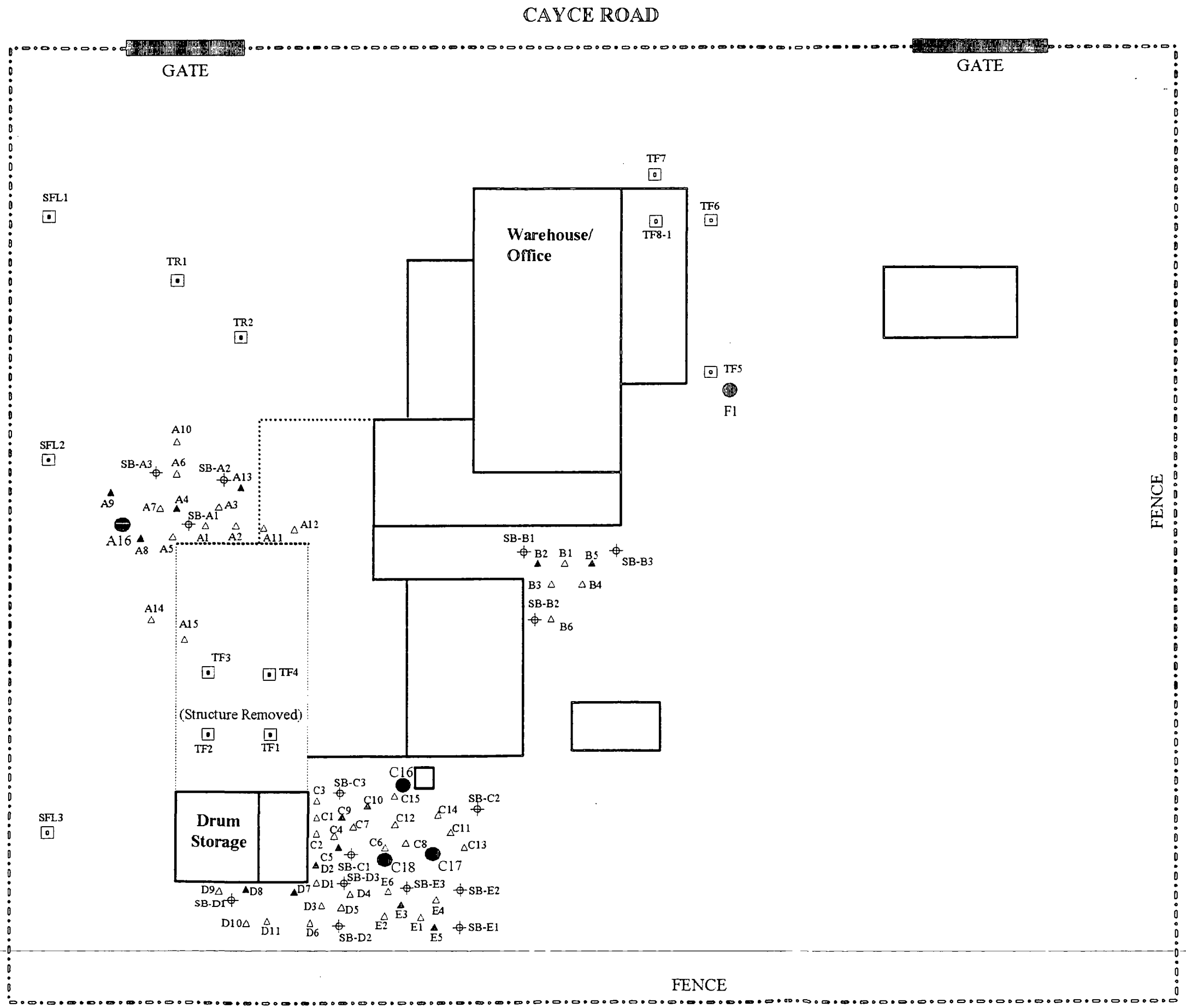
Enterprise Recovery Systems, Inc.
Byhalia, Mississippi

Woodward-Clyde Consultants
Engineering and sciences applied to the Earth and its environment
Jackson, Mississippi

SCALE:	DRW. BY:	DATE:	PROJECT
AS SHOWN	ACE	10/25/95	93B477
	CHK. BY: ACE	DATE: 10/25/95	

SURFICIAL SOIL OVA READINGS (ppm)
MARCH 1 - 6, 1994

FIGURE 5



LEGEND

- △ Surficial Soil Sample Headspace Only
- ▲ Surficial Soil Sample Headspace and VOC Analysis
- ⊕ Soil Boring
- ▣ EPA Headspace Sample
- ● Soil Sample Location For SVOC and RCRA Metal Analysis

30' 15' 0 30'

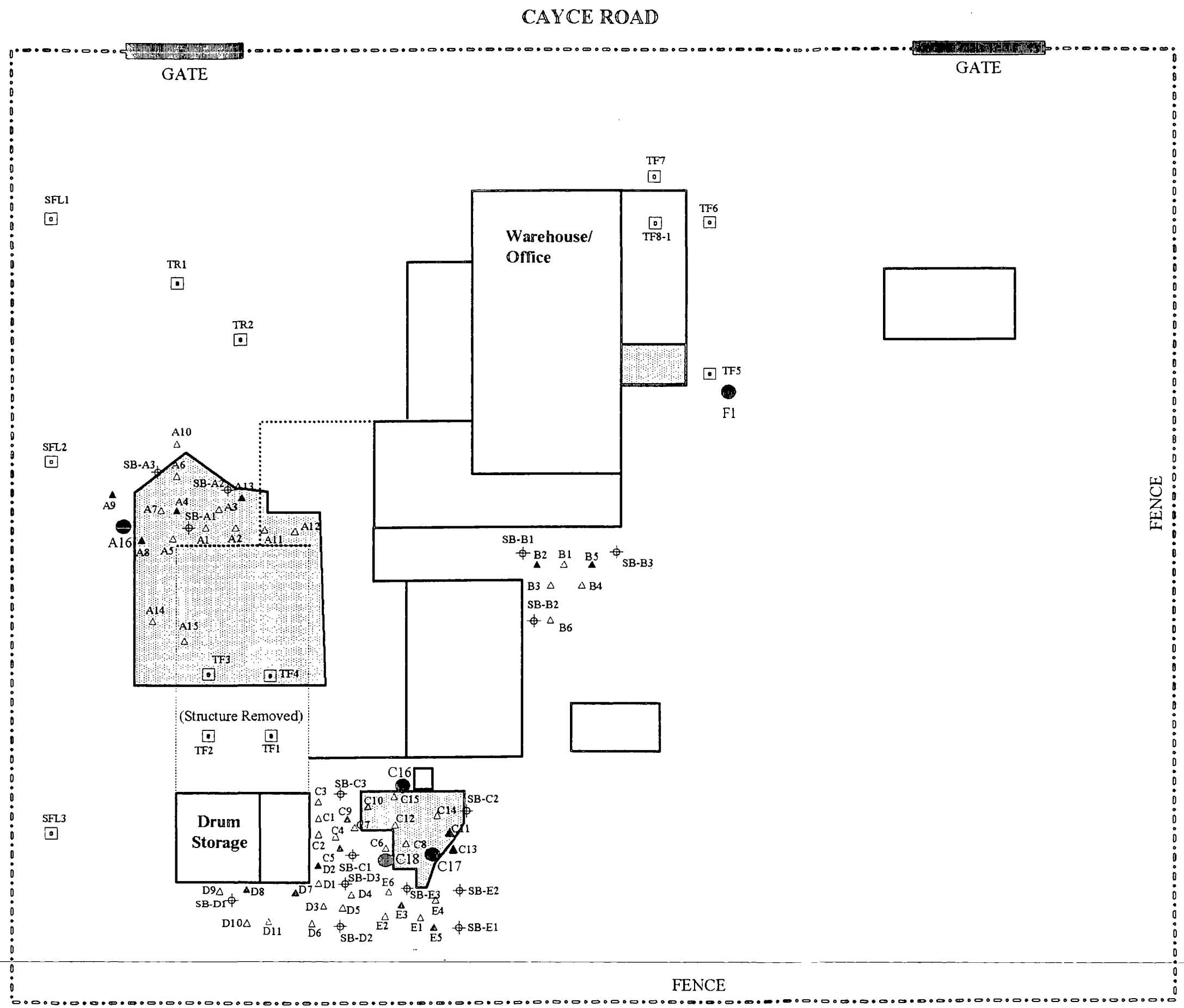
Enterprise Recovery Systems, Inc.
Byhalia, Mississippi

Woodward-Clyde Consultants
Engineering and sciences applied to the Earth and its environment
Jackson, Mississippi

SCALE:	DRW. BY:	DATE:	PROJECT
AS SHOWN	ACE	10/25/95	93B477
	CHK. BY: ACE	DATE: 10/25/95	

SVOC and RCRA Metal Soil Sample Locations
November 3, 1994

FIGURE 6



LEGEND

- △ Surficial Soil Sample Headspace Only
- ▲ Surficial Soil Sample Headspace and VOC Analysis
- ⊕ Soil Boring
- ▣ EPA Headspace Sample
- ● Soil Sample Location For SVOC and RCRA Metal Analysis
- ▨ Soil Removal Area

30' 15' 0 30'

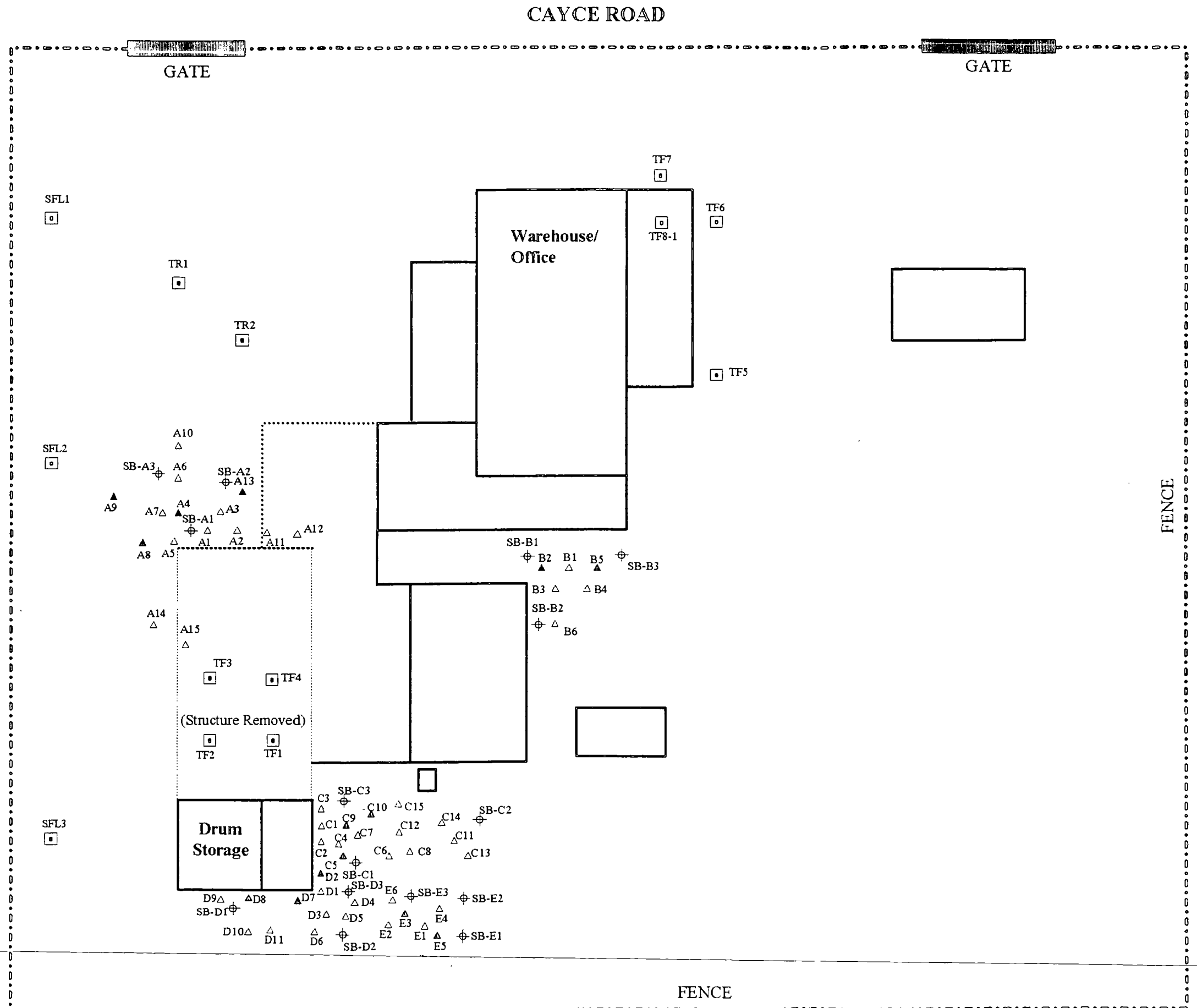
Enterprise Recovery Systems, Inc.
Byhalia, Mississippi

Woodward-Clyde Consultants
Engineering and sciences applied to the Earth and its environment
Jackson, Mississippi

SCALE:	DRW. BY:	DATE:	PROJECT
AS SHOWN	ACE	10/25/95	93B477
	CHK. BY: ACE	DATE: 10/25/95	

AREAL EXTENT OF SOIL EXCAVATION
December 13-19, 1994

FIGURE 7



LEGEND

- △ Surficial Soil Sample Headspace Only
- ▲ Surficial Soil Sample Headspace and VOC Analysis
- ⊕ Soil Boring
- ▫ EPA Headspace Sample

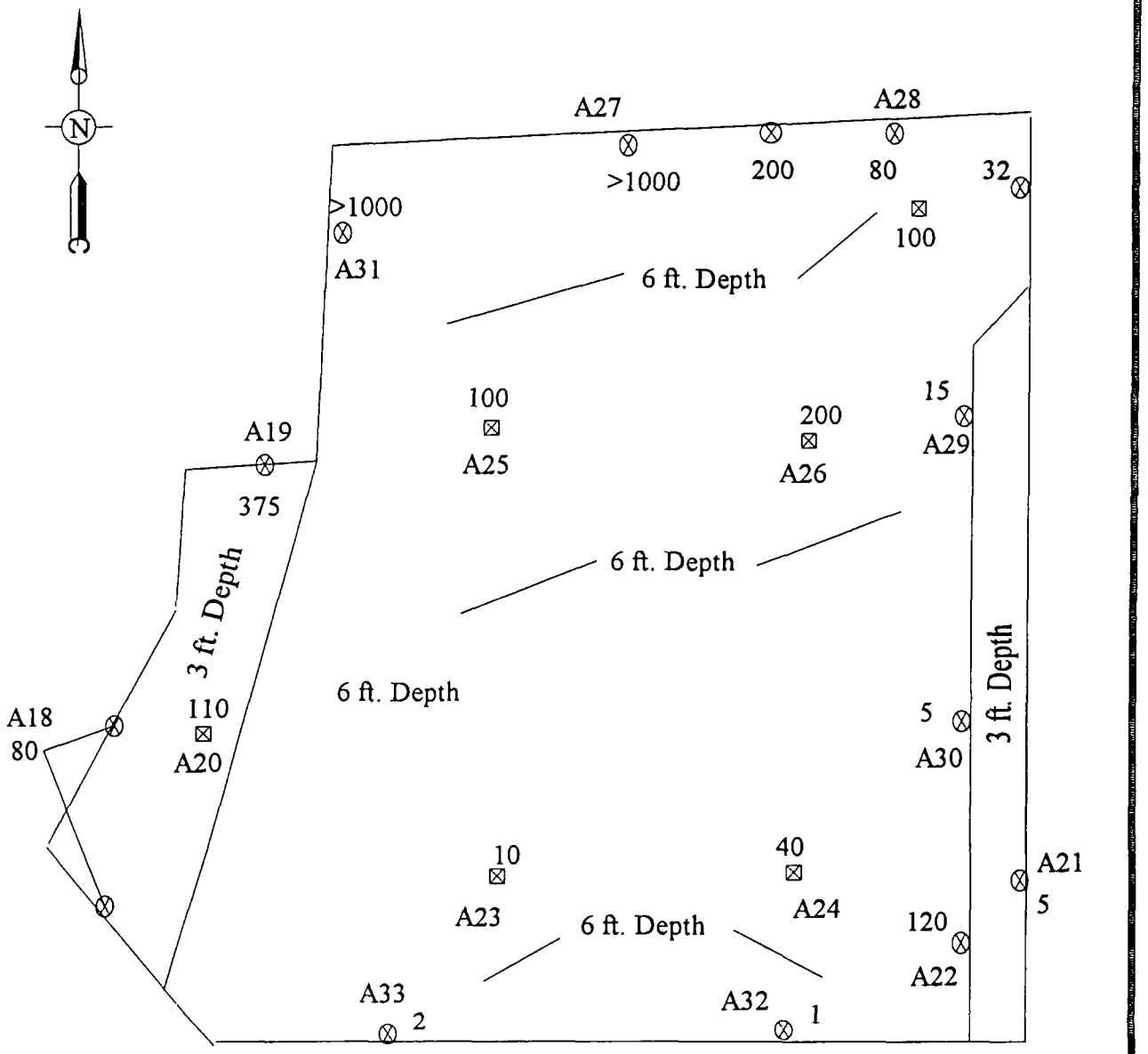
Enterprise Recovery Systems, Inc.
Byhalia, Mississippi

Woodward-Clyde Consultants
Engineering and sciences applied to the Earth and its environment
Jackson, Mississippi

SCALE:	DRW. BY: ACE	DATE: 10/25/95	PROJECT
AS SHOWN	CHK. BY: ACE	DATE: 10/25/95	93B477

SOIL ASSESSMENT SAMPLE LOCATIONS MARCH 1 - 6, 1994

FIGURE 4



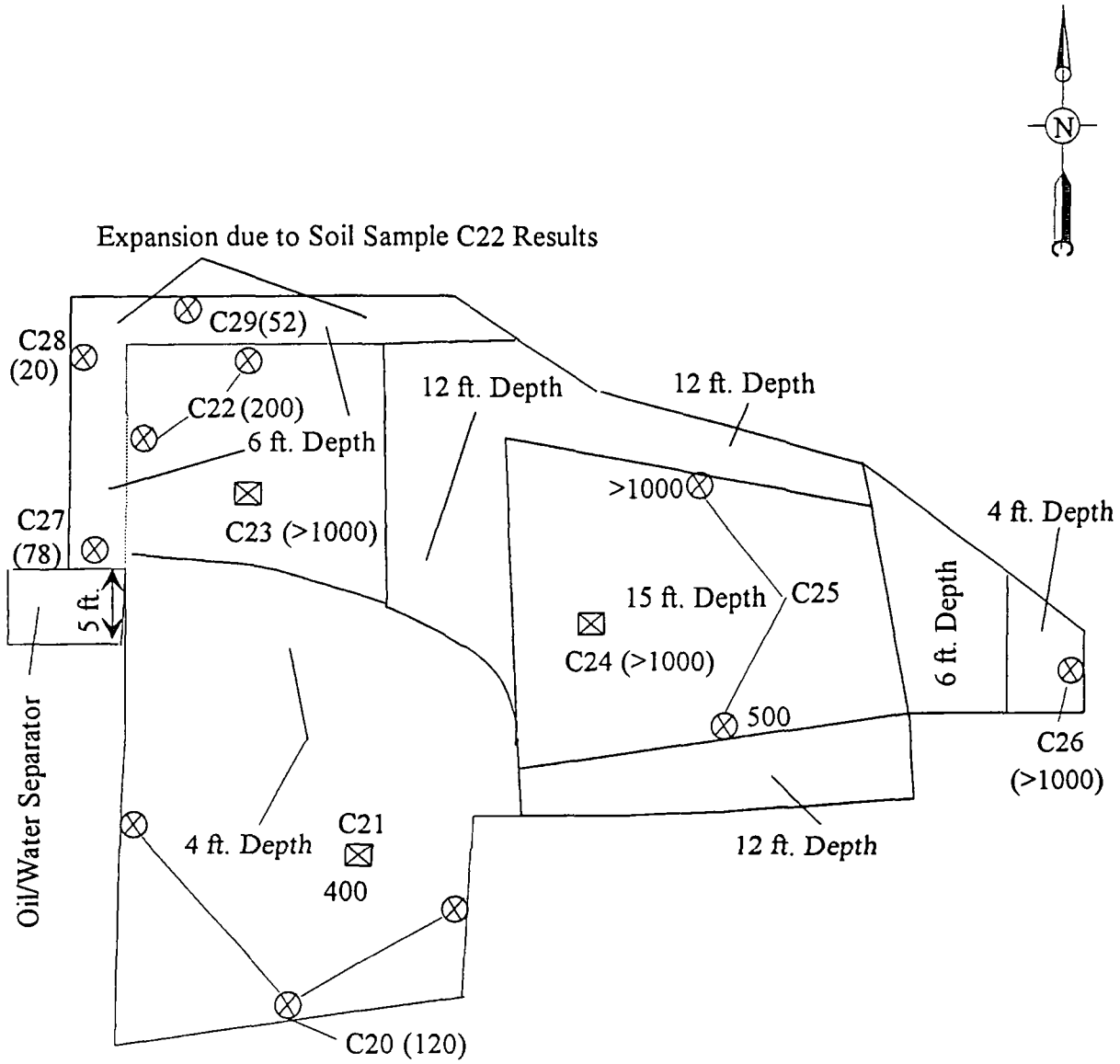
LEGEND

⊗ 980	OVA Wall Sample Location and Concentration (ppm)
⊠ 100	OVA Floor Sample Location and Concentration (ppm)
A23	Soil Sample Identification Number

AREA A
OVA READINGS AND SOIL VERIFICATION SAMPLE LOCATIONS
December 1994

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

DR. BY: ACE	SCALE: 1" = 15'	PROJ. NO: 93B477
CHK. BY: ACE	DATE: 1/7/95	FIG. NO: 8



LEGEND

⊗ 980	OVA Wall Sample Location and Concentration (ppm)
⊠ 100	OVA Floor Sample Location and Concentration (ppm)
C22	Soil Sample Identification Number

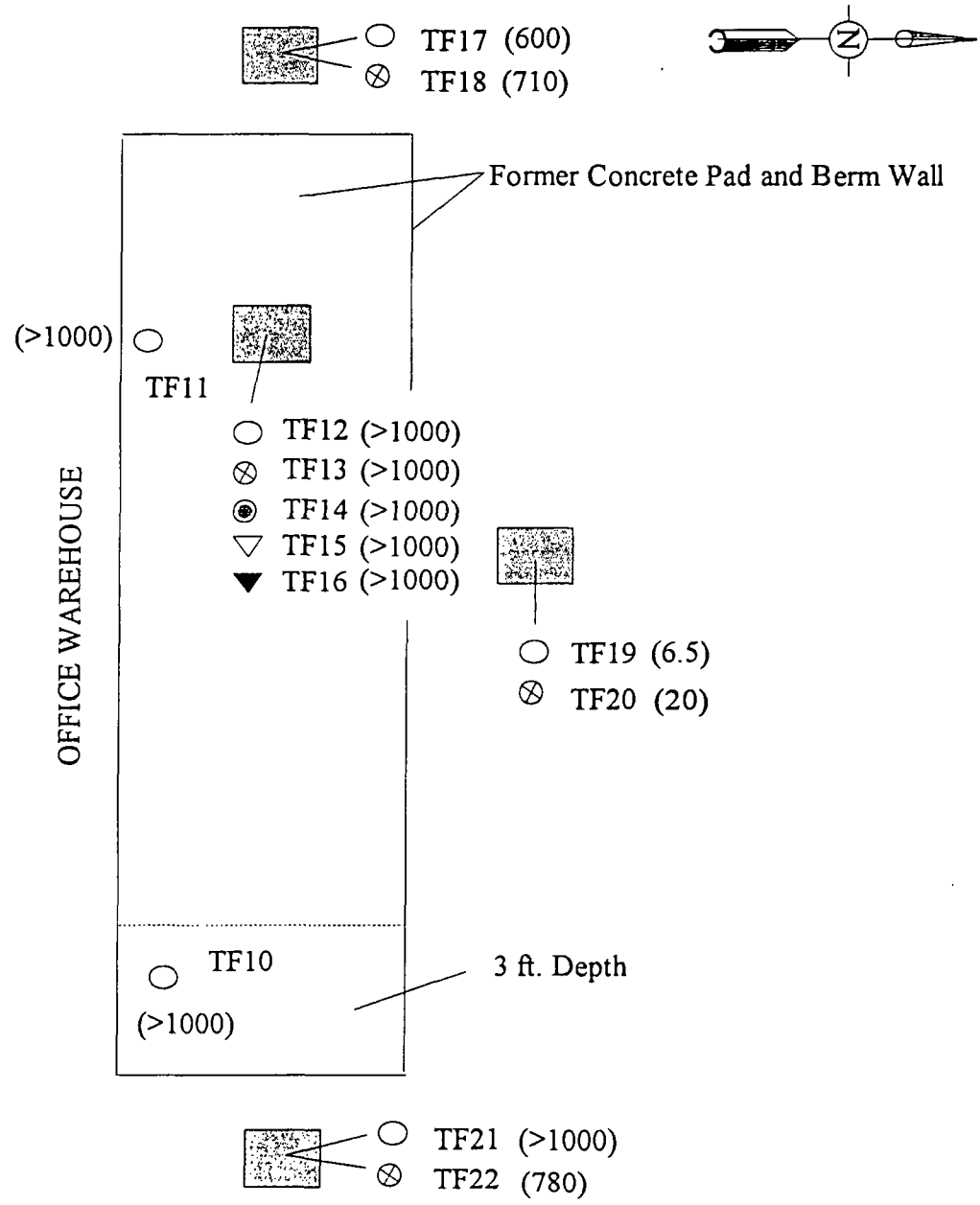
AREA C

OVA READINGS AND SOIL VERIFICATION SAMPLE LOCATIONS

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

DR. BY: ACE	SCALE: 1" = 7'	PROJ. NO: 93B477
CHK. BY: ACE	DATE: 1/7/95	FIG. NO: 9

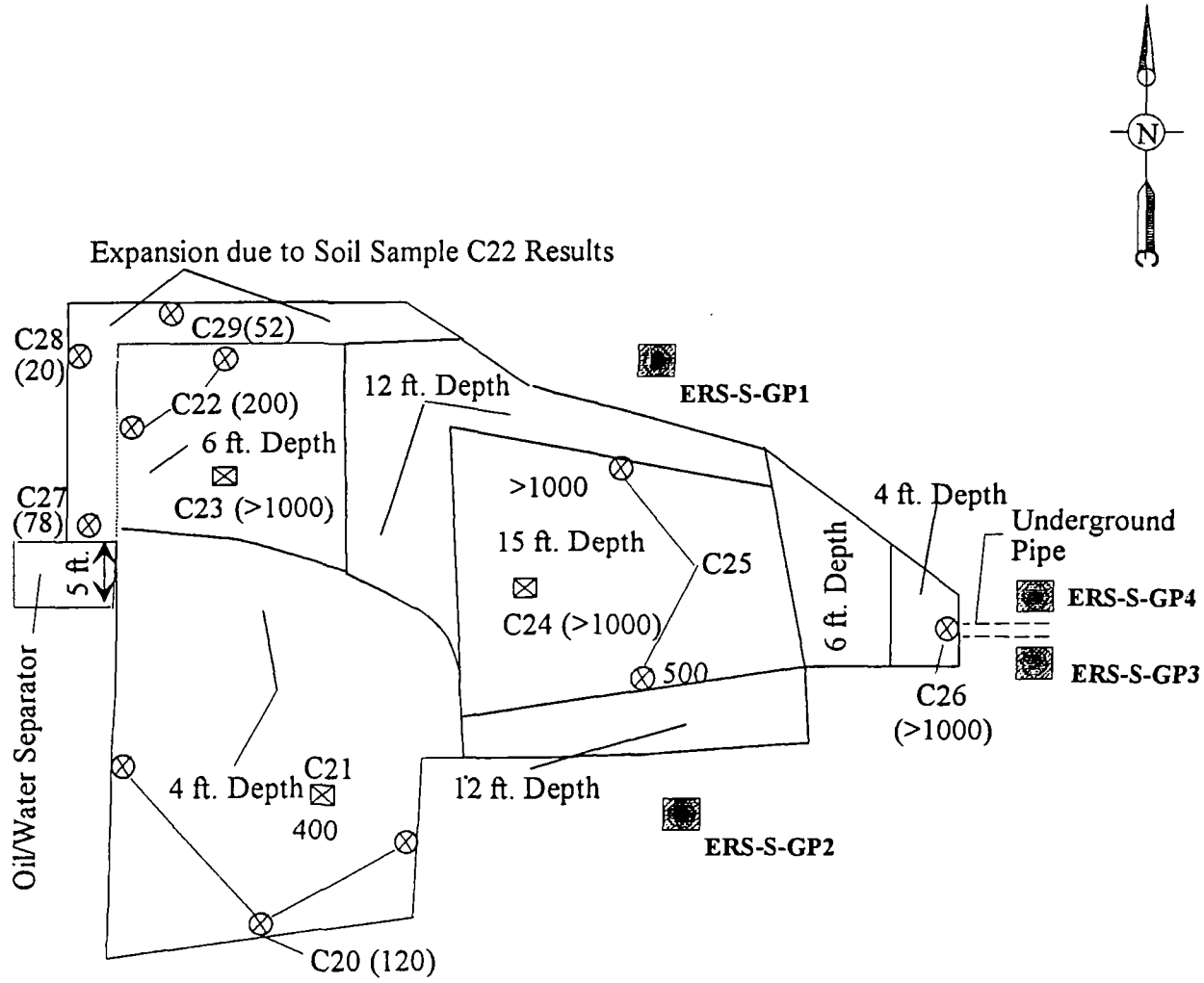


LEGEND

- TF12 (>1000) 3 Foot Sample Depth, Sample I.D., OVA Reading
- TF13 (>1000) 6 Foot Sample Depth, Sample I.D., OVA Reading
- TF14 (>1000) 9 Foot Sample Depth, Sample I.D., OVA Reading
- TF15 (>1000) 12 Foot Sample Depth, Sample I.D., OVA Reading
- TF16 (>1000) 15 Foot Sample Depth, Sample I.D., OVA Reading

Sample Pit

AREA F OVA READINGS AND SOIL SAMPLE LOCATIONS	WOODWARD-CLYDE CONSULTANTS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS		
	DR. BY: ACE	SCALE: 1" = 8'	PROJ. NO: 93B477
	CHK. BY: ACE	DATE: 1/7/95	FIG. NO: 10



LEGEND

⊗ 980	OVA Wall Sample Location and Concentration (ppm)
⊠ 100	OVA Floor Sample Location and Concentration (ppm)
C22	Soil Sample Identification Number
■	Geo Probe Soil Sample Locations Samples Collected on March 10, 1995

AREA C

GEO PROBE SOIL SAMPLE LOCATIONS

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

DR. BY: ACE	SCALE: 1" = 7'	PROJ. NO: 93B477
CHK. BY: ACE	DATE: 3/18/95	FIG. NO: 11

APPENDIX A

ADMINISTRATIVE ORDER ON CONSENT FOR REMOVAL ACTION

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

DEC 14 1993

4WD-WPB

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Enterprise Recovery Systems Site Group
c/o Eugene E. Smary, Esquire
Warner, Norcross & Judd
900 Old Kent Building
111 Lyon Street, N.W.
Grand Rapids, Michigan 49503-2489

Dear Mr. Smary:

The United States Environmental Protection Agency ("EPA") hereby notifies the Respondents to the Administrative Order on Consent for Removal Action ("AOC"), Docket No. 93-43-C, that the thirty day public comment period required by Section 122(i) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), 42 U.S.C. § 9622(i), regarding reimbursement of EPA past costs incurred at the Enterprise Recovery Systems Site located in Byhalia, Mississippi, ended on November 29, 1993. EPA did not receive any comments that disclose facts or considerations which indicate that Section VII of the AOC, Reimbursement of Costs, is inappropriate, improper or inadequate.

The effective date of Section VII of the AOC (an executed copy of which is enclosed) is the date of this written notice stating that the public comment period has expired. Please remit payment of $115,370.37 to the "Hazardous Substances Superfund" by certified or cashier's check within sixty (60) days of your receipt of this notice to the address specified in the AOC.

If you have any questions concerning the above matter, please contact Greg Armstrong, of my staff, at (404) 347-5059 or Elizabeth Davis, Assistant Regional Counsel, at (404) 347-2641 ext. 2283.

Sincerely yours,

Richard D. Green, Deputy

Joseph R. Franzmathes
Director
Waste Management Division

Enclosure

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION IV

IN THE MATTER OF: Enterprise Recovery Systems, Inc. Byhalia, Marshall County, Mississippi, Respondents.	ADMINISTRATIVE ORDER ON CONSENT FOR REMOVAL ACTION Proceeding Under Sections 104, 106(a), 107 and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, 42 U.S.C. §§ 9604, 9606(a), 9607 and 9622 Docket No.: 93-43-C

I. JURISDICTION AND GENERAL PROVISIONS

This Administrative Order on Consent (Order) is entered into voluntarily by the EPA and Respondents listed in Attachment A (Respondents). This Order provides for the performance of the removal action by Respondents and the reimbursement of response costs incurred by the United States in connection with the property located at Route 5, Box 287 Cayce Road, Byhalia, Marshall County, Mississippi (the Site). This Order requires Respondents to conduct the removal action described herein to abate an imminent and substantial endangerment to the public health, welfare or the environment that may be presented by the actual or threatened release of hazardous substances at or from the Site.

This Order is issued pursuant to the authority vested in the President of the United States by sections 104, 106(a), 107 and 122 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. §§ 9604, 9606(a), 9607 and 9622, as amended (CERCLA), and delegated to the Administrator of the United States Environmental Protection Agency (EPA) by Executive Order No. 12580, January 23, 1987, 52 Federal Register 2923, and further delegated to the EPA Regional Administrators by EPA Delegation Nos. 14-14-A and 14-14-C and 14-14-D, and further to the Director, Waste Management Division.

EPA has notified the State of Mississippi of this action pursuant to section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

Respondents' participation in this Order shall not constitute or be construed as an admission of liability or of EPA's findings or

determinations contained in this Order except in a proceeding to enforce the terms of this Order. Respondents agree to comply with and be bound by the terms of this Order. Respondents further agree that they will not contest the basis or validity of this Order or its terms.

II. PARTIES BOUND

This Order applies to and is binding upon EPA, and upon Respondents and Respondents' heirs, successors and assigns. Any change in ownership or corporate status of Respondents including, but not limited to, any transfer of assets or real or personal property shall not alter Respondents' responsibilities under this Order. Respondents are jointly and severally liable for carrying out all activities required by this Order. Compliance or noncompliance by one or more Respondent with any provision of this Order shall not excuse or justify noncompliance by any other Respondents.

Respondents shall ensure that their contractors, subcontractors, and representatives receive a copy of this Order and comply with this Order. Respondents shall be responsible for any noncompliance with this Order.

III. FINDINGS OF FACT

For the purpose of this Order, EPA makes the following Findings of Fact:

1. The Site is situated on an eight acre wooded parcel. A single story sheet metal building houses an office, warehouse and processing area. The Site also includes two distinct storage tank areas, a small retention pond, and several outdoor drum storage areas. Access to the building is controlled by locked doors and windows and the property is fenced.

2. The Site is located between Byhalia, Mississippi and Collierville, Tennessee on rural Cayce Road between U.S. Highways 72 and 78. Although the land surrounding the Site is primarily farm and fields with a small residential population, several homes are located within 200 yards of the Site. Nonconnah Creek headwaters flow alongside the northern and eastern boundaries of the Site, and the Site is within the recharge area for the Kosciusko Aquifer.

3. Enterprise Recovery Systems, Inc., facility ID number MSD000693176, (Enterprise) is the owner and operator of an abandoned solvent recycling facility which operated on the Site. Enterprise was in the solvent recycling business and operated under a permit issued in accordance with the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 et seq.,

as amended (RCRA). Enterprise conducted related business activities as early as 1978. Enterprise ceased operations in October 1991 when its insurer canceled insurance coverage after discovering significant soil and groundwater contamination at the Site.

4. The Mississippi Department of Environmental Quality (MDEQ) conducted a facility inspection on July 23, 1991 and subsequently issued an order to Enterprise in December 1991. The order required Enterprise to provide drinking water to affected residents, submit a work plan to assess and remediate soil and groundwater contamination, implement the work plan, submit a closure plan and schedule, and to cease all operations. Enterprise appealed the MDEQ order, and the appeal is currently pending.

5. MDEQ conducted further inspections and assessments at the Site and verified the existence of significant soil and groundwater contamination. The hazardous substances identified include 1,1,1-trichloroethane, trichloroethylene, acetone, methylene chloride, methyl ethyl ketone, perchloroethylene, toluene, xylene, ethyl acetate, blended solvents and mineral spirits.

6. In August and September 1992, EPA conducted a removal assessment of the Site, hazard category testing and residential well sampling. Results indicate that hazardous substances were staged in drums and tanks and in laboratory containers in the building. Numerous drums show signs of past leakage and ongoing deterioration, and there are significant areas of staining on the concrete surrounding the two drum storage areas. The storage tanks show evidence of pitting and scaling corrosion and past leaks.

7. Residential well tests reveal trichloroethylene to 100 parts per billion (ppb), 1,1,1-trichloroethane to 17 ppb, and 1,1-dichloroethylene to 7.8 ppb at three private residential wells located adjacent to the Enterprise facility and on facility grounds.

8. Sampling reveals soils contamination at the Site. Contaminants of concern in the soils include: ethyl benzene, styrene, methylene chloride, toluene, trichloroethylene, xylene, acetone, methyl ethyl ketone, methyl isobutyl ketone and 1,1-dichloroethane. Levels of contamination documented include: acetone - 37,000 ppb; methyl ethyl ketone - 13,000 ppb; ethyl benzene - 13,650 ppb; toluene - 35,000 ppb; and xylene - 51,900 ppb.

9. In November 1992, EPA arranged to inventory, sample, and segregate into waste categories all tanks, drums and small quantity containers at the Site. EPA also arranged to provide a

temporary, alternative water supply to those residents with contaminated well water. Analytical results showed that drums and tanks contained hazardous substances, including: benzene, xylene, toluene, tetrachloroethylene, trichloroethylene, naphthalene, acetone, 1,1,1-trichloroethane, bis(2-ethylhexyl)phthalate, methyl ethyl ketone, ethanol, methanol, isopropyl alcohol, oils, perchloroethylene, methylene chloride, and chlorinated waste water.

10. Enterprise produced to EPA Hazardous Waste Manifests reflecting hazardous substances which Respondents sent to Enterprise while Enterprise was an operating facility.

IV. CONCLUSIONS OF LAW AND DETERMINATIONS

Based on the Findings of Fact set forth above and the Administrative Record supporting this removal action, EPA has determined that:

1. The Site is a "facility" as defined by section 101(9) of CERCLA, 42 U.S.C. § 9601(9).

2. The contaminants found at the Site, as identified in the Findings of Fact above, include "hazardous substances" as defined by section 101(14) of CERCLA, 42 U.S.C. § 9601(14).

3. Each Respondent is a "person" as defined by section 101(21) of CERCLA, 42 U.S.C. § 9601(21).

4. Each Respondent may be liable under section 107(a) of CERCLA, 42 U.S.C. § 9607(a).

5. The conditions described in the Findings of Fact above constitute an actual or threatened "release" of a hazardous substance from the facility as defined by Sections 101(22) of CERCLA, 42 U.S.C.§ 9601(22).

6. The conditions present at the Site constitute an imminent and substantial endangerment to public health, welfare, or the environment. Factors that may be considered are set forth in Section 300.415(b)(2) of the National Oil and Hazardous Substances Pollution Contingency Plan, as amended, 40 CFR Part 300 (NCP).

7. The actual or threatened release of hazardous substances from the Site may present an imminent and substantial endangerment to the public health, welfare, or the environment within the meaning of Section 106(a) of CERCLA, 42 U.S.C. § 9606(a).

8. The removal actions taken by Respondents and required by this Order are necessary to protect the public health, welfare, or the environment, and are not inconsistent with the NCP or CERCLA.

9. The removal actions taken by Respondents and required by this Order are necessary to protect the public health, welfare, or the environment, and are consistent with the NCP or CERCLA.

V. ORDER

Based upon the foregoing Findings of Fact, Conclusions of Law, Determinations, and the Administrative Record for this Site, it is hereby ordered and agreed that Respondents shall comply with the following provisions, including but not limited to all attachments to this Order, and all documents incorporated by reference into this Order, and perform the following actions:

1. Designation of Contractor, Project Coordinator, and On-Scene Coordinator

Respondents shall perform the removal action required by this Order themselves or retain contractors to perform the removal action. Respondents shall notify EPA of Respondents' qualifications or the names and qualifications of such contractors on or before September 27, 1993. Respondents shall also notify EPA of the names and qualifications of any other contractors or subcontractors retained to perform the removal action under this Order at least ten (10) days prior to commencement of such removal action. EPA retains the right to disapprove of any, or all, of the contractors and/or subcontractors retained by the Respondents, or of Respondents' choice of themselves to do the removal action. If EPA disapproves of a selected contractor or the Respondents, Respondents shall retain a different contractor or notify EPA that it will perform the removal action itself within ten (10) business days following receipt of EPA's disapproval and shall notify EPA of that contractor's name or Respondents and qualifications within ten (10) days of receipt of EPA's disapproval.

On or before September 27, 1993, the Respondents shall designate a Project Coordinator who shall be responsible for administration of all the Respondents' actions required by the Order. Respondents shall submit the designated coordinator's name, address, telephone number, and qualifications to EPA. To the greatest extent possible, the Project Coordinator shall be present on site or readily available during site work. EPA retains the right to disapprove of any Project Coordinator named by Respondents. If EPA disapproves of a selected Project Coordinator, Respondents shall retain a different Project Coordinator and shall notify EPA of that person's name, address, telephone number, and qualifications within ten (10) days following receipt of EPA's disapproval. Receipt by Respondents' Project Coordinator of any notice or communication from EPA relating to this Order shall constitute receipt by all Respondents.

EPA and Respondents shall have the right, subject to the immediately proceeding paragraph, to change their designated OSC or Project Coordinator. Respondents shall notify EPA ten (10) days before such a change is made. The initial notification may be orally made but it shall be promptly followed by a written notice.

Respondents shall direct all submissions required by this Consent Order via Certified Mail, in triplicate, to the OSC addressed as follows:

Robert N. Rosen
On-Scene Coordinator
U.S. EPA, Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Documents to be submitted to Respondents' Project Coordinator should be sent to:

[TO BE DESIGNATED]

2. Work to Be Performed

Respondents shall perform the following removal action:

(A) Arrange for a permanent alternative potable water supply to those residents listed in the Work Plan whose wells are or will be contaminated by releases at or from the Site, and conduct periodic sampling of residential wells listed in the Work Plan which may become contaminated.

(B) Arrange for the ultimate disposal and/or treatment of hazardous waste materials stored in onsite drums, tanks, and other containers in a manner satisfactory to EPA.

(C) Complete all preliminary site investigation activities required to define the nature and extent of soil contamination above the water table at the Site. This investigation shall cover, as set out in the Work Plan, all areas of the Site presently identified as contaminated by the past release of hazardous substances into the environment. In addition, Respondents shall collect and analyze an additional twenty (20) soil samples from other locations at the Site as chosen by EPA.

(D) Control the source of existing releases or threatened releases of hazardous substances into the environment from the Site in such a manner and to the extent necessary to achieve compliance with the following cleanup standards: Acetone (500 ppm); Ethylbenzene (500 ppm); Methyl Ethyl Ketone (MEK) (500 ppm); Toluene (500 ppm); Trichloroethylene (50 ppm); 1,1,1-Trichloroethane (250 ppm); Xylene (500 ppm). This may include, but not be limited to, the excavation of contaminated soil.

(E) Arrange for the ultimate disposal and/or treatment of contaminated soil and debris impacted by the release of hazardous substances into the environment from the Site in a manner satisfactory to EPA.

2.1. Work Plan and Implementation

On or before September 27, 1993, Respondents shall submit to EPA for approval a draft Work Plan for performing the Removal Activities set forth in Paragraphs V(2)(A), (B) and (C) of this Order. The draft Work Plan shall provide a description of, and an expeditious schedule for, the actions required by Paragraphs VI(2)(A), (B) and (C) of this Order.

A draft Work Plan for performing the work identified in Paragraphs V(2)(D) and (E) of this Order shall be prepared and submitted to EPA for approval within sixty (60) days after Respondents receive analytical results of soil sampling. The draft Work Plan shall provide a description of, and an expeditious schedule for, the actions required by Paragraphs V(2)(D) and (E) of this Order.

EPA may approve, disapprove, require revisions to, or modify the draft Work Plans. If EPA requires revisions, Respondents shall submit a revised draft Work Plan within thirty (30) days of receipt of EPA's notification of the required revisions. Respondents shall implement each Work Plan as finally approved in writing by EPA in accordance with the schedule approved by EPA. Once approved, or approved with modifications, each Work Plan, schedule, and any subsequent modifications shall be fully enforceable under this Order. Respondents shall notify EPA at least 48 hours prior to performing any on-site work pursuant to the EPA-approved Work Plans. Respondents shall not commence or undertake any removal action on-the site without prior EPA approval.

2.2. Health and Safety Plan

On or before September 27, 1993, Respondents shall submit for EPA review and comment a plan that ensures the protection of the

public health and safety during performance of on-site work under this Order. The plan shall be prepared in accordance with EPA's current Standard Operating Safety Guide, dated November 1984, and currently updated July 1988 and most current update. In addition, the plan shall comply with all current applicable Occupational Safety and Health Administration (OSHA) regulations found at 29 CFR Part 1910.

2.3. Quality Assurance and Sampling

All sampling and analyses performed pursuant to this Order shall conform to EPA direction, approval, and guidance regarding sampling, quality assurance/quality control (QA/QC), data validation, and chain of custody procedures. Respondents shall ensure that the laboratory used to perform the analyses participates in a QA/QC program that complies with the appropriate EPA guidance. Respondents shall follow the following documents, as appropriate, as guidance for QA/QC and sampling: "Quality Assurance/Quality Control Guidance for Removal Activities: Sampling QA/QC Plan and Data Validation Procedures," OSWER Directive Number 9360.4-01; "Environmental Response Team Standard Operating Procedures," OSWER Directive Numbers 9360.4-02 through 9360.4-08.

Upon request by EPA, Respondents shall have such a laboratory analyze samples submitted by EPA for quality-assurance monitoring. Respondents shall provide to EPA the quality assurance/quality control procedures followed by all sampling teams and laboratories performing data collection and/or analysis.

Upon request by EPA, Respondents shall allow EPA or its authorized representatives to take split and/or duplicate samples of any samples collected by Respondents while performing work under this Order. Respondents shall notify EPA not less than ten (10) days in advance of any sample collection activity. EPA shall have the right to take any additional samples that it deems necessary.

2.4. Reporting

Respondents shall submit a written progress report to EPA concerning actions undertaken pursuant to this Order every thirtieth (30th) day after the date of receipt of EPA's approval of the Work Plan until termination of this Order, unless otherwise directed by the OSC. These reports shall describe all significant developments during the preceding period, including the actions performed and any problems encountered, analytical data received during the reporting period, and the developments anticipated during the next reporting period, including a schedule of actions to be performed, anticipated problems, and planned resolutions of past or anticipated problems.

Any Respondents that own any portion of the Site shall, at least thirty (30) days prior to the conveyance of any interest in real property at the Site, give written notice that the property is subject to this Order to the transferee and written notice to EPA and the State of the proposed conveyance, including the name and address of the transferee. Respondents agree to require that their successors comply with the immediately preceding sentence and Section Three - Access to Property and Information.

2.5. Final Report

Within sixty (60) days after completion of all removal actions required under this Order, Respondents shall submit for EPA review and approval a final report summarizing the actions taken to comply with this Order. The final report shall conform with the requirements set forth in section 300.165 of the NCP entitled "OSC Reports". The final report shall include a good faith estimate of total costs or a statement of actual costs incurred in complying with the Order, a listing of quantities and types of materials removed off-site or handled on-site, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destination of those materials, a presentation of the analytical results of all sampling and analyses performed, and accompanying appendices containing all relevant documentation generated during the removal action (e.g., manifests, invoices, bills, contracts, and permits). The final report shall also include the following certification signed by a person who supervised or directed the preparation of that report:

> Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. Access to Property and Information

Respondents shall provide, and/or obtain access to the Site and any off-site areas to which access is necessary to implement this Order, and provide access to all records and documentation related to the conditions at the Site and the actions conducted pursuant to this Order.[1] Such access shall be provided to EPA employees, contractors, agents, consultants, designees,

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[1] Attached to the Order and incorporated herein by reference is the access authorization in effect at the time of execution of the Order.

representatives, and State of Mississippi representatives. These individuals shall be permitted to move freely at the Site and appropriate off-site areas in order to conduct actions which EPA determines to be necessary. Respondents shall submit to EPA, upon receipt, a summary of the results of all sampling or tests and all other data generated by Respondents or their contractors, or on the Respondents' behalf during implementation of this Order.

Where action under this Order is to be performed in areas owned by or in possession of someone other than Respondents, Respondents shall use their best efforts to obtain all necessary access agreements within forty-five (45) days after the effective date of this Order, or as otherwise specified in writing by the OSC. Respondents shall immediately notify EPA if after using their best efforts they are unable to obtain such agreements. Respondents shall describe in writing their efforts to obtain access. EPA may then assist Respondents in gaining access, to the extent necessary to effectuate the response actions described herein, using such means as EPA deems appropriate. Respondents shall reimburse EPA for all costs and attorneys' fees incurred by the United States in obtaining such access.

4. Record Retention, Documentation, Availability of Information

Respondents shall preserve all documents and information relating to work performed under this Order, or relating to the hazardous substances found on or released from the Site, for six years following completion of the removal actions required by this Order. At the end of this six year period and thirty (30) days before any document or information is destroyed, Respondents shall notify EPA that such documents and information are available to EPA for inspection, and upon request, shall provide the originals or copies of such documents and information to EPA. In addition, Respondents shall provide documents and information retained under this section at any time before expiration of the six year period at the written request of EPA.

Respondents may assert a business confidentiality claim pursuant to 40 CFR § 2.203(b) with respect to part or all of any information submitted to EPA pursuant to this Order, provided such claim is allowed by section 104(e)(7) of CERCLA, 42 U.S.C. § 9604(e)(7). Analytical and other data specified in Section 104(e)(7)(F) of CERCLA shall not be claimed as confidential by Respondents. EPA shall disclose information covered by a business confidentiality claim only to the extent permitted by, and by means of the procedures set forth at, 40 CFR Part 2, Subpart B. If no such claim accompanies the information when it is received by EPA, EPA may make it available to the public without further notice to Respondents.

5. Off-Site Shipments

All hazardous substances, pollutants or contaminants removed off-site pursuant to this Order for treatment, storage, or disposal shall be treated, stored, or disposed of at a facility in compliance, as determined by EPA, 42 U.S.C. § 9621(d)(3), and the "Revised Procedures for Implementing Off-Site Response Actions," OSWER Directive Number 9834.11, November 13, 1987. Regional Offices will provide information on the acceptability of a facility under Section 121(d)(3) of CERCLA and the above directive.

6. Compliance With Other Laws

Respondents shall perform all actions required pursuant to this Order in accordance with all applicable local, state, and federal laws and regulations except as provided in Section 121(e) of CERCLA and 40 CFR § 300.415(i). In accordance with 40 CFR § 300.415(i), all on-site actions required pursuant to this Order shall, to the extent practicable, as determined by EPA, considering the exigencies of the situation, attain applicable or relevant and appropriate requirements (ARARs) under federal environmental or state environmental or facility siting laws. (See, "The Superfund Removal Procedures: Guidance on the Consideration of ARARs During Removal Actions," OSWER Directive No. 9360.3-02, August 1991).

7. Emergency Response and Notification of Releases

If any incident or change in site conditions during the actions conducted pursuant to this Order causes or threatens to cause an additional release of hazardous substances from the Site or an endangerment to the public health, welfare, or the environment, Respondents shall immediately take all appropriate action. The Respondents shall take these actions in accordance with all applicable provisions of this Order, including but not limited to the Health and Safety Plan, in order to prevent, abate or minimize such release or endangerment caused or threatened by the release. Respondents also shall immediately notify the OSC or, in the event of his/her unavailability, shall notify the EPA Regional Emergency 24-hour telephone Duty Officer at 404-347-4062 of the incident or Site conditions. If Respondents fail to respond, EPA may respond to the release or endangerment and reserve the right to pursue cost recovery.

In addition, in the event of any such additional release of a hazardous substance from the Site, Respondents shall immediately notify EPA's OSC at 404-347-4062 and the National Response Center at telephone number (800) 424-8802. Respondents shall submit a written report to EPA within seven (7) days after each release, setting forth the events that occurred and the measures taken or to be taken to mitigate any release or endangerment caused or

threatened by the release and to prevent the reoccurrence of such a release. This reporting requirement is in addition to, not in lieu of, reporting under Section 103(c) of CERCLA and Section 304 of the Emergency Planning and Community Right-To-Know Act of 1986, 42 U.S.C. §§ 11001 et seq.

8. Efforts To Coordinate With Non-Parties To The Order

(A) Respondents shall make best efforts to coordinate in the performance of the work required by this Order with any person not a party to this Order who offers to perform or, in lieu of performance to pay for, in whole or in part, the work required by this Order. Best efforts to coordinate shall include, at a minimum:

(i) Replying in writing within a reasonable period of time to any offer to perform or pay for the work required by this Order;

(ii) Engaging in good-faith negotiations with any person not a party to this Order who offers to perform or to pay for the work required by this Order; and

(iii) good-faith consideration of a good-faith offer to perform or pay for the work required by this Order.

(B) On request of EPA and subject to any applicable claims of privilege(s), Respondents shall submit to EPA all documents in their possession, custody, or control relating to (i) any offer to perform or pay for, or (ii) the performance of or payment for, the work required by this Order of any party or non-party to this Order.

VI. AUTHORITY OF THE EPA ON-SCENE COORDINATOR

The OSC shall be responsible for overseeing Respondents' implementation of this Order. The OSC shall have the authority vested in an OSC by the NCP, including the authority to halt, conduct, or direct any work required by this Order, or to direct any other removal action undertaken at the Site. Absence of the OSC from the Site shall not be cause for stoppage of work unless specifically directed by the OSC.

VII. REIMBURSEMENT OF COSTS

Within sixty (60) days after the effective date of the Order, Respondents shall pay $ 115,370.37, in the manner detailed below, for reimbursement of past costs paid by the United States. EPA will submit to Respondents a bill for the past costs including a cost summary and will make available for review any available cost documentation not protected from disclosure by privilege(s). Past response costs are all costs, including but not limited to,

direct and indirect costs and interest, that the United States, its employees, agents, contractors, consultants, and other authorized representatives incurred and paid with regard to the Site prior to September 14, 1993. In addition, Respondents shall reimburse EPA for all future response costs, not inconsistent with the NCP, incurred by the United States.

Future response costs are all costs, including, but not limited to, direct and indirect costs, that the United States incurs in implementing or enforcing this Order. Future response costs shall also include all costs, including direct and indirect costs, paid by the United States in connection with the Site between September 14, 1993 and the effective date of this Order, and all interest on the Past Response Costs.

On an annual basis, EPA shall submit to Respondents a bill for future response costs that includes a cost summary. EPA will make available for review any available cost documentation not protected from disclosure by privilege(s). Respondents shall, within sixty (60) days of receipt of the bill, remit a cashier's or certified check for the amount of those costs made payable to the "Hazardous Substance Superfund" to Superfund Accounting, Attention: Superfund Collection Officer, P.O. Box 100142, Atlanta, Georgia 30384. If EPA receives funds from a settlement with de minimis parties, a portion of those funds shall be reimbursed or otherwise made available to Respondents for payment of future costs.

Respondents shall simultaneously transmit a copy of the check to Carolyn McCall, EPA Region IV, Waste Programs Branch, Waste Management Division, 345 Courtland Street, N.E., Atlanta, Georgia 30365. Payments shall be designated as "Response Costs - Enterprise Recovery Systems Site" and shall reference the payor's name and address, the EPA site identification number, and the docket number of this Order.

Interest at the rate established under Section 107(a) of CERCLA shall begin to accrue on the unpaid balance from the day after the expiration of the sixty (60) day period, notwithstanding any dispute or an objection to any portion of the costs.

Respondents may dispute all or part of a bill submitted under this Order, if Respondents determine that EPA has made an accounting error, or if Respondents allege that a cost item that is included represents costs that are inconsistent with the NCP.

If any dispute over costs is resolved before payment is due, the amount due will be adjusted as necessary. If the dispute is not resolved before payment is due, Respondents shall pay the full amount of the uncontested costs into the Hazardous Substance Fund as specified above on or before the due date. Within the same time period, Respondents shall pay the full amount of the

contested costs into an interest-bearing escrow account. Respondents shall simultaneously transmit a copy of both checks to the OSC. Respondents shall ensure that the prevailing party or parties in the dispute shall receive the amount upon which they prevailed from the escrow funds plus interest within sixty (60) days after the dispute is resolved.

VIII. DISPUTE RESOLUTION

The parties to this Order shall attempt to resolve, expeditiously and informally, any disagreements concerning this Order.

If Respondents object to any EPA action taken pursuant to this Order, including billings for future response costs, Respondents shall notify EPA in writing of their objections within fourteen (14) days of such action, unless the objections have been resolved informally.

EPA and Respondents shall have fourteen (14) days from EPA's receipt of Respondents' written objections to attempt to resolve the dispute through formal negotiations (Negotiation Period). The negotiation period may be extended at the sole discretion of EPA. EPA's decision regarding an extension of the Negotiation Period shall not constitute an EPA action subject to dispute resolution or a final agency action giving rise to judicial review.

Any agreement reached by the parties pursuant to this section shall be in writing, signed by both parties, and shall upon signature by both parties be incorporated into and become an enforceable element of this Order. If the parties are unable to reach an agreement within the Negotiation Period, an EPA management official at the Division Director level or higher will issue a written decision on the dispute to Respondents. The decision of EPA shall be incorporated into and become and enforceable element of this Order upon Respondents' receipt of the EPA decision regarding the dispute. Respondents' obligations under this Order shall not be tolled by submission of any objection for dispute resolution under this section.

Following resolution of the dispute, as provided by this section, Respondents shall fulfill the requirement that was the subject of the dispute in accordance with the agreement reached or with EPA's decision, whichever occurs. No EPA decision made pursuant to this section shall constitute a final agency action giving rise to judicial review.

IX. FORCE MAJEURE

Respondents agree to perform all requirements under this Order within the time limits established under this Order, unless the performance is delayed by a force majeure. For purposes of this

Order, a force majeure is defined as any event arising from causes beyond the control of Respondents or of any entity controlled by or contractually related to Respondents, including but not limited to their contractors and subcontractors, that delays or prevents performance of any obligation under this Order despite Respondents' best efforts to fulfill the obligation. Force majeure does not include financial inability to complete the work or increased cost of performance.

Respondents shall notify EPA orally within forty-eight (48) hours after the event, and in writing within five (5) days after Respondents become or should have become aware of events which constitute a force majeure. Such notice shall: identify the event causing the delay or anticipated delay; estimate the anticipated length of delay, including necessary demobilization and re-mobilization; state the measures taken or to be taken to minimize the delay; and estimate the timetable for implementation of the measures. Respondents shall take all reasonable measures to avoid and minimize the delay. Failure to comply with the notice provision of this section shall waive any claim of force majeure by the Respondents.

If EPA determines a delay in performance of a requirement under this Order is or was attributable to a force majeure, the time period for performance of that requirement shall be extended as deemed necessary by EPA. Such an extension shall not alter Respondents' obligation to perform or complete other tasks required by the Order which are not directly affected by the force majeure.

X. STIPULATED AND STATUTORY PENALTIES

For each day, or portion thereof, that Respondents fail to perform fully any requirement of the Order in accordance with the schedule set forth hereunder, Respondents shall be liable as follows:

A. For each day during which Respondents fail to perform in accordance with the schedules contained in the Order and the various plans and reports required under the Order, any of the following activities:

i. commencement of work as prescribed in the Order, including submittal of any Work Plans as described in Paragraph V(2.1);

ii. submittal and, if necessary, modification of the final report;

Respondents shall be jointly and severally liable to EPA for stipulated penalties in the following amounts:

Period of Failure to Comply	Penalty Per Violation Per Day
1st through 14th day	$500
15th through 30th day	$1000
31st day and beyond	$2000

B. Respondents shall be jointly and severally liable to EPA for stipulated penalties in the amount of $100 per violation each day during which Respondents fail to comply with all other requirements of this Order.

Upon receipt of written demand by EPA, Respondents shall make payment to EPA within sixty (60) days. Interest shall accrue on late payments as of the date the payment is due which is the date of the violation or act of non-compliance triggering the stipulated penalties.

Even if violations are simultaneous, separate penalties shall accrue for separate violations of this Order. Penalties accrue and are assessed per violation per day. Penalties shall accrue regardless of whether EPA has notified Respondents of a violation or act of noncompliance. The payment of penalties shall not alter in any way Respondents' obligations to complete the performance of the work required under this Order.

Should Respondents violate this Order or any portion hereof, EPA may carry out the required actions unilaterally, pursuant to Section 104 of CERCLA, 42 U.S.C. § 9604, and/or may seek judicial enforcement of this Order pursuant to Section 106 of CERCLA, 42 U.S.C. § 9606.

XI. RESERVATION OF RIGHTS

Except as specifically provided in this Order, nothing herein shall limit the power and authority of EPA or the United States to take, direct, or order all actions necessary to protect public health, welfare, or the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances, pollutants or contaminants, or hazardous or solid waste on, at, or from the Site. Further, nothing herein shall prevent EPA from seeking legal or equitable relief to enforce the terms of this Order, from taking other legal or equitable action as it deems appropriate and necessary, or from requiring the Respondents in the future to perform additional activities pursuant to CERCLA or any other applicable law. EPA reserves the right to bring an action against Respondents under Section 107 of CERCLA, 42 U.S.C. § 9607, for recovery of any response costs incurred by the United States related to this Order or the Site and not reimbursed by Respondents. Respondents expressly reserve any and all rights

(including, but not limited to, any right to contribution), defenses, claims, demands, causes of action which Respondents may have with respect to any matter, transaction or occurrence relating in any way to the Site against any persons not parties to this Order.

XII. OTHER CLAIMS

By issuance of this Order, the United States and EPA assume no liability for injuries or damages to persons or property resulting from any acts or omissions of Respondents. The United States or EPA shall not be deemed a party to any contract entered into by the Respondents or their directors, officers, employees, agents, successors, representatives, assigns, contractors, or consultants in carrying out actions pursuant to this Order.

Except as expressly provided in Section XIV - Covenant Not To Sue, nothing in this Order constitutes a satisfaction of or release from any claim or cause of action against the Respondents or any person not a party to this Order, for any liability such person may have under CERCLA, other statutes, or the common law, including but not limited to any claims of the United States for costs, damages and interest under Sections 106(a) and 107(a) of CERCLA, 42 U.S.C. §§ 9606(a) and 9607(a).

This Order does not constitute a preauthorization of funds under Section 111(a)(2) of CERCLA, 42 U.S.C. § 9611(a)(2). Respondents waive any claim to payment under Sections 106(b), 111, and 112 of CERCLA, 42 U.S.C. §§ 9606(b), 9611, and 9612, against the United States or the Hazardous Substance Superfund arising out of any action performed under this Order.

No action or decision by EPA pursuant to this Order shall give rise to any right to judicial review except as set forth in Section 113(h) of CERCLA, 42 U.S.C. § 9613(h).

XIII. COVENANT NOT TO SUE

Except as otherwise specifically provided in this Order, upon issuance of the EPA notice referred to in Section XVII - Notice of Completion, EPA covenants not to sue Respondents for judicial imposition of damages or civil penalties or to take judicial or administrative action against Respondents for any failure to perform response actions agreed to in this Order except as otherwise reserved herein.

Except as otherwise specifically provided in this Order, in consideration and upon Respondents' payment of the response costs specified in Section VIII of this Order, EPA covenants not to sue or to take administrative action against Respondents under Section 107(a) of CERCLA for recovery of past and future response costs incurred by the United States in connection with this

removal action or this Order. This covenant not to sue shall take effect upon the receipt by EPA of the payments required by Section VIII - Reimbursement of Costs.

These covenants not to sue are conditioned upon the complete and satisfactory performance by Respondents of their obligations under this Order. These covenants not to sue extend only to the Respondents and do not extend to any other person.

XIV. CONTRIBUTION PROTECTION

With regard to claims for contribution against Respondents for matters addressed in this Order, the Parties hereto agree that Respondents are entitled to protection from contribution actions or claims to the extent provided by Sections 113(f)(2) and 122(h)(4) of CERCLA, 42 U.S.C. §§ 9613(f)(2) and 9622(h)(4). Nothing in this Order precludes the United States or Respondents from asserting any claims, causes of action or demands against any persons not parties to this Order for indemnification, contribution, or cost recovery.

XV. INDEMNIFICATION

Respondents agree to indemnify, save and hold harmless the United States, its officials, agents, contractors, subcontractors, employees and representatives from any and all claims or causes of action: (A) arising from, or on account of, acts or omissions of Respondents, Respondents' officers, heirs, directors, employees, agents, contractors, subcontractors, receivers, trustees, successors or assigns, in carrying out actions pursuant to this Order; and (B) for damages or reimbursement arising from or on account of any contract, agreement, or arrangement between any one or more of Respondents, and any persons for performance of work on or relating to the Site, including claims on account of construction delays. In addition, Respondents agree to pay the United States all costs incurred by the United States, including litigation costs arising from or on account of claims made against the United States based on any of the acts or omissions referred to in the preceding paragraph.

XVI. INSURANCE

At least seven (7) days prior to commencing any on-site work under this Order, Respondents shall secure, and shall maintain for the duration of this Order, comprehensive general liability insurance and automobile insurance with limits of five hundred thousand ($500,000) dollars, combined single limit. Within the same time period, Respondents shall provide EPA with certificates of such insurance and a copy of each insurance policy. If Respondents demonstrate by evidence satisfactory to EPA that any contractor or subcontractor maintains insurance equivalent to that described above, or insurance covering some or all of the

same risks but in an equal or lesser amount, then the Respondents need provide only that portion of the insurance described above which is not maintained by such contractor or subcontractor.

XVII. MODIFICATIONS

Modifications to any plan, schedule or Statement of Work may be made in writing by the OSC or at the OSC's oral direction subject to the provisions of Section VIII - Dispute Resolution. However, modifications or other actions directed by the OSC consistent with his or her emergency response authority are not subject to Section VIII - Dispute Resolution. If the OSC makes an oral modification, he or she will memorialize it in writing within seven (7) days; provided, however, that the effective date of the modification shall be the date of the OSC's oral direction. Any other requirements of the Order may be modified in writing by mutual agreement of the parties.

If Respondents seek permission to deviate from any approved Work Plan, schedule or Statement of Work, Respondents' Project Coordinator shall submit a written request to EPA for approval outlining the proposed Work Plan modification and its basis.

No informal advice, guidance, suggestion, or comment by EPA regarding reports, plans, specifications, schedules, or any other writing submitted by the Respondents shall relieve the Respondents of their obligations to obtain such formal approval as may be required by this Order, and to comply with all requirements of this Order unless it is formally modified.

XVII. NOTICE OF COMPLETION

When EPA determines, after EPA's review of the Final Report, that all removal actions have been fully performed in accordance with this Order, with the exception of any continuing obligations required by this Order, EPA will provide notice to the Respondents. If EPA determines that any removal actions have not been completed in accordance with this Order, EPA will notify the Respondents, provide a list of the deficiencies, and require that Respondents modify the Work Plan if appropriate in order to correct such deficiencies. The Respondents shall implement the modified and approved Work Plan and shall submit a modified Final Report in accordance with the EPA notice. Failure by Respondents to implement the approved modified Work Plan shall be a violation of this Order.

XVIII. PUBLIC COMMENT

Final acceptance by EPA of Section VII of this Order shall be subject to Section 122(i) of CERCLA, 42 U.S.C. § 9622(i), which requires EPA to publish notice of the proposed settlement in the Federal Register, to provide persons who are not parties to the

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VII of this Order if comments received disclose facts or considerations which indicate that Section VII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

XIX. SEVERABILITY

If a court issues an order that invalidates any provision of this Order or finds that Respondents have sufficient cause not to comply with one or more provisions of this Order, Respondents shall remain bound to comply with all provisions of this Order not invalidated or determined to be subject to a sufficient cause defense by the court's order.

XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY_____
FOR_____
Title_____
Date_____

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XX. EFFECTIVE DATE

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY Thomas A. Show
Title Environmental Affairs Manager (Alpha Carpet. TN.)
Date 9-22-93

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY C R Knowles
Title MANAGER, ENVIRONMENTAL REMEDIATION, ATLANTIC RICHFIELD CO.
Date 9/22/93

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

Blazon Flexible Flyer & Flexible Flyer Co.,
Divisions of Par Industries, Inc.

BY [signature]
Title VICE PRESIDENT
Date 9-22-93

FROM:7137395882220 TO: 16013288035 SEP 20, 1993 4:53PM #860 P.2

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

Borg-Warner Automotive Electronic & Mechanical Systems Corporation
(formerly a second tier subsidiary of Borg-Warner Corporation)

BY _____
Title Vice President & Treasurer
Date September 22, 1993

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

CARRIER CORPORATION

BY Robert E. Galli, Robert E. Galli
Title Vice President and General Counsel
Date September 20, 1993

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY James A. Chokey
Title Vice President and General Counsel
Date September 27, 1993

COOPER INDUSTRIES

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY _____
Title President
Date 9/20/93

Environmental Enterprises

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY M. E. Flynn
Title Southeastern Division Manager, Exxon Company, U.S.A., a Division of Exxon Corp.
Date 9/27/93

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY _____
Title Vice President of Operations
Date 9/17/93

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY Grant J. Ostrom
Title CEO and President - Heckethorn Mfg. Co.
Date September 17, 1993

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY _____

Title President: ICI Acrylics, Inc. (Formerly ICI-KSH)

Date September 21, 1993

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

ITW SHAKEPROOF SPECIALTY PRODUCTS

BY [signature]

Title HUMAN RESOURCE + ENVIRONMENTAL DIRECTOR

Date SEPT 27, 1993

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

KUHLMAN ELECTRIC CORPORATION

BY Bud J. Hook Bud J. Hook
Title V. P. Operations, Power Transformer Division
Date September 23, 1993

~~proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.~~

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representative~~s~~ of Lincoln Brass Works, Inc. certifies ~~Respondents certify~~ that ~~they~~ he is ~~are~~ fully authorized to enter into the terms and conditions of this Order and to bind the ~~parties they represent~~ party he represents to this Order.

BY William L. Peelin
Title VICE PRESIDENT ENGINEERING
Date September 21, 1993

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

LUDLOW CORPORATION

BY _____

Title President

Date September 22, 1993

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XX. EFFECTIVE DATE

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY Dennis J. Hatfield
Title Corp. Asst. VP, Facilities & Environmental
Date Sept. 24, 1993

MAGNETEK

FROM:7137395852 TO: 202 428 6424 SEP 24, 1993 11:11AM #528 P.21

is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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XX. EFFECTIVE DATE

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

Manchester Tank & Equip Co

BY _____
Title Corporate Environmental Director
Date 9-24-93

BY _____
Title _____
Date _____

It is so ORDERED and AGREED this ____ day of _____, 1993.

_____ Date _____
Joseph R. Franzmathes
Director
Waste Management Division
U.S. EPA, Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

FROM:7137395882 20 TO: 615 372 6152 AUG 24, 1993 4:12PM #482 P.22

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

OR/CANS Corporation, Inc.

BY [signature]

Title Counsel

Date 9/28/93

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY Thomas R. Hayes
Title Director, Litigation
Date September 20, 1993

OCF

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

XIX. SEVERABILITY

If a court issues an order that invalidates any provision of this Order or finds that Respondents have sufficient cause not to comply with one or more provisions of this Order, Respondents shall remain bound to comply with all provisions of this Order not invalidated or determined to be subject to a sufficient cause defense by the court's order.

XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY _____
Title Corporate Counsel
Date September 22, 1993

SCI

The undersigned representative of Scovill, Inc. on behalf of Schrader Automotive certifies that he is fully authorized to enter into the terms and conditions of this Order and bind the party he represents to this Order.

By _____

Title EVP

Date 9-23-93

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY David R. Sargent
Title VICE PRESIDENT
Date 9/27/93

Sunbeam-Oster Co.

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

TECUMSEH PRODUCTS COMPANY

BY JOHN H. FOSS

Title VICE PRESIDENT, TREASURER AND CHIEF FINANCIAL OFFICER

Date

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

TELEDYNE LEWISBURG

BY _____ (Carl H. Helmstetter)
Title Attorney
Date September 23, 1993

TELEDYNE STILL-MAN

By _____ (Carl H. Helmstetter)
Title Attorney
Date September 23, 1993

TELEDYNE FIRTH STERLING

By _____ (Carl H. Helmstetter)
Title Attorney
Date September 23, 1993

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XX. EFFECTIVE DATE

This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY Donald D. Schneider
Title Vice President, Thomas Industries Inc.
Date 09/21/93

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY Carle R Bormon Jr.
Title SENIOR VICE PRESIDENT
Date SEPTEMBER 20, 1993

Thompson; Granby

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The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY _____
Title Group Counsel, The Trane Company, a Division of American Standard Inc.
Date 9-21-93

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BY James McKee

Title President - Vickers, Incorporated

Date September 24, 1993

proposed settlement an opportunity to comment, solely, on the cost recovery component of the settlement, and to consider comments filed in determining whether to consent to the proposed settlement. After consideration of any comments submitted during the thirty (30) day public comment period held pursuant to Section 122(i) of CERCLA, EPA may withhold consent to all or part of Section VIII of this Order if comments received disclose facts or considerations which indicate that Section VIII of this Order is inappropriate, improper or inadequate. Otherwise, Section VII shall become effective when EPA issues notice to Respondents that the former is not withdrawing from this section of the Order.

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This Order shall be effective upon signature by the Director, Waste Management Division.

The undersigned representatives of Respondents certify that they are fully authorized to enter into the terms and conditions of this Order and to bind the parties they represent to this Order.

BY The Wurlitzer Company C. R. Juenglin
Title Vice President
Date September 21, 1993

It is so ORDERED and AGREED this 27TH day of September, 1993.

Date 27 SEP 93

Joseph R. Franzmathes
Director
Waste Management Division
U.S. EPA, Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365

ENTERPRISE RECOVERY SYSTEMS SITE
ADMINISTRATIVE ORDER ON CONSENT FOR REMOVAL ACTION

ATTACHMENT "A"
RESPONDENTS

Alpha Resins

Atlantic Richfield Co.

Blazon Flexible Flyer & Flexible Flyer Co.

Borg-Warner Automotive

Carrier Corporation

Cooper Industries

Environmental Enterprises Incorporated

Exxon Company, U.S.A.

Heatcraft Inc.

Heckethorn Manufacturing Co.

ICI Acrylics Inc.

ITW Shakeproof Specialty Products

Kuhlman Electric Corporation

Lincoln Brass Works, Inc.

Ludlow Corporation

Magnetek

Manchester Tank & Equipment Co.

Orleans Furniture, Inc.

Owens-Corning Fiberglas Corp.

SCI Systems, Inc.

Scovill, Inc. (Schrader Automotive)

Sunbeam Corporation

Tecumseh Products Company

Teledyne

Thomas Industries Inc. (Day-Brite)

Thompson & Formby

The Trane Company

Vickers Incorporated

The Wurlitzer Company

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET N E
ATLANTA GEORGIA 30365

SEP 30 1992

GENERAL NOTICE LETTER
AND INFORMATION REQUEST
URGENT LEGAL MATTER--PROMPT REPLY NECESSARY
CERTIFIED MAIL--RETURN RECEIPT REQUESTED

Enterprise Recovery Systems, Inc.
C/O Robert C. Thompson
5143 Charlotte Circle North
Memphis, Tennessee 38117

RE: Notification of Liability as a Potentially Responsible Party
Enterprise Recovery Systems Site
Byhalia, Marshall County, Mississippi

Dear Mr. Thompson:

This letter notifies Enterprise Recovery Systems, Inc., ("Enterprise") of potential liability, as defined by Section 107(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended, 42 U.S.C. § 9607(a), that it may have incurred with respect to the above-referenced site (hereinafter referred to as the "Site"). This letter also notifies Enterprise of current and forthcoming removal activities at the Site. At a later date, the United States Environmental Protection Agency ("EPA") may ask Enterprise to reimburse the Hazardous Substances Superfund for the costs of these removal activities. EPA also may issue an Administrative Order requiring Enterprise to perform some, or all, of such forthcoming removal activities. In addition, this letter requests that you submit certain information concerning your knowledge of, and involvement at, the Site.

NOTICE OF POTENTIAL LIABILITY

EPA has documented the release or threatened release of hazardous substances, pollutants, or contaminants at the Site. EPA has spent and is considering spending public funds on actions to investigate and abate such releases and threatened releases at the Site.

Under Sections 106(a) and 107(a) of CERCLA, 42 U.S.C. § 9606(a) and 9607(a), Section 7003 of the Resource Conservation and Recovery Act, 42 U.S.C. § 6973 ("RCRA"), and other laws, potentially responsible parties ("PRPs") may be obligated to implement response actions deemed necessary by EPA to protect

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health, welfare or the environment. PRPs also may be liable for all costs incurred by the government to take necessary corrective actions at the Site, including planning, investigation, cleanup and enforcement activities associated with the Site. In addition, PRPs may be required to pay damages for injury to natural resources or for their destruction or loss, together with the cost of assessing such damages.

EPA has evaluated information in connection with the investigation of the Site. Enterprise operated at the Site a commercial recycling facility which recycled solvents generated by a number of industries in the mid-South region. Based on this information, EPA believes that Enterprise Recovery Systems, Inc., may be an owner and operator of the Site and, therefore, a PRP with respect to the Site. PRPs under Section 107(a) of CERCLA include: the current owners or operators of the Site; persons who at the time of disposal of hazardous substances owned or operated the facility; persons who by contract, agreement, or otherwise arranged for disposal or treatment, or arranged with a transporter for disposal or treatment of hazardous substances; and persons who accept or accepted any hazardous substance for transport to disposal facilities and selected such facilities. Under CERCLA and other laws, PRPs may be liable for all funds expended by the government to take necessary corrective action at the Site, including planning, investigation, cleanup and enforcement activities associated with the Site. In addition, PRPs may be required to pay damages for injury to natural resources or for their destruction or loss, together with the cost of assessing such damages.

SITE RESPONSE ACTIVITIES

In accordance with CERCLA and other authorities, EPA already has undertaken certain actions and incurred certain costs in response to conditions at the Site. These response actions include a site assessment and sampling of drum materials in the contaminated areas. EPA plans to expend additional funds for response activities at the Site under the authority of CERCLA and other laws, including the removal and disposal of additional hazardous substances at the Site.

DECISION NOT TO USE SPECIAL NOTICE

Under Section 122(e) of CERCLA, 42 U.S.C § 9622(e), EPA has the discretion to invoke special notice procedures to formally negotiate the terms of an agreement between EPA and PRPs to conduct or finance response activities. Use of these special notice procedures triggers a moratorium on certain EPA activities at the Site while formal negotiations between EPA and the PRPs are conducted.

In this case, EPA has decided not to invoke the special notice procedures. The issuance of the Section 122(e) special notice would delay implementation of the removal action, and thus, would interfere with EPA's obligation to abate the release and threat of release of hazardous substances in a timely manner. In order to expedite removal activities, it is EPA's policy not to use the special notice procedures for removals unless there is six (6) months of planning lead time after the decision to respond and prior to the initiation of the action. Since the planning lead time for this response action is less than six (6) months, special notice procedures will not be used.

INFORMATION REQUEST

Pursuant to Section 104(e) of CERCLA, 42 U.S.C. § 9604(e), and Section 3007 of RCRA, 42 U.S.C. § 6927, EPA has the authority to require any person who has or may have knowledge of, or information about, a Superfund site, including the types of hazardous substances and materials generated, treated, stored, disposed, and/or released at a site, and the identities of persons who owned and operated the Site, or who generated, treated, stored, or disposed of the materials, to provide any such information to EPA upon request. As a PRP for this Site, Enterprise is hereby directed to respond to the Information Request set forth in Enclosure A. Enterprise's response to the Information Request must be submitted to EPA within fourteen (14) calendar days after your receipt of this letter.

Compliance with the Information Request is mandatory. Failure to reply fully and truthfully in writing to this Information Request or to justify adequately in writing such failure to respond, may result in enforcement action by EPA pursuant to Section 104 of CERCLA, as amended, and/or Section 3008 of RCRA. Each of these statutes permits EPA to seek the imposition of penalties of up to twenty-five thousand dollars ($25,000) for each day of noncompliance. Please be further advised that submission of false or fraudulent statements or representations may subject you to criminal penalties under 18 U.S.C. § 1001 or Section 3008(d) of RCRA.

EPA regulations governing confidentiality of business information are set forth in Part 2, Subpart B, of Title 40 of the Code of Federal Regulations ("CFR"). A confidentiality claim may be asserted in accordance with criteria set forth in 40 CFR § 2.200, for any portion of the information submitted which is entitled to confidential treatment. The information will be disclosed only to the extent and by means of the procedures specified in 40 CFR Part 2, Subpart B. EPA will construe the failure to furnish a confidentiality claim with respect to this letter as a waiver of that claim, and information may be made available to the public by EPA without further notice.

Enterprise's response to the Information Request should include the appropriate name, address and telephone number for further contact with Enterprise. If Enterprise is involved in discussions with state or local authorities, engaged in voluntary action or involved in a lawsuit regarding this Site, Enterprise should continue that activity and report the status of those discussions or that action in its letter. Please provide a copy of Enterprise's letter to any other parties involved in those discussions. In addition, if Enterprise has any reason to believe that there may be other PRPs that have not been identified by EPA, please provide, to the extent available, the names, addresses and telephone numbers of those parties, and brief explanation of why such other parties may be liable.

ADMINISTRATIVE RECORD

Pursuant to Section 113(k) of CERCLA, EPA must establish an administrative record that contains documents that form the basis of EPA's decision on the selection of a response action for the Site. The administrative record files will be available to the public for inspection and comment. The central location of the administrative record file will be the EPA Region IV office, 345 Courtland Street, N.E., Atlanta, Georgia 39365. The local site for the administrative record will be selected at a later date when the record is assembled.

PRP RESPONSE AND EPA CONTACT

Enterprise is encouraged to provide EPA, within ten (10) days of its receipt of this letter, with a letter of intent of its willingness to finance response activities at the Site and to participate in possible future negotiations. The letter of intent should state whether Enterprise intends to negotiate to finance the response action and enter into negotiations regarding payment of EPA's past costs. If EPA does not receive a timely response, EPA will assume that Enterprise does not wish to resolve its potential liabilities regarding this Site. Enterprise may be held liable under Section 107 of CERCLA for the cost of the response activities EPA performs and for any damages to natural resources.

The factual and legal discussions contained in this letter are intended solely for notification and edification purposes. They are not intended to and cannot be relied upon as final EPA positions on any matter set forth herein.

If you or your attorney have any questions relating to this matter, please direct them to Elizabeth B. Davis, Assistant Regional Counsel, at 404-347-2641, extension 2283. Any technical questions regarding this matter should be directed to Robert N. Rosen, On-Scene Coordinator, at 404-347-3931.

to the seriousness of the problem at the Site and the legal ifications of your failure to respond properly, EPA strongly ncourages you to give this matter your immediate attention and o respond within the time limits specified in this letter.

Sincerely,

Richard D. Green, Deputy

Joseph R. Franzmathes
Director
Waste Management Division

Enclosure

cc: James McCafferty

APPENDIX B

EPA APPROVED WORKPLANS
AND
ASSOCIATED DOCUMENTS

HOLCOMB, DUNBAR, CONNELL, CHAFFIN & WILLARD
A PROFESSIONAL ASSOCIATION
ATTORNEYS AT LAW
150 NORTH CONGRESS STREET
POST OFFICE BOX 2280
SUITE 900, EASTOVER BANK BUILDING
JACKSON, MISSISSIPPI 39207-2280
601-948-0040
TELECOPIER 601-948-0050

JACK P. DUNBAR
WILLIAM M. CHAFFIN
WILLIAM R. WILLARD, JR.
W. LARRY HARRIS
JAMES M. WILKINSON
CRAIG M. GENO
GUY T. MASSAPETE III
EDWARD A. HUNG
THOMAS J. STEREN
JOHN E. SHEPPARD
WYLIE W. DUNBAR
DAVID C. DUNBAR
MICHAEL P. WATTS
JAMES O. ARNOLD
WILLIAM A. BARNES
REED PUMPHREY
ROBERT E. PAULEY
ROBERT F. WOOD
JAMES T. McCAFFERTY III
THOMAS T. DUNBAR
JEFFREY B. DILLEY
DAVID A. BURKE
DANA GAIL DEATON
STEPHEN E. POORE
BETTY W. MATHARD
T. EWATES ALFORD
GEORGE W. DEATON
NANCY M. MARONE
ROBERT S. KUKE
JEFFREY E. TYNER

OF COUNSEL
PAT B. HOLCOMB
CHARLES M. DUNN
EDWARD P. CONNELL
ROBERT A. WEBB
RALPH E. POOTS

108 DELTA AVENUE
POST OFFICE BOX 368
CLARKSDALE, MISSISSIPPI 38614
601-627-2241
TELECOPIER 601-627-2746

1217 JACKSON AVENUE
POST OFFICE DRAWER 707
OXFORD, MISSISSIPPI 38655
601-234-5775
TELECOPIER 601-234-9036

1004 WEST COMMERCE STREET
POST OFFICE DRAWER 868
ABERDEEN, MISSISSIPPI 39730
601-369-6600
TELECOPIER 601-369-6404

January 8, 1993

Elizabeth B. Davis, Esquire
Office of Counsel
United States Environmental Protection Agency
Region IV
345 Courtland Street, NE
Atlanta, Georgia 30365

RE: Enterprise Recovery Systems Site
Byhalia, Marshall County, Mississippi

Dear Ms. Davis:

Enclosed please find an access authorization form for the Enterprise Recovery Systems property in Marshall County, Mississippi, signed by Robert Thompson, President, Enterprise Recovery Systems, Inc.

Please call me if you have any questions.

Sincerely,

JAMES T. McCAFFERTY, III

JTM,III/cds

ACCESS AUTHORIZATION

I, Robert C. Thompson, of legal age and resident, Memphis, Tennessee, do hereby DECLARE that:

1. Enterprise Recovery Systems, Inc., is the legal owner of a property located at Route 5, Cayce Road, in Byhalia, Mississippi, commonly known and referred to as the Enterprise Recovery Systems Site ("the Site").

2. I am the President of Enterprise Recovery Systems, Inc., and authorized to grant access on behalf of the corporation.

3. I hereby expressly grant authorization to the United States Environmental Protection Agency (EPA), its officers, employees, contractors, subcontractors, and other authorized representatives access to use the Site, mentioned in the preceding paragraph of this Access Authorization, for the purpose of conducting the removal action at the Site as described herein. Activities to be undertaken during the removal action include, but are not limited to:

i) the stabilization of reactive, leaking or weakened containers;

ii) the stabilization and/or treatment of unstable materials;

iii) the sampling of containerized and uncontainerized materials;

iv) the sampling of surface water, groundwater, and soil;

v) the overpacking, labelling and staging of containers prior to their removal from the property;

vi) the removal from the property of containerized materials for proper disposition off-site;

vii) review of site records and documents; and

viii) such other actions as may be necessary to abate the threat to public health, welfare and the environment posed by the release and threat of release of hazardous substances at and from the property.

4. I shall allow EPA and its authorized agents and representatives to enter the Site and conduct the removal action at all reasonable times as required by Section 104(e)(3) of CERCLA, 42 U.S.C. § 9604(e)(3).

5. I understand that, for health and safety purposes, I must not enter the Site during the course of the removal action

without prior approval from EPA and without escort by an EPA agent or representative. I shall not enter the property nor otherwise interfere in any way with the removal action being conducted at the Site as described herein, nor shall I attempt to interfere with any additional work determined by EPA to be necessary.

6. The consent for access and use granted herein will commence on November 10, 1992 and will terminate upon the completion of the removal action described herein. EPA anticipates that the removal activities will continue for approximately one year.

7. I realize that EPA's need for access and use of my property, mentioned in paragraph 1 of this Access Authorization, are undertaken pursuant to its response and enforcement responsibilities under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), 42 U.S.C. § 9601 et. seq., as amended by the Superfund Amendments and Reauthorization Act ("SARA"), Public Law 99-499.

8. This written authorization is given by me, voluntarily, with knowledge of my option to refuse and without threats or promises of any kind.

9. By granting this authorization, I do not waive any right that I may be entitled to.

NOV 10, 1992
Date

Enterprise Recovery Systems, Inc.
by Robert C. Thompson, President

RUST REMEDIAL SERVICES

WORKPLAN FOR THE PHASE I REMOVAL ACTION

AT

THE ENTERPRISE RECOVERY SYSTEMS SITE
BYHALIA, MISSISSIPPI

NOVEMBER 1993

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4.0 INSTALLATION OF POTABLE WATER SUPPLY

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1.0 EXECUTIVE SUMMARY

This work plan for the phase I removal action to be performed at the Enterprise Recovery Systems Site in Byhalia, Mississippi has been prepared to comply with the terms of an Administrative Order of Consent (AOC) between the United States Environmental Protection Agency (US EPA), and the PRP Group for the site.

The Enterprise Recovery Systems Site was operated as a permitted solvent recycling facility between 1978 and October 1991, when the facility's insurer canceled it's coverage after discovering significant soil and groundwater contamination at the site. Following this period a series of inspections by state and federal environmental agencies have confirmed this contamination and identified a number of tanks and drums on the site which have leaked in the past. As a result of these inspections, US EPA has entered into an Administrative Order of Consent (AOC) with the PRP Group for the Site.

The work plan which follows details the activities which will be performed during the phase I removal action, including: installation of a permanent alternative potable water supply for those residents whose wells are or will be contaminated by releases attributable to the site, disposal of the hazardous waste materials presently stored in on-site drums, tanks, and other containers, and completion of preliminary site investigation activities required to define the nature and extent of soil contamination above the water table at the site.

2.0 BACKGROUND

The Enterprise Recovery Systems Site is a 8 acre parcel of land located on rural Cayce Road between U.S. Highway 72 and 78 in northern Montgomery County, Mississippi. There are currently 35 liquid storage tanks of various sizes, approximately 300 drums, and a sheet metal building housing an office warehouse and processing area located on the site (see the attached Site Map). It is estimated that the tanks and drums presently contain a total of approximately 110,000 gallons of waste liquids.

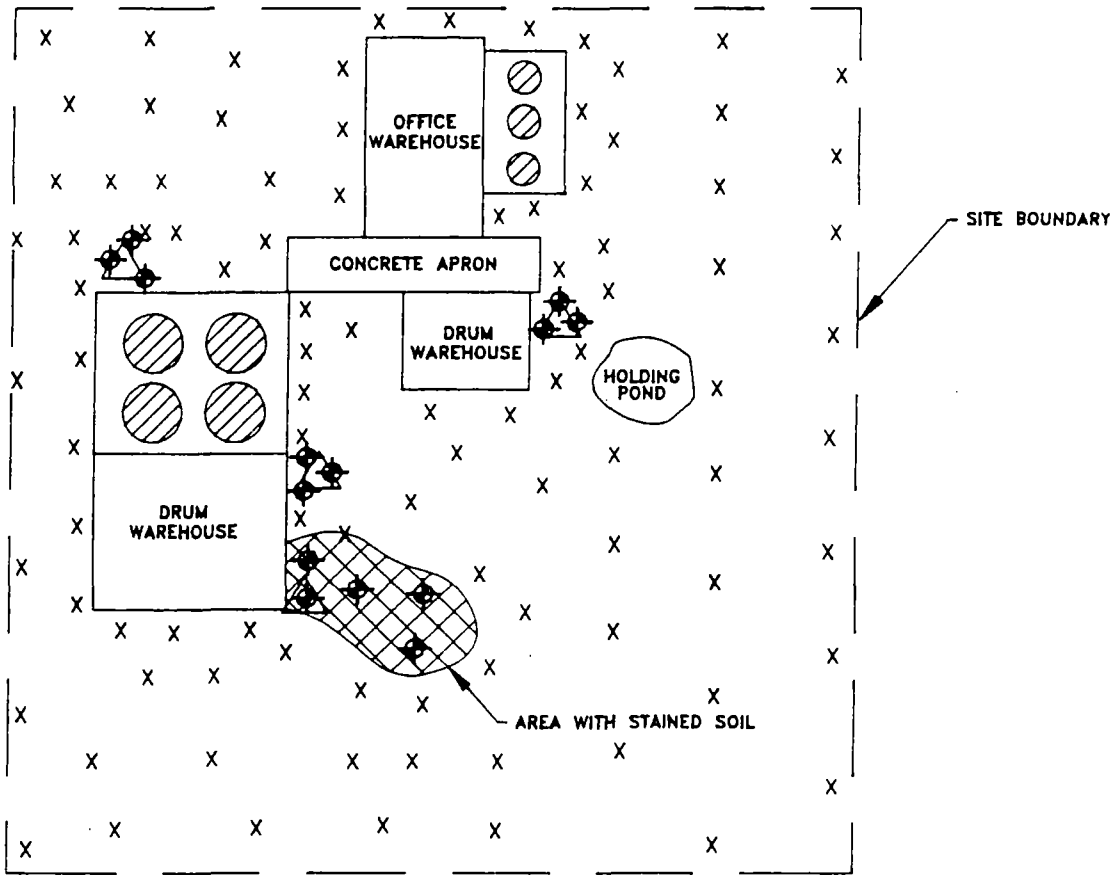
The tanks and drums are located in a fenced and concrete lined containment area. Although the permeability of the soil underlying and surrounding the containment area is not known, it is believed to be high.

The area surrounding the site is primarily agricultural, with a small group of homes located within 200 yards of the site. Nonconnah Creek headwaters flow alongside the northern and eastern boundaries of the site, and the site is within the recharge area for the Kosciusko Aquifer.

2.1 Site History

The Enterprise Recovery Systems Site, was operated as a solvent recovery facility from 1978 to October 1991. The facility operated under a RCRA Part B permit authorizing solvent recycling activities.

In July 1991 the Mississippi Department of Environmental Quality (MDEQ) conducted a facility inspection which revealed significant soil and groundwater contamination. In October of 1991, operations were discontinued at the site when the operator's insurance coverage was cancelled. Shortly thereafter, MSDEQ issued an order to the



LEGEND

△ CONFIRMED AREAS OF SURFACE CONTAMINATION

X PROPOSED 6"–8" SUBSURFACE SAMPLE LOCATIONS

ABOVE GROUND STORAGE TANKS

PROPOSED 15' SOIL BORING

Location: B.R.,LA File name: K:\DRWG\MISC\3B477C1.DWG Last edited: 09/16/93 @ 16:47

ENTERPRISE RECOVERY SYSTEMS MARSHALL COUNTY, MISSISSIPPI	**Woodward-Clyde Consultants** Consulting Engineers, Geologists and Environmental Scientists Baton Rouge, Louisiana	PROPOSED SAMPLE LOCATION MAP	FILE NO. 93B477P FIG. NO. 1
	SCALE: N.T.S. / DRAWN BY: PCG / DATE: 9/16/93 / CHKD. BY: ACE / DATE: 9/16/93		

operator of the Enterprise Recovery Systems Site to perform a series of remedial activities, which was appealed (the appeal is currently pending).

Because the actual or threatened release of hazardous substances from the site may present an imminent and substantial endangerment to the public health, welfare, or the environment, MDEQ and the EPA have subsequently performed a series of site investigations. These investigations indicate that a number of the tanks and drums used for solvent storage, have leaked and/or are believed vulnerable, and that soil and groundwater contamination attributable to these leaks exists. EPA has provided a temporary alternative potable water supply to those residents with contaminated well water.

Following these investigations, EPA arranged for an ERCS contractor (Four Seasons Industrial Services, Inc.) to inventory, sample, and perform fingerprinting on the waste liquids presently contained in drums and tanks at the site. Most Recently, US EPA negotiated an acceptable AOC with a group of companies alleged to have sent wastes to the site (the PRP group) to perform the following remedial activities: Install a permanent alternative potable water supply for those residents whose wells are or will be contaminated by releases attributable to the site, dispose of the hazardous waste materials presently stored in on-site drums, tanks, and other containers, and complete the preliminary site investigation activities required to define the nature and extent of soil contamination above the water table at the site. These activities will be performed as Phase I of the removal action for this site.

2.2 Existing Analytical Data

Limited analytical data is available for the contents of the liquid storage tanks and drums located at the Enterprise Recovery Systems Site. This data consists of fingerprinting performed by Four Seasons Industrial Services Inc., for U.S. EPA Region

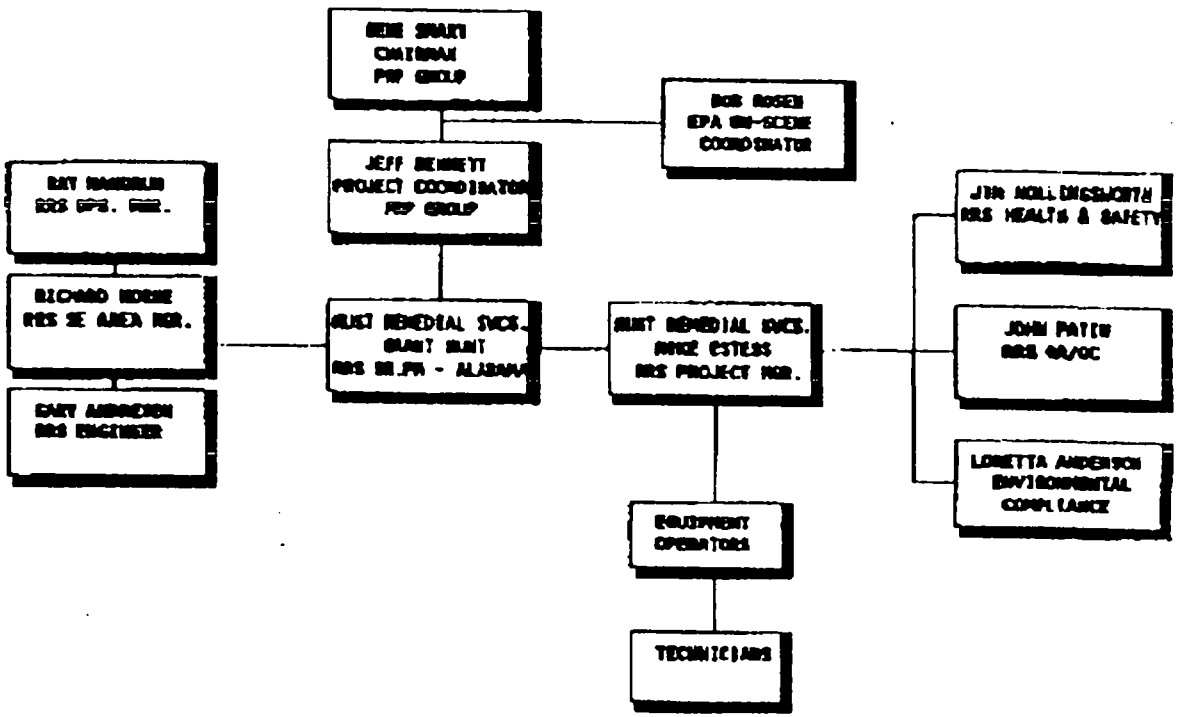
IV, as detailed in the document entitled "Status Report For Enterprise Recovery Systems Site in Byhalia, Mississippi", dated March 3, 1993. This fingerprinting as well as site records and manifests indicate the presence of a variety of hazardous substances in the tanks and drums, including: benzene, xylene, toluene, tetrachloroethylene, trichloroethylene, napthalene, acetone, 1,1,1-trichloroethane, bis(2-ethylhexyl)phthalate, methyl ethyl ketone, ehtanol, methanol, isopropyl alcohol, oils, perchloroethylene, methylene chloride, and chlorinated waste water.

3.0 PROJECT ORGANIZATION

The Enterprise Recovery Systems Site PRP Group has an integrated project management approach to managing Phase I removal Activities. The Project Management and Organization chart on the following page depicts the organization for this project. Professional profiles for these key personnel are contained in Appendix II.

Once mobilization begins the Project Coordinator becomes the primary regulatory contact and will apprise the EPA of the status of the project as it progresses. The Project Coordinator will rely upon contract personnel and other PRP representatives to complete the project.

ENTERPRISE RECOVERY SYSTEM SITE
BYHALIA, MISSISSIPPI
PHASE I - REMOVAL ACTION



PROJECT MANAGEMENT AND ORGANIZATION

4.0 INSTALLATION OF POTABLE WATER SUPPLY

As dictacted by the AOC, the Enterprise Recovery Systems Site PRP Group will provide a permanent alternative potable water supply to those residents whose wells are or will be contaminated by releases from the site. The PRP group will also conduct periodic sampling of residential wells which may become contaminated by releases from the site.

The PRP Group will retain the services of a qualified water treatment company to install a carbon system on the potable water supply line for each household whose well is or will be contaminated by releases from the site. The water treatment company will monitor the post treatment water quality for each of these units, and replace or regenerate the carbon or other system commponents, as necessary, to ensure the residents' water potable water supply meets all applicable drinking water standards. Carbon treatment systems and water quality monitoring will initially be provided for the following households:

Quarterly sampling events will be performed for additional residential wells which may become contaminated by releases from the site. Samples collected during these sampling events will be analyzed to ensure the potable water derived from these wells meets all applicable drinking water standards. Carbon treatment systems will be installed (as detailed previously) in those households where the potable water supply is contaminated by releases from the site. Quarterly sampling events will be performed for the residential wells supplying the following households:

The Enterprise Recovery Systems Site PRP Group will maintain carbon treatment systems and continue to perform sampling events for all appropriate households until such systems and sampling is no longer required to ensure the potable water supply for these households meets all applicable drinking water standards.

5.0 DISPOSAL AND/OR TREATMENT OPERATIONS

5.1 Initial Sampling/Fingerprinting

5.1.1 Sampling Procedure

Appendix II details procedures to allow sampling of the contents of the subject tanks and drums in the most efficient and safe method. The efforts will proceed from the easiest to the most complex and sample tanks in groups, i.e., surface tanks, elevated tanks and drums. There may be a number of tanks or drums which cannot be sampled by methods detailed in this plan due to the solid nature of the residue. Such solids will be sampled by alternate procedures, in consultation with the client. The alternate procedures could include various sampling techniques such as hand augering, brass hammer and chisel, or aluminum tube being driven into the solid material.

A total of 35 above-ground tanks and approximately 300 drums have been identified on the site. Existing analytical data from previous sampling events will be utilized to fingerprint the contents of these tanks and drums when possible. Additional samples will be fingerprinted and/or analyzed to determine waste material's hazard class and compatibilities.

5.1.2 Analytical Screening

Samples will be collected using standard EPA protocols as outlined in USEPA SW-846 "Test Methods for Evaluating Solid Waste", latest edition, chapters 1 and 9. If not already performed, the contents of each tank and drum will be fingerprinted for the following parameters: visual classification, flame ignitability, water reactivity, water solubility, volatile vapor check, oxidizer

test, peroxide test, pH test, sulfide/cyanide test, and "Beisteins" test (to assess if liquid waste is halogenated). In addition, compatibility of various liquid wastes, commingled, will be assessed. Appendix II contains more detail on the testing methods to be used.

5.1.3 Documentation

Drum Identification

All tanks and drums will be marked as they are located with a unique identification number which will allow tracking of the samples and their analytical results back to their specific origin. The drum number will be marked on the top and side of the drum using a paint stick capable of withstanding weather and poor drum condition.

The numbering scheme is simple and controllable. A maximum of 4 digits will be used (0-9999). If additional numbers are necessary, the 4 digits will be preceded by an alphabetic character. This system will permit multiple sampling crews, if necessary, to number independently. Sample identification numbers will be recorded in field log books.

Any identifying characteristics existing on the drum will be noted through use of an Inventory Form and a Drum Tracking Record.

Sample Documentation

Each sample will be labeled immediately after collection. Sample labels will be used to preserve the integrity of the identification from the time it is collected until it is fingerprinted in the field. Gummed paper will be used as official sample tags and will be completed using waterproof, non-erasable ink.

The paper label will carry information as follows:

- Project Number
- Type of Analysis
- Date and Time of Sampling
- Sample type
- Sample Number
- Samplers Signature
- Remarks

Each sample will be recorded on a chain-of-custody record. The identifying code described above will be used on the chain-of-custody form and in the field log book to document that the sample description is identifiable. Chain-of-custody forms will become part of the permanent record of all sample handling. The person collecting the sample will initiate document(s) at the source of the sample and begin the chain-of-custody procedure. Chain-of-custody documentation will include the following applicable data:

- Field sample number, site name, and project number
- Date sample collected
- Sample collected by (signature)
- Date sample submitted for testing
- Description of the sample source of sample itself
- Preservation technique (if any)
- Sample containers (number, type, condition)
- Signature of person relinquishing and obtaining custody

Sampling personnel will be responsible for completing the sample accountability records. Upon each transfer of custody, the person involved will verify transfer of the sample.

5.2 Waste Characterization/Profiling

Once the material contained in the on-site tanks and drums has been sampled and fingerprinted, waste characterization and profiling activities will begin. These activities will consist of four phases, sampling, sample handling, analytical testing, waste profiling.

5.2.1 Sampling Procedure

The samples obtained for characterization purposes will be collected using standard US EPA sampling procedures, as outlined in the attached Quality Assurance and Sampling Plan (Appendix II). Generally, one grab sample will be taken from each of the tanks, and one composite sample from every fifteen to twenty drums containing similar materials will be taken.

5.2.2 Sample Handling

Each grab and composite sample obtained from the tanks and drums will be identified by source (tank or drum I.D.) and it's chain-of-custody will be tracked. Duplicate samples and trip blanks will be utilized to ensure sample integrity. US EPA sample handling protocols will be followed and all procedures documented.

5.2.3 Analytical Testing

Each grab and composite sample will be shipped to a US EPA approved independent testing laboratory. The laboratory will maintain chain-of-custody and QA/QC records for all of the samples, and will perform analytical on a three-day (rush) turn-around basis.

5.2.4 Waste Profiling

Once analytical test results have been received for the waste liquids, the PRP Group will evaluate the potential disposal options available for the material characterized by each sample. A set of waste profiles will be developed for each similar waste stream or to encompass the material of similar disposition. These profiles will be submitted to the proposed disposal facilities for evaluation and approval if the wastes are compatible with the facilities' permits. Once the disposal facilities have approved the waste profiles, the appropriate state agencies will review the profiles. Generally, the state agencies approval follow.

5.3 On-Site Transfer Activities

Once all of the waste materials have been characterized and profiles disclosing their waste constituents have been approved by the appropriate disposal facilities and ADEM, on-site waste liquid & solid transfer activities will be initiated. The following paragraphs describe the personnel and equipment, transfer procedures, and documentation which will be employed during this process.

5.3.1 Personnel and Equipment

Generally, the following personnel and equipment will be utilized to perform waste liquid transfer activities:

- One (1) Project Manager
- Two (2) Field Technicians
- One (1) Vacuum Truck
- One (1) Drum Handler
- Miscellaneous pumps and hoses
- Personnel Protective Equipment

5.3.2 Transfer Procedures

Prior to transferring any liquids, all of the liquids will have been fingerprinted, characterized and categorized for disposal. Liquids will be handled to ensure that only compatible liquids are co-mingled. This will prevent: dilution of liquids with a high BTU content with liquids not suitable for fuels blending, mixing of liquids that are non-hazardous with hazardous liquids, and mixing of reactive liquids.

The transferring of the liquids will begin with the tanks and frac tanks first so that they may be utilized later for consolidating drummed liquids. The tanks and frac tanks will be pumped directly into tanker trucks using a diaphragm pump. Once a tanker is full, it will be manifested and shipped to the appropriate disposal facility.

Once all the tanks and frac tanks are emptied, transfer activities will begin on the drummed liquids. The drums will be pumped into the empty frac tank for ease in transferring to the tanker. This step will be necessary to avoid demurrage on the tanker trucks which could result should the transfer be done directing from drums into the tanker trucks. When the drums are emptied, they will be staged in an area for emptied drums.

During the transfer operation should any liquids escape the tanks, the RRS spill prevention and response plan will be implemented. This procedure is provided in Appendix IV.

5.3.3 Documentation

Documentation will be maintained onsite of all site activities. A daily work sheet will be completed by the Project Manager outlining personnel, equipment, materials, transportation and disposal and any other activities completed each day along with the charges incurred by the client. This document will be presented to the client's onsite representative for verification to facilitate the billing process.

Various logs will also be maintained. A log will be maintained during the transfer activities. Since there is the potential for several different profiles, it will be essential to track the drum and/or tank number and its location. This documentation will include such information as the date, the drum or tank #,

(based on the corresponding number from the initial sampling), the profile #, the tanker identification number, and the approximate quantity of material transferred.

A transportation and disposal log will be maintained to document the date, manifest number, the profile number, the tanker identification and approximate quantity of material being shipped. Also health and safety documentation will be maintained based on the specific health and safety concerns.

5.4 Debris Management Activities

Once the waste materials have been removed from all of the tanks and drums, these containers will be managed as wastes as well. Generally debris management activities will include tank dismantling, drum crushing, and residual sludge handling.

Tanks will be dismantled using hydraulic shears and either decontaminated for disposal as scrap metal, or shipped off-site to be direct landfilled. Tank dismantlement activities will be performed in the drum handling area, when possible to contain any residual liquids or sludges which might spill. Each tank will be checked to ensure an explosive atmosphere does not exist, prior to cutting. If an explosive atmosphere exists, appropriate precautions will be taken. Residual sludges will be consolidated in roll off boxes or drums.

Following dismantlement, tank components will either be moved to a decontamination area for future salvage, or placed in lined steel roll off boxes for disposal. The decontamination area will be located in the drum handling area (in order to utilize the existing containment area), and will include a splash wall constructed of framing lumber and plastic sheeting.

Remaining heavy residues will be scraped from tank components and drummed. all contact surfaces willnext be washed with an appropriate decontamination solution (i.e. sodium hypochlorite), followed by a water rinse. Wash and Rinse waters will be collected and drummed for disposal. All decontaminated surfaces will be wipe sampled and analyzed for residual contaminants in order to verify proper decontamination has been completed.

Once decontaminated, tank components will be transported to a steel recycling facility proper destruction. A certificate of destruction will be obtained for all materials sent to such a recycling facility.

Materials which are not decontaminated for salvage, as well as contaminted sludges and residues will be sampled and shipped to an approved disposal facility.

5.5 Transportation

CWM will provide all transportation equipment and drivers (including qualified sub-haulers as necessary) in strict accordance with all governmental rules, regulations and ordinances. CWM is certified to haul hazardous wastes (EPA ID# ILD099202681) and recognizes EPA's desire to handle waste generated at this site in the safest, most environmentally sound method available.

CWM will develop and utilize a transportation route for the delivery and pick up of material at the site. This transportation route will be developed prior to beginning work at the site. The route will be followed for all transportation of hazardous material (except where alternate routes may be designated by state and local police departments or other governmental agencies in the event of an emergency). Drivers with loads manifested in accordance with D.O.T. regulations will proceed directly to the designated disposal or recovery facility.

Upon arrival at the disposal facility, the manifest and load will be checked and inspected by CWM's receiving staff and chemists for confirmation of conformance with the Generator's Waste Material Profile Sheet on record for that particular waste stream.

Once waste is verified to be conforming and acceptable under the existing approval, it will be off-loaded for disposal or recovery in a manner consistent with current state, local, and EPA regulations. In the event that the waste is found to be non-conforming, the EPA will be notified immediately by the RRS Project Manager and the treatment/disposal options will be discussed.

Subsequent to proper disposal, the manifest will be completed and the appropriate copies returned to the EPA; and other regulatory agencies, as required.

5.6 Disposal

CWM owns and operates the largest network of permitted hazardous waste transportation, treatment, and disposal facilities in the United States. As such, our facilities have extensive experience with a wide range of waste materials both in terms of chemical composition and physical state. Material handling capabilities vary at each location to best address specific waste streams and range from liquid handling capabilities, including drum decanting and bulk tankage, to sludge and solids handling.

CWM will utilize an appropriate CERCLA approved disposal facility. Final acceptance of the specified wastes are subject to approval after receipt of a representative sample and analytical information. It is anticipated that this material will be suitable for the fuels blending operation at the CWM Emelle, Alabama facility with the Federal identification number ALD000622464.

6.0 SITE INVESTIGATION ACTIVITIES

Once the waste materials stored in the on-site tanks and drums, and the tanks and drums have been removed from site and properly disposed of, the Enterprise Recovery Systems Site PRP Group will retain the services of a qualified geotechnical consultant, to perform soil investigation activities to define the nature and extent of soil contamination above the water table at the site. These activities will include: a review of existing data and preparation of a soils investigation plan, implementation of the soils investigation plan, and preparation of a final report.

Because the water table depth is as little as two (2) feet below ground surface in some pieces at the site, the soils investigation will be predominantly based upon surface, and shallow subsurface sampling. Existing data will be used to develop a sampling plan which maximizes the amount of information gathered with each sample. Samples will be planned to verify visual contamination indicators, to identify the historical locations of soil and groundwater contamination sources, and to identify the geometry of present contamination plumes.

Implementation activities will begin with acquisition of a series of surface and shallow soil samples, with "head-space analysis" testing being performed in the field so that "hot spots" can be identified for additional sampling. Additional sampling will be performed based upon the hot spots identified and as requested by EPA. Samples from these activities and select samples from will be sent to a third party laboratory for analysis. Based upon the results of laboratory analytical testing, additional sampling may be performed to further define the nature and extent of soil contamination.

At the completion of site sampling activities, and analytical testing, a comprehensive report summarizing these activities and the detailing the conclusions reached from soil investigation activities.

7.0 REPORTS

While performing the site activities required by the AOC (Phase I of the Removal Action) at the Fuels and Chemicals Site, the PRP Group will submit written progress reports to the US EPA. Generally, three types of reports will be prepared: Daily, Interim, and Completion.

7.1 Daily

Daily Worksheets will be completed to document the site activities performed each day during Phase I of the Removal Action. These worksheets will contain documentation of the personnel and equipment on-site, transportation and disposal activities, and a summary of costs incurred. Supporting data such as manifests, weigh tickets, etc. are attached to the Daily Worksheet when available. Daily Worksheets will not be submitted to US EPA as stand-alone documents, but rather as an appendix to interim progress reports.

7.2 Interim

Interim progress reports will be submitted every thirtieth day following approval of the work plan, until the AOC has terminated. These interim progress reports will summarize the activities performed during the preceding period and forecast upcoming activities and will include sections documenting: issues resolution, analytical data, and anticipated removal activities. Interim progress reports will include Daily Worksheets, drum sampling and identification logs, chain of custody forms, results of analytical testing, manifests, weigh tickets, photographs, etc. as supporting data.

7.3 Completion

A Completion report will be submitted within thirty days following the completion of all removal actions related to the AOC. This report will at a minimum conform to the

requirements set forth in section 300.165 of the NCP entitled "OSC Reports" and with OSWER Directive No. 9360.3-03 entitled "Removal Response Reporting". The completion report will include a good faith estimate of total costs incurred in complying with the AOC, a listing of the quantities and type of materials removed from site, a discussion of the removal and disposal options considered, a listing of the final disposition of the materials, a presentation of the analytical results of all sampling and analysis performed, and accompanying appendices containing supporting documentation. The final report will also contain the certification statement required by the AOG signed by a person who directed the preparation of the report.

8.0 PROJECT SCHEDULE

The Phase I Removal Actions required by the AOG for the Enterprise Recovery System Site are anticipated to be performed over a period of approximately 110 days. The attached Gantt Chart presents a timeline representation of the schedule currently anticipated for the project. The paragraphs which follow describe this schedule in more detail.

Installation of the carbon treatment system to provide potable water to affected households is anticipated to take approximately seven (7) days. During this time additional mobilization and site preparation activities will be performed such as mowing the site.

The fingerprinting, sampling and profiling portion of the project are expected to take approximately 25 days from the date of work plan approval, assuming facility and ADEM approvals can be obtained within 10 days. In order to meet this schedule, existing fingerprints and characterization data must be used when possible so that the tanks and drums can be fingerprinted in approximately 2 days, and characterization/profiling sampling can be accomplished in 5 days with analytical testing performed on a three (3) day turn-around time basis.

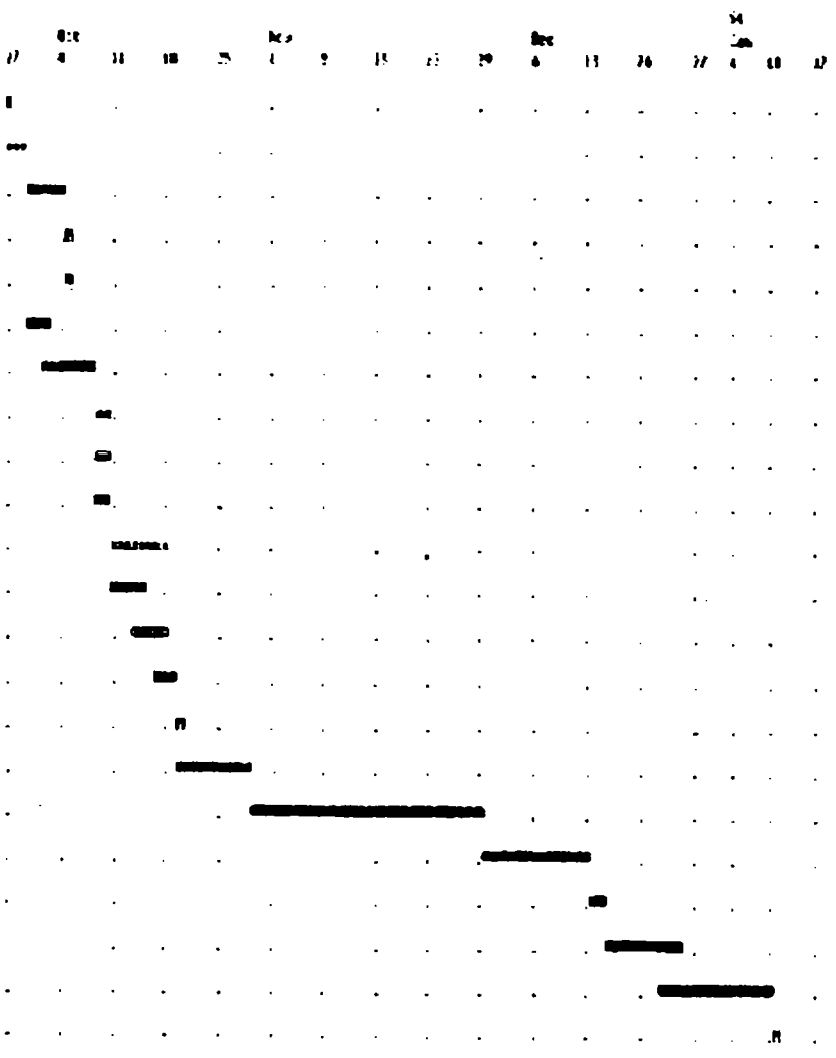
Following these activities, removal, transportation, and disposal activities will commence. It is anticipated that approximately 70 drums may be emptied per work day, and that approximately six (6) 5000 gallon tanker trucks may be loaded per work day. Based on these assumptions, all of the waste materials will be removed from the site and disposed of over a period of approximately 30 days.

Following removal, transportation, and disposal activities, soil investigation activities will be performed. It is anticipated that these activities will take approximately fourteen (14) days.

The final set of activities to be performed as Phase I of the Removal Actions will be the close-out of the project and preperation and submittal of the project completion report. It is anticipated that these activities can be completed in approximately three weeks.

ENTERPRISE RECOVERY SYSTEMS SITE
NEWALLA, MISSISSIPPI

Task Name	Start Date	Duration	End Date
Draft Work Plan Submittal	22-Sep-93	0.0	22-Sep-95
Draft Work Plan Review	22-Sep-93	3.0	29-Sep-95
Draft Work Plan Revision	30-Sep-93	5.0	4-Oct-95
Work Plan Submittal	5-Oct-93	0.0	5-Oct-95
Work Plan Approval	5-Oct-93	1.0	5-Oct-95
Initial Mobilization	30-Sep-93	3.0	2-Oct-95
Install Potable Water	2-Oct-93	2.0	8-Oct-95
Initial Sampling/Fingerprint	9-Oct-93	2.0	10-Oct-95
Sampling	9-Oct-93	2.0	10-Oct-95
Analytical Screening	9-Oct-93	2.0	10-Oct-95
Characterization/Trailing	11-Oct-93	3.0	18-Oct-95
Sampling	11-Oct-93	5.0	15-Oct-95
Analytical Testing	14-Oct-95	5.0	18-Oct-95
GWPS Preparation	17-Oct-93	3.0	19-Oct-93
GWPS Submittals	20-Oct-95	0.0	20-Oct-95
Facility and NHEM Approvals	20-Oct-95	10.0	29-Oct-95
Removal, Transport, Disposal	30-Oct-95	31.0	29-Nov-95
Soil Investigation Activities	30-Nov-95	30.0	13-Dec-95
Demobilization	14-Dec-95	2.0	15-Dec-95
Project Close-Out	16-Dec-95	10.0	25-Dec-95
Final Report Preparation	27-Dec-95	15.0	10-Jan-96
Final Report Submittal	10-Jan-96	0.0	11-Jan-96



Detail Task — Summary Task — Baseline
(Progress) — (Progress) — Conflict
(Slack) — (Slack) — Resource delay
Progress shown Percent Achieved on Actual — Milestone
Scale: 10 hours per character

TIME LINE Gantt Chart Report, Strip 1

Woodward-Clyde Consultants
Engineering & science applied to the earth & its environment

February 1, 1994

Mr. Chris Worrell
Graydon, Head and Ritchey
1900 Fifth Third Center
511 Walnut Street
Cincinnati, Ohio 45202

Re: Sampling and Analysis Plan
Enterprise Recovery Systems Site
Byhalia, Mississippi
WCC File 93B477

Dear Mr. Worrell:

Enclosed is the final Sampling and Analysis Plan for the above-referenced site. Your comments have been incorporated into this document.

Woodward-Clyde Consultants appreciates the opportunity to prepare this document for you. Please contact Andy Eversull at 601/957-7666 or Charles Dartez at 504/751-1873 with your comments.

Very truly yours,

John L Hebert for

Andrew C. Eversull
Senior Project Engineer

Charles B. Dartez
Senior Consulting Professional

CBD:kdl
Enclosure

cc: Mr. Joe Hellmuller
Mr. Jim Enright

93B477/477SAP.CVL ENTERPRS

2822 O'Neal Lane (70816) • P.O. Box 66317 (70896) • Baton Rouge, Louisiana
(504) 751-1873 • Fax (504) 753-3616

FINAL REPORT

SAMPLING AND ANALYSIS PLAN
SOIL CHARACTERIZATION

ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI

Prepared for
Enterprise Recovery Systems Site Group
Byhalia, Mississippi

February 1994

WCC File 93B477

Woodward-Clyde

Woodward-Clyde Consultants
2822 O'Neal Lane (70816)
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Baton Rouge, Louisiana

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1.0
INTRODUCTION

This Sampling and Analysis Plan (SAP) has been prepared by Woodward-Clyde Consultants (WCC) for the Soil Investigation (SI) at the Enterprise Recovery Systems (ERS) site (herein referred to as the "Site"). The Site is located on Cayce Road in Byhalia, Mississippi. The assessment described in this SAP is intended to define the nature and extent of soil contamination above the water table in areas previously identified as contaminated by releases of hazardous substances and to screen soil for contamination at additional locations selected by the U.S. Environmental Protection Agency (EPA). WCC has been retained by the ERS Site Group to conduct this assessment.

The SAP describes the protocols to be followed during implementation of the proposed scope of work for the ERS Site. Section 2.0 of this SAP presents the project background and a brief site description. Section 3.0 describes the scope of work. Section 4.0 describes soil sampling procedures.

2.0
SITE BACKGROUND AND DESCRIPTION

The ERS Site is located at Route 5 Box 287 on Cayce Road, approximately one quarter mile off U.S. Highway 72 just inside the Mississippi State line southeast of Collierville, Tennessee (Figure 1). The Site consist of eight acres of property in the NW 1/4, Section 22, Township 1 South, Range 4 West. Major features at the site during operations included:

- Office Warehouse (50 x 100 feet)
- A diked above-ground tank area with three storage tanks (67 x 20 feet)
- An above-ground storage tank area with 16 tanks (80 x 45 feet)
- The main drum warehouse (70 x 60 feet)
- A small drum warehouse (40 x 30 feet)
- A small surface water retention basin (33 x 16 x 4.5 feet)
- Two unloading paved areas
- Several acres occupied by sparse wooded and grassy zones

Environmental assessments of the soil and groundwater were performed by the EPA, Mississippi Department of Environmental Quality (MDEQ), and several independent engineering firms from December 1989 through March 1993 at the site. These investigations detected concentrations of a number of hazardous substances in the soil and groundwater (Figure 2). As a result of these assessments, EPA has set soil cleanup standards for the following compounds at the site: ethylbenzene, toluene, trichloroethylene, xylene, acetone, methyl ethyl ketone, and 1,1,1 trichloroethane.

3.0
SCOPE OF WORK

3.1 OVERVIEW OF WORK

The purpose of the soil investigation is to define and characterize soil contamination to the first saturated zone or to 15 feet below land surface (bls), whichever is encountered first. Five potential problem areas identified by the EPA's previous investigation or during site removal activity will be assessed. In addition, WCC will collect and analyze by head space analysis 20 soil samples from locations selected by EPA.

The following activities will be performed at the site:

- A reconnaissance of the site will be performed to locate the five previously identified areas, and to identify other potential sampling areas as directed by the EPA.

- The location of the proposed surficial shallow soil samples will be marked prior to sample collection.

- Up to 60 surficial soil samples (from 6 to 12 inches) will be collected with a pre-cleaned stainless auger within the 5 previously identified areas. A head-space analysis will be performed on each sample using an Organic Vapor Analyzer (OVA) to field quantify the presence of VOCs.

- The installation of up to 15 shallow hand auger borings will be performed in those areas exhibiting the highest levels of VOCs. These borings will terminate at the first saturated zone or at 15 feet below grade if a saturated zone is not identified before that depth. Head-space analysis will be performed at 2-foot intervals, or as conditions dictate.

- Collection of soil samples for laboratory analysis in accordance with the guidelines outlined in EPA SW-846, Method 8240 for VOCs. Up to 30 samples may be collected for laboratory analysis. Laboratory analysis will be performed on selected surficial soil samples and soil samples collected from each boring.

- One or more site plans depicting the sample locations and corresponding field OVA head space and laboratory analytical results will be developed.

- A report detailing the activities and findings of this investigation will be developed. Laboratory QA/QC results will also be provided with the report.

A detailed description of the sampling methodologies are discussed in the following sections.

4.0
SOIL SAMPLING PROCEDURES

4.1 SAMPLE COLLECTION

Two types of samples will be collected during this phase of work: (1) surficial soil samples, and (2) subsurface soil samples. The surficial soil samples will be collected from the designated sample locations using either a stainless steel bucket auger or a stainless steel core type sample with a butyrate liner. A core of soil from the surface to 12 inches will be collected at each sample location. If the sample is collected from the bucket auger, the top portion (from 0 to 6 inches) will be discarded. The remaining 6- to 12-inch portions will be processed as follows:

- The sample will be cut in half and the outside of each half will be shaved to negate any influence from the sampling equipment.
- A representative portion of one of the sample halves will be placed promptly in a laboratory sample container for possible laboratory analysis and stored on ice and cooled to 4° C.
- A representative portion of the remaining sample half will be placed in a precleaned one pint mason jar and sealed for head-space analysis.

If the butyrate liner method is used, the core within the liner will be labelled and placed on ice for possible laboratory analysis. The bucket auger will then be used to ream out the hole and the cuttings for that interval prepared for head-space analysis. Head-space analysis of the soil samples will be conducted as follows:

- The soil sample will be sealed in a one-pint mason jar as soon as possible upon extraction.
- The jar will be shaken for approximately five to ten seconds and then allowed to sit for ten minutes before a headspace reading is made.

- Headspace analysis of the sample will be performed with a Foxboro Organic Vapor Analyzer by pushing the OVA probe through the mason jar seal. The probe will remain in the jar until a maximum reading is reached. This reading will be recorded in the log book.

The OVA will be calibrated prior to sampling by using a single known sample of methane-in-air. The OVA will then be zeroed by using a known sample of zero air. The OVA will be zeroed after each sampling event and as the instrument dictates.

WCC will collect up to 60 shallow soil samples for field screening to define the surficial limits of the identified problem areas. These shallow soil samples will be located using a tiered approach (Figure 3) as follows:

- Four surficial samples will be collected in or near each identified area. The four soil samples will be collected and head-spaced using the OVA. This will be the first tier of soil samples collected in the identified area.

- Depending on the OVA head-space results for each identified area, four additional surficial samples may be collected along a second tier outside of the first tier. The distance between tiers will vary depending on the measured soil vapor concentration and visual observation. For example, a first tier sample OVA measurement of 100 ppm may indicate a need for a second tier sample location at 10 to 15 feet away.

- Depending on the OVA results for the second tier, a third tier of sampling may be appropriate based on the above rationale to further define the horizontal extent of the area.

Following the surficial soil sampling, WCC will place three deep hand auger borings in or near each identified area. A precleaned hand-auger will be used at each boring location to obtain the soil samples. A total of 15 borings will be performed at the site with a core type sampler with a butyrate liner, as previously described. These borings will extend no deeper than the first shallow groundwater or to a depth of 15 feet below

land surface (bls), whichever is encountered first. All borings will be visually logged to identify the soil lithology and soil samples will be collected and processed as previously described on 2-foot centers and head-spaced using the OVA. Following the completion of all deep borings, WCC will grout the boring close using a cement bentonite mixture. All cuttings removed from the hole will be containerized for proper disposal.

A minimum of one soil sample from each of these borings will be shipped to the laboratory for analytical analysis in accordance with the guidelines outlined in EPA SW-846, Method 8240 for VOCs. Selection of soil samples to be submitted to the laboratory will be based on the head-space results and/or the proximity of the sample above a water bearing unit. Generally, the soil sample with the highest OVA head-space reading will be submitted to the laboratory. If a soil sample is collected above an identified water-bearing unit, this sample will also be submitted to the laboratory for analysis. If no head-space readings are detected above background, the sample collected near the base of the boring will be submitted to the laboratory. In addition, WCC will be prepared to split all samples identified for laboratory analysis with EPA.

Several soil samples collected with the surficial soil sampling activities will also be submitted to the laboratory to aid in the correlation of the OVA head-space results with the analytical results. Up to 30 soil samples may be submitted for laboratory analysis.

In addition to the sampling described above, WCC will collect and field screen up to 20 additional soil samples from on-site locations selected by the EPA. These samples will be field screened in the same manner as described above.

4.2 SAMPLE ANALYSIS

Samples will be analyzed by Analytical Technologies, Inc. Laboratory of Pensacola, Florida. The analytical method to be used to determine the concentrations of the constituents of concern are outlined in Table 1. The required precision, accuracy, detection limits, and percent recovery specifications (if applicable) are identified by the method listed in Table 1. Precise and well recognized techniques are to be used for the analysis of soil samples.

4.3 DECONTAMINATION PROCEDURES

Sampling equipment used to collect the shallow soil samples (e.g., hand augers, bowls) will be decontaminated prior to and subsequent to sample collection. Decontamination of sampling equipment will occur in the exclusion zone. All sampling equipment will be cleaned between each sample location or at intervals as described below:

- Washing in a phosphate-free detergent solution (Liquinox).
- Rinsing with tap water.
- Rinsing with organic-free water.
- Rinsing twice with methanol.
- Rinsing with organic-free water and allow to air dry as long as possible.
- If organic-free water is not available, allow equipment to air dry as long as possible. Do not rinse with deionized or distilled water.

After decontamination, the sampling equipment will be wrapped in aluminum foil for protection until subsequent use. Following decontamination events, all wash water and disposable personal protection equipment (PPE) will be containerized for proper disposal.

4.4 SAMPLE IDENTIFICATION

Samples will be identified by alpha-numeric code sequence. The first three characters of each sample code will be "ERS" to denote the Enterprise Recovery Systems Site, followed by a number which represents the phase of work. This character group will be followed by a hyphen. The second alpha-numeric sample identification character group will use the following convention:

Code	Identification
SS	Surface soil sample
SB	Soil boring sample
SD	Sediment sample
RS	Rinsate sample
TB	Trip Blank
FB	Field Blank

The above group will be followed by a hyphen. The next three characters are numeric and represent the sample location. These sample numbers will be posted on a site map to identify the sample location.

Final characters may be added to some samples to distinguish the sample type as needed, using the following format:

D	Duplicate sample
S	Split sample
C	Composite sample
G	Grab sample

Following the procedures above for sample identification, the sample identification number for the first round of sampling for a grab, surface soil sample is: ERS1-SS-001G.

A waterproof pen will be used to complete sample labels during sample collection procedures. The completed labels will contain, at a minimum, the following information: project name, site name, sampling personnel, sample identification codes, date and time of sample collection, analyses to be performed, and preservatives (if applicable).

4.5 SAMPLE HANDLING

Subsequent to sampling, all samples will be labelled (Section 4.4) and placed on ice in an ice chest. Samples will be packed to avoid sample container movement or breakage. Prior to shipping, a chain of custody will be completed, placed in a sealable plastic bag, and taped to the inside lid of the ice chest. The chain of custody will contain appropriate sampling information including: project name, site name, sampling personnel, sample identification codes, date and time of sample collection, number of containers for each sample, analyses to be performed, preservatives and any other pertinent information. A copy of the chain-of-custody will be retained for the project files. The ice chest will then be sealed with strapping tape and a custody seal, and shipped for overnight delivery to the designated laboratory.

4.6 QUALITY ASSURANCE/QUALITY CONTROL

In addition to the thirty soil boring samples collected, one duplicate sample, one equipment rinsate sample (one per day), and one trip blank (one per day) will be collected. The following QA/QC samples will be prepared and analyzed for the volatile organics:

- The field duplicate sample is collected to evaluate the overall precision of the field sampling and laboratory analysis, a field duplicate will be collected at one sample location. The duplicate sample will be collected using the same procedures as the original sample. The laboratory will be instructed to analyze the field duplicate sample using the same analytical procedures as the original sample.

- The equipment rinsate sample will be obtained by pouring laboratory reagent-grade water over or through sampling equipment into an appropriate sample container following the decontamination process. The equipment rinsate sample will be used to verify that the sample collection and handling process has not affected the quality of the samples.

- The trip blank is a blank sample consisting of reagent-grade water prepared by the laboratory. The purpose of this blank is to monitor any contaminants that may be transferred during shipment or present in the laboratory equipment or laboratory sample extraction procedures.

4.7 HEALTH AND SAFETY PLAN

A site-specific Health and Safety Plan has been prepared which establishes guidelines and requirements for the safety of field personnel during the field activities at the site. The Health and Safety Plan was developed based upon a review of available site background information and an evaluation of potential hazards, and is in compliance with applicable parts of the Occupational Health and Safety Agency (OSHA) Regulations 29 CFR 1910. All employees and subcontractors of WCC involved in this

project will be required to abide by the provision of the Health and Safety Plan. Employees and subcontractors of WCC involved in this project will be required to abide by the provision of the Health and Safety Plan.

TABLE

TABLE 1
TARGET QUANTITATION LIMITS FOR TCL ORGANIC CONSTITUENTS
VOLATILE ORGANICS
METHOD 8240

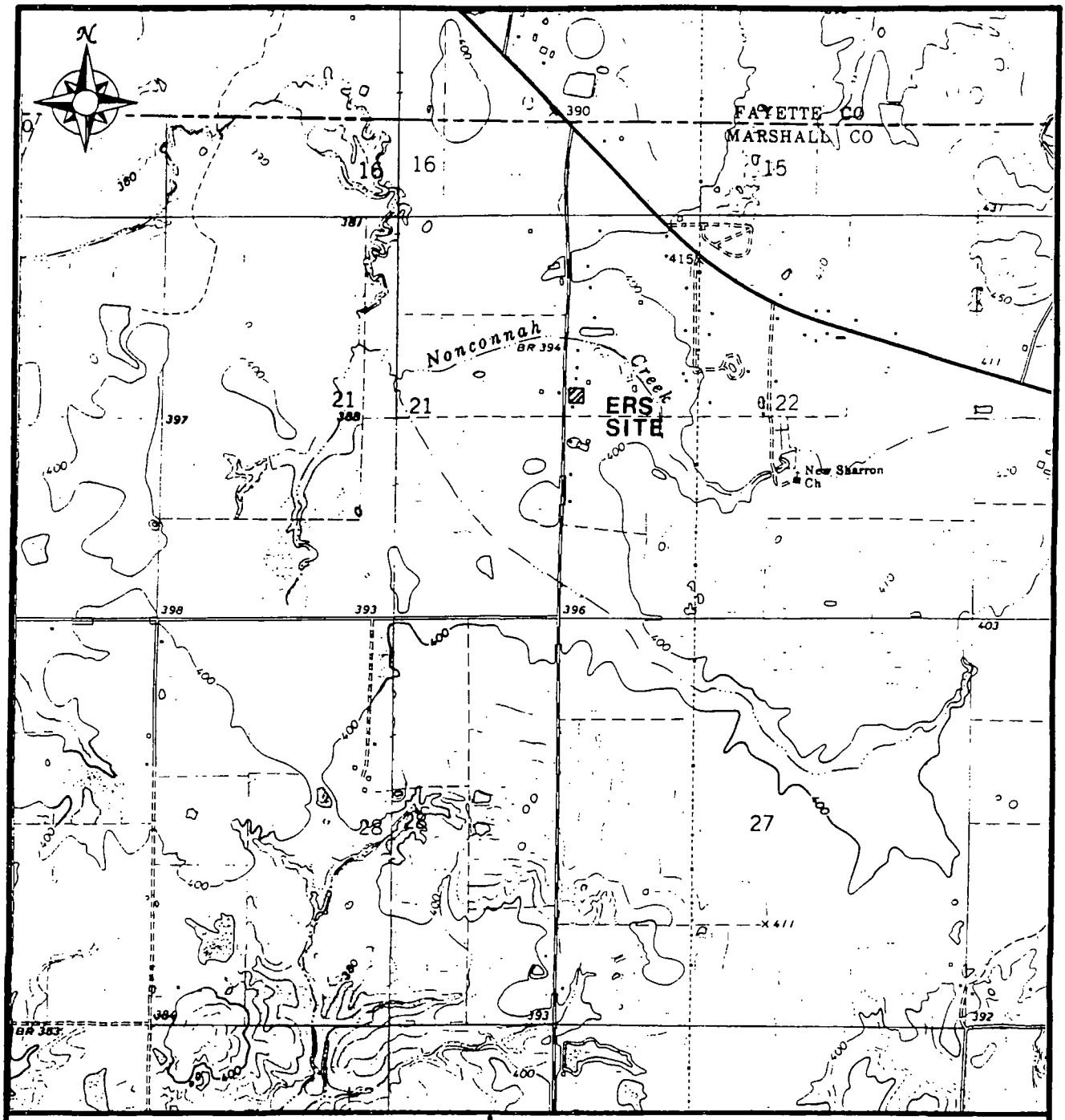
PARAMETERS	AQUEOUS (ug/l)[1]	SOIL (ug/kg)[2]
Acetone	10.0	10.0
Benzene	5.0	5.0
Bromodichloromethane	5.0	5.0
Bromoform	5.0	5.0
Bromomethane	10.0	10.0
2-Butanone (MEK)	10.0	10.0
Carbon disulfide	5.0	5.0
Carbon tetrachloride	5.0	5.0
Chlorobenzene	5.0	5.0
Chloroethane	10.0	10.0
Chloroform	5.0	5.0
Chloromethane	10.0	10.0
Dibromochloromethane	5.0	5.0
1,1 Dichloroethane	5.0	5.0
1,2 Dichloroethane	5.0	5.0
1,1 Dichloroethene	5.0	5.0
1,2 Dichloroethene (total)	5.0	5.0
1,2 Dichloropropane	5.0	5.0
cis-1,3-Dichloropropene	5.0	5.0
trans-1,3-Dichloropropane	5.0	5.0
Ethylbenzene	5.0	5.0
2-Hexanone	10.0	10.0
Methylene chloride	5.0	5.0
4-Methyl-2-pentanone (MIBK)	10.0	10.0
Styrene	5.0	5.0
1,1,2,2-Tetrachloroethane	5.0	5.0
Tetrachloroethene	5.0	5.0
Toluene	5.0	5.0
1,1,1-Trichloroethane	5.0	5.0
1,1,2-Trichloroethane	5.0	5.0
Trichloroethene	5.0	5.0
Vinyl acetate	10.0	10.0
Vinyl chloride	10.0	10.0
Xylenes (total)	5.0	5.0

TABLE 1 (Continued)
TARGET QUANTITATION LIMITS FOR TCL ORGANIC CONSTITUENTS
VOLATILE ORGANICS
METHOD 8240

Note:

[1] Specific quantitation limits are highly matrix dependent. The listed quantitation limits may not always be achievable.
[2] Listed quantitation limits for soils are based on wet weight; actual quantitation limits, based on any weight, will be higher.

FIGURES



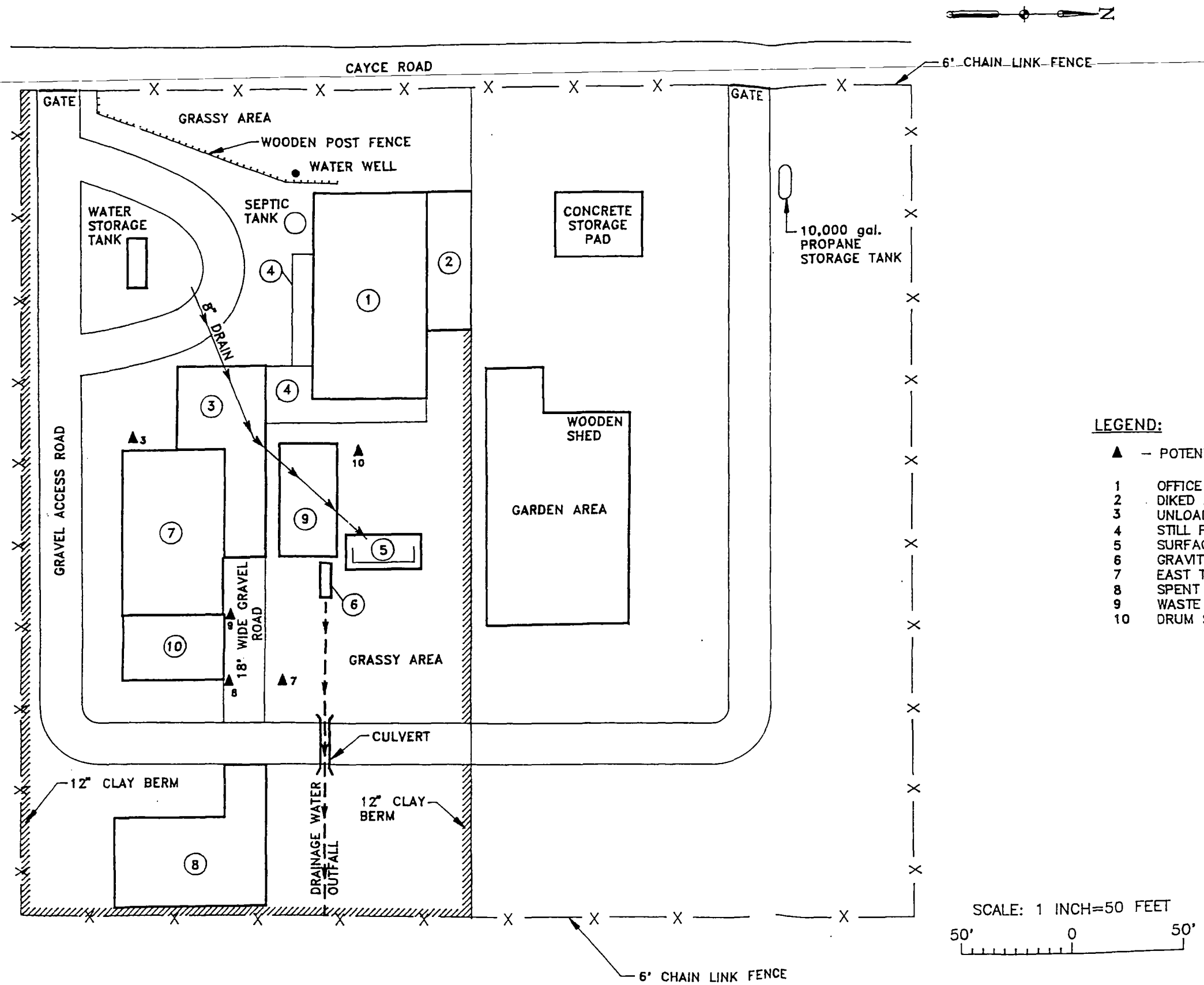
ENTERPRISE RECOVERY SYSTEMS
Route 5, Box 287
Cayce Road
Byhalia, Mississippi

MAP SOURCE
USGS 7.5 Minute Quadrangle
Maps:
Mt. Pleasant, Miss - Tenn 1971
Byhalia NW, Miss - Tenn 1971

SITE LOCATION MAP

WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologist,
and Environmental Scientists
Jackson, Mississippi

DR. BY: ACE	SCALE: 1"=2,000'	PROJ. NO: 93B477
CHK. BY:	DATE: 4/21/95	FIG. NO: 1



LEGEND:

▲ – POTENTIAL PROBLEM AREA

1 OFFICE WAREHOUSE
2 DIKED NORTH TANK
3 UNLOADING AREA
4 STILL PROCESSING AREA
5 SURFACE WATER RETENTION BASIN
6 GRAVITY OIL/WATER SEPARATOR
7 EAST TANK STORAGE
8 SPENT DRUM STORAGE (LINED AND DIKED w/CLAY)
9 WASTE CONTAINER STORAGE AREA
10 DRUM STORAGE AREA

SCALE: 1 INCH=50 FEET

50' 0 50'

DATE	REVISION	DRVN/CHKD

SOIL ASSESSMENT

Woodward-Clyde Consultants
Consulting Engineers, Geologists and Environmental Scientists
Baton Rouge, Louisiana

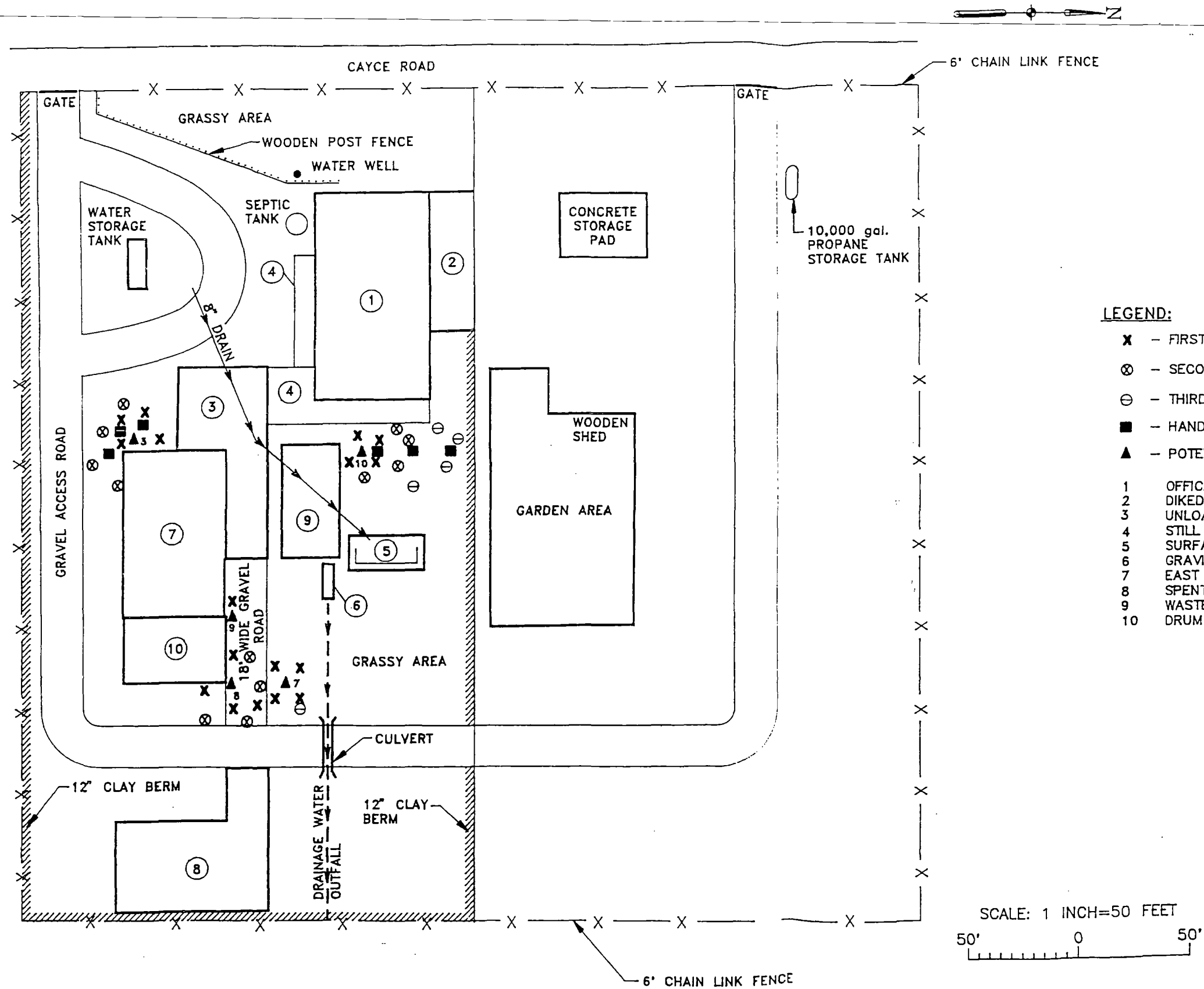
ERS

SCALE:	MADE BY: G. THORNTON	DATE: 1/26/94	FILE NO.
AS SHOWN	CHECKED BY: CBD	DATE: 2/1/94	93B477

POTENTIAL PROBLEM AREA LOCATIONS

FIGURE 2

Location: B.R.,LA File name: K:\DRWG\MISC\JACKSON.DWG Last edited: 02/01/94 @ 13:49



LEGEND:

- X – FIRST TIER
- ⊗ – SECOND TIER
- ⊖ – THIRD TIER
- ■ – HAND AUGER BORING
- ▲ – POTENTIAL PROBLEM AREA

1 OFFICE WAREHOUSE
2 DIKED NORTH TANK
3 UNLOADING AREA
4 STILL PROCESSING AREA
5 SURFACE WATER RETENTION BASIN
6 GRAVITY OIL/WATER SEPARATOR
7 EAST TANK STORAGE
8 SPENT DRUM STORAGE (LINED AND DIKED w/CLAY)
9 WASTE CONTAINER STORAGE AREA
10 DRUM STORAGE AREA

DATE	REVISION	DRWN/CHKD

SOIL ASSESSMENT

Woodward-Clyde Consultants
Consulting Engineers, Geologists and Environmental Scientists
Baton Rouge, Louisiana

ERS

SCALE:	MADE BY: G. THORNTON	DATE: 1/26/94	FILE NO.
AS SHOWN	CHECKED BY: CBD	DATE: 2/1/94	93B477

APPROXIMATE SAMPLE LOCATIONS

FIGURE 3

Location: B.R.,LA File name: K:\DRWG\MISC\JACKSON.DWG Last edited: 02/01/94 @ 13:49

Woodward-Clyde Consultants
Engineering & science applied to the earth & its environment

February 1, 1994

Mr. Chris Worrell
Graydon, Head and Ritchey
1900 Fifth Third Center
511 Walnut Street
Cincinnati, Ohio 45202

Re: Health and Safety Plan
Enterprise Recovery Systems Site
Byhalia, Mississippi
WCC File 93B477

Dear Mr. Worrell:

Enclosed is the final Health and Safety Plan for the above-referenced site. Your comments have been incorporated into this document.

Woodward-Clyde Consultants appreciates the opportunity to prepare this document for you. Please contact Andy Eversull at 601/957-7666 or Charles Dartez at 504/751-1873 with your comments.

Very truly yours,

John L. Hebert for

Andrew C. Eversull
Senior Project Engineer

Charles B. Dartez
Senior Consulting Professional

CBD:kdl
Enclosure

cc: Mr. Joe Hellmuller
Mr. Jim Enright

93B477/477H&S.CVL H&S

2822 O'Neal Lane (70816) • P.O. Box 66317 (70896) • Baton Rouge, Louisiana
(504) 751-1873 • Fax (504) 753-3616

FINAL REPORT

HEALTH AND SAFETY PLAN
SOIL CHARACTERIZATION

ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI

Prepared for
Enterprise Recovery Systems Site Group
Byhalia, Mississippi

February 1994

WCC File 93B477

Woodward-Clyde

Woodward-Clyde Consultants
2822 O'Neal Lane (70816)
P.O. Box 66317 (70896)
Baton Rouge, Louisiana

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LIST OF ATTACHMENT

Attachment 1 Material Safety Data Sheets
Attachment 2 WCC Health and Safety Accident Report Form
Attachment 3 Site Safety Officer Pre-work Checklist
Attachment 4 Site Safety Meeting Report Form
Attachment 5 Emergency Services/Phone Numbers and Route to the Hospital

WOODWARD-CLYDE CONSULTANTS HEALTH AND SAFETY PLAN

1.0 PROJECT IDENTIFICATION

Client:	Enterprise Recovery Systems Site Group
Project:	Phase I Site Characterization
Project Number:	93B477
Dates of Plan:	February 1, 1994
Expiration Date:	December 31, 1994

1.1 HEALTH AND SAFETY PLAN APPROVALS

Client:	Enterprise Recovery Systems Site Group
Project:	Phase I Site Characterization
Project Number:	93B477

John L Hebert for

Charles Self, C.I.H.
Health and Safety Officer
Gulf Coast Operating Unit

2-1-94
Date

Charles Dartez

Charles Dartez
Project Manager

2-1-94
Date

2.0
INTRODUCTION

This Health and Safety Plan establishes guidelines and requirements for the safety of field personnel during the field activities associated with Enterprise Recovery Systems Site Group (ERSSG) at Byhalia, Mississippi. All employees of Woodward-Clyde Consultants (WCC) involved in this project are required to abide by the provisions of this plan. They are required to read this plan and sign the attached Compliance Agreement prior to initiation of any field work.

The health and safety guidelines and requirements presented are based on a review of available information and an evaluation of potential hazards. This plan outlines the health and safety procedures and equipment required for activities at this site to minimize the potential for health risk exposures to field personnel. This plan may be modified by the Project Manager with the written approval of the Corporate Health and Safety Officer in response to additional information obtained regarding the potential hazards at the site to field investigative personnel.

This plan is prepared for the exclusive use of WCC personnel and WCC subcontractors as defined by the work activities in Section 5.0.

3.0
KEY PERSONNEL

Project Manager:	Charles Dartez
Office:	Baton Rouge, Louisiana
Phone:	504/756-1416

For this project, the Project Manager has the following responsibilities:

- To see that the project is performed in a manner consistent with the WCC Health and Safety Program.
- To have an approved Health and Safety Plan prepared and properly implemented for this project.
- To provide the Business Unit Health and Safety Officer with project information related to health and safety matters and to assist the Business Unit Health and Safety Officer in the development of the Health and Safety Plan.
- To implement the Health and Safety Plan.
- To ensure compliance with the Health and Safety Plan by WCC personnel.
- To coordinate with the Business Unit Health and Safety Officer on health and safety matters.
- To review project schedules and budgets.

The Project Manager has the authority to take the following actions:

- To determine matters relating to schedule, cost, and personnel assignments on hazardous waste management projects.
- To temporarily suspend field activities, if the health and safety of personnel are endangered, pending further consideration by the Business Unit Health and Safety Officer.
- To temporarily suspend an individual from field activities for infractions of the Health and Safety Plan, pending further consideration by the Business Unit Health and Safety Officer.

Corporate Health and Safety Officer: Charles Self
Office: Lake Charles, Louisiana
Phone: 318/439-2683

The Corporate Health and Safety Officer has the following responsibilities:

- Direct the implementation of the Health and Safety Program of the operating group and provide recommendations for updating, improving, and/or modifying the program.
- Coordinate health and safety activities of the operating units in the operating group.
- Determine the need for project Health and Safety Plans.
- Review and approve Health and Safety Plans.
- Monitor implementation of Health and Safety Plans.
- Investigate and report incidents and/or accidents to the Corporate Health and Safety Administrator in Plymouth Meeting, PA.
- Monitor and implement employee health and safety training in the Gulf Coast Operating Group.
- Determine whether an accidental exposure or injury merits a change in the affected individual's work assignments and whether changes in work practices are required.
- Coordinate operating units with regard to health and safety equipment needs.

The Corporate Safety Officer has the following authorities:

- Approve or disapprove Health and Safety Plans.
- Direct operating unit Health and Safety Officers/Coordinators.

- Access project files.
- Direct changes in personnel work practices to improve health and safety of employees involved in hazardous waste management projects.
- Remove individuals from projects, if their conduct jeopardizes the health and safety of themselves or that of co-workers.
- Suspend work on any project that jeopardizes the health and safety of personnel involved.

Site Safety Officer:
Office:
Phone:

The Site Safety Officer has the following responsibilities:

- To direct health and safety activities on-site.
- To report safety-related incidents or accidents to the Project Manager and Business Unit Health and Safety Officer.
- To assist the Project Manager in all aspects of implementing the Health and Safety Plan.
- To maintain health and safety equipment on-site, as specified in the Health and Safety Plan.
- To perform health and safety activities on-site, as specified in the Health and Safety Plan, and report results to the Project Manager and the Business Unit Health and Safety Officer.

The Site Safety Officer has the authority to take the following actions:

- To temporarily suspend field activities, if the health and safety of personnel are endangered, pending further consideration by the Business Unit Health and Safety Officer.
- To temporarily suspend an individual from field activities for infractions of the Health and Safety Plan, pending further consideration by the Business Unit Health and Safety Officer.

4.0
SITE DESCRIPTION AND HISTORY

The Enterprise Recovery Systems (ERS) site is located on Cayce Road in Byhalia, Mississippi. Commercial solvent recycling was performed on the site from 1978 to 1991.

Major features at the site during solvent recycling operations included:

- A combination office and warehouse building
- An above-ground tank area with three (3) storage tanks
- A second above-ground tank area with sixteen (16) storage tanks
- Two drum staging areas
- A small settling pond
- Several acres of wooded and grassy land (the site is located on a eight (8) acre parcel of land)

Based on environmental assessments of the soil and groundwater at the site from December 1989 through July 1992, the constituents of concern detected at the site include volatile compounds such as ethylbenzene, styrene, methylene chloride, toluene, trichloroethylene, xylene, acetone, methyl ethyl ketone, methyl isobutyl ketone, and 1,1,1-trichloroethane, and dichloromethane. Inorganics such as lead, chromium, and manganese were also detected.

5.0
GENERAL DESCRIPTION OF WORK

5.1 PURPOSE

This scope of work is to focus on the four to five potential problem areas identified during the 1993 EPA soil assessment. The targeting of these areas will be to define the nature and extent of soil contamination above the water table to a depth of 15 feet bls. The sampling and analytical methods utilized in the investigation will be described in the WCC Sampling and Analysis Plan for the site.

Phase I of the proposed scope of work will consist of a data/records review, development of a sampling and analysis plan, and the development of this Health and Safety Plan. Phase II will be the implementation of the Sampling and Analysis Plan, and the ensuing report documenting the field activities and sample results will comprise Phase III.

Field activities will consist of the collection and field screening of shallow soil samples and soil borings. Selected soil samples will be shipped to a laboratory for analysis after being properly manifested.

5.2 DESCRIPTION OF WORK ACTIVITIES

Soil Sampling

WCC will collect up to 60 shallow soil samples for field screening to define the ____ limits of the previously identified areas. Following this task, shallow soil borings will be installed within or near the identified areas. These borings will extend no deeper than the first shallow groundwater or to a depth of 15 feet below land surface (bls), whichever is encountered first. Up to 15 shallow soil borings may be drilled during this phase of work and up to 30 samples may be collected for laboratory analysis in accordance with EPA SW846 Method 8240 for volatile organics.

In addition to the sampling described above, WCC will collect and field screen up to 20 additional soil samples from on-site locations selected by the EPA. These samples will be field screened in the same manner as described above.

Any work other than the work described above will require an addendum to this Health and Safety Plan.

6.0 HAZARD ASSESSMENT

Potential hazards at the site must be identified and addressed to ensure the safety of personnel working on the site. The following potential hazards have been identified and addressed:

- Physical hazards
- Biological hazards
  - Insects
  - Snakes
  - Poison ivy/poison oak
- Chemical hazards

6.1 PHYSICAL HAZARDS

There is no risk of physical injury resulting from contact with heavy equipment at the site. Use of steel toe boots and hard hats will be required when in the vicinity of heavy equipment, if it is brought to the site. Personnel should be cognizant of the fact that when protective equipment such as respirators, gloves, and protective clothing is worn, visibility, hearing and manual dexterity are impaired.

Always use proper procedures when lifting even relatively light objects. Before lifting, approach the object and bend at the knees, keeping your back vertical and unarched. Obtain a firm footing and grasp the object firmly with both hands. Stand slowly and squarely while keeping your back vertical and unarched. Perform the lifting with the muscles in your legs, not your lower back.

When hand augering, be sure that the feet are in a stable position and on a non slick surface. When possible use two persons. Additionally, a twisting motion with the upper body should be minimized when hand augering.

6.2 BIOLOGICAL HAZARDS

Mosquitos and ticks may be prevalent at the site. Field personnel are encouraged if warranted to use insect repellents before venturing on-site and to check for ticks when showering. Poisonous snakes may also be present at the site. To avoid snake bites, personnel should check for snakes before walking through grassy or debris-strewn areas. Also, field personnel should always wear proper foot wear when working on-site to protect feet and lower leg areas. Poison ivy and poison oak are potential skin irritant sources which may be encountered when clearing brush. Tape long sleeves to work

gloves, and tape pant legs to boots. This will provide protection from contacting these plants. If contact with either of these plants is suspected, the affected area should be cleansed immediately with soap and water. Further complications, such as development of a rash/blister formation, fever, etc. may require medical attention. Fire ant mounds may also be present at the site. Field personnel should avoid direct contact with these mounds. A first aid kit with insect bite treatment will be available for use at the site.

6.3 CHEMICAL HAZARDS

Chemical exposure resulting in personal injury can occur through four routes: inhalation, ingestion, skin contact and eye contact. To prevent ingestion of chemicals, eating, smoking, and drinking are prohibited on the site. In addition, all field personnel will be required to decontaminate themselves before leaving the site.

Chemically resistant clothing, eye protection and foot wear must be worn by all workers who could be exposed to ethylbenzene, styrene, methylene chloride, toluene, trichloroethylene, xylene, acetone, methyl ethyl ketone, methy isobutyl ketone, 1,1 dichcloroethane, 1,1,1 trichloroethane, dichloromethane, lead, chromium, and manganese. Anyone experiencing skin or eye irritation should report immediately to the Site Safety Officer for attention. The Site Safety Officer should take steps to see that similar exposures do not occur.

The risk of chemical inhalation at the site is considered to be of high probability due to the high vapor pressure of the identified chemicals. However, personnel performing field operations should position themselves upwind during field activity to minimize their exposure to these solvents and wear safety glasses to protect against eye contact. Potential hazards may be minimized by protecting against exposures to toxic materials by utilizing appropriate personal protective equipment and careful monitoring of the breathing zones and working areas. See Attachment 1 for Material Safety Data Sheets (MSDS).

7.1 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment required to prevent contact with known or anticipated chemical hazards has been divided into four categories by the United States Environmental Protection Agency (USEPA), Levels A, B, C and D, according to the degree of protection afforded. A description of the categories expected to be utilized during this project are provided below:

All personnel engaged in activity at the site will be provided with the following basic personnel protective equipment:

- Safety glasses with side shields
- Hard hat
- Boots, butyl or PVC
- Chemical splash goggles

Personnel shall wear the first three items at all times except in designated locations, and shall have the goggles readily available at all times.

Level B protection should be employed when the highest level of respiratory protection is needed and a moderate level of skin protection is required. The equipment for Level B protection includes:

- Pressure-demand, self-contained breathing apparatus (SCBA) or pressure-demand supplied air respirator with escape SCBA (including five-minute bottle)(MSHA/NIOSH-approved)
- Chemical-resistant clothing with hood; disposable Tyvek Saranex, polycoated or equal
- Gloves (outer), chemical-resistant; Pioneer A-14 (Nitrile)
- Gloves (inner), chemical-resistant
- Boots (rubber-type), chemical-resistant
- Two-way, intrinsically-safe radio

Level C protection is selected when the types of airborne substance(s) is known, the concentration(s) is measured and the criteria for using air purifying respirators are met. Level C protective equipment include:

- Full-face, air-purifying, cartridge-equipped (organic vapor/acid gas and particulate) respirator (MSHA/NIOSH-approved)
- Chemical-resistant clothing with hood; disposable Tyvek Saranex, polycoated or equal
- Gloves (outer), chemical-resistant; Pioneer A-14 (Nitrile)

- Gloves (inner), chemical-resistant; Playtex PVC or equal
- Boots, chemical-resistant; butyl or PVC

Modified Level D provides for dermal protection, but no respiratory protection.

- Chemical-resistant clothing; Tyvek Saranex, polycoated or equal
- Gloves, chemical-resistant; Pioneer A-14 (Nitrile)
- Gloves, inner-latex or equal
- Face shields where splash hazards are present
- Boots (rubber type), chemical-resistant
- Safety glasses with side shields
- Hard hat
- Ear plugs
- Full face air purifying respirators equipped with organic vapor/HEPA cartridges are required when decontaminating equipment involving steam cleaning or high pressure washers.

Level D protection includes:

- Gloves (outer), chemical-resistant; Pioneer A-14 (Nitrile)
- Gloves (inner), chemical-resistant
- Boots (rubber type), chemical-resistant

The protection levels which have been selected are based on the hazard assessment (Section 6.0) and may be revised based on field measurements during construction. Field activities for this project, require modified Level D protection.

Coveralls, boots, hard hats and safety glasses or goggles must be worn by all personnel while on-site. Inner latex gloves with outer nitrile gloves will be worn during all sampling activities when handling samples and waste. Ear plugs must be worn in areas with elevated noise levels.

Tyvek coveralls will be discarded after each use or when they become worn or punctured. Suit materials offer resistant to all known or anticipated chemicals at the site. If the disposable protective suits appear to be deteriorating under chemical action, the Site Safety Officer should be notified. In addition to the personal protective equipment listed above, general safety equipment available for use will include a first aid kit, portable eye wash and fire extinguisher. Modified Level D provides for dermal protection, but no respiratory protection. When respiration protection is needed, protection should be upgraded to Level C.

7.2 WORK ZONES

During activities conducted in Modified Level D personal protective equipment the setup of work zones as defined by the U.S. EPA will be required. Management of this project shall be conducted in such a manner which will restrict access to the job site by unauthorized personnel. If contaminated soils are encountered, the Site Safety Officer

will make provisions for a personnel decontamination area. This area shall be so designed with entry and exit points clearly marked. A personnel contamination reduction zone (CRZ), which will provide a transition zone between the contaminated and clean areas, will be setup by the Site Safety Officer.

A work zone will be established around the boring and drilling equipment for each boring activity.

One additional work zone will be set up for decontaminating equipment.

7.3 DECONTAMINATION PROCEDURES

7.3.1 Personnel Decontamination

Adequate personnel decontamination stations will be established to remove contaminants from the field crew's personal protective equipment or hands. Each site characterization project will have a minimum of one personnel decontamination station, strategically located in the work area or in the contamination reduction zone, if applicable. The decontamination station will have at least the following items:

- An adequate-sized plastic sheet for flooring
- Boot wash equipment
  - Water/liquinox solution container
  - Rinse water container
  - Long-handed plastic brush

- Waste container (for disposal protective equipment, tape, etc.)
- Hand wash equipment
- Water/liquinox solution container
- Rinse water contaminant
- Paper towels

Personnel will be decontaminated by the following procedure:

- Boot wash/rinse utilizing brush for contamination removal in waste container
- Removal of disposal suit
- Removal of gloves
- Hand wash/rinse/drying

7.3.2 Sampling Equipment Decontamination

Sampling equipment used to collect the shallow soil samples (e.g., hand augers, bowls) will be decontaminated prior to and subsequent to sample collection. Decontamination of sampling equipment will occur in the exclusion zone. All sampling equipment will be cleaned between each sample location or at intervals as described below:

- Washing in a phosphate-free detergent solution.
- Rinsing with tap water.
- Rinsing with deionized water.
- Rinsing twice with methanol
- Rinsing with organic-free water and allow to air dry as long as possible.
- If organic-free water is not available, allow equipment to air dry as long as possible. Do not rinse with deionized or distilled water.

After decontamination, the sampling equipment will be wrapped in aluminum foil for protection until subsequent use.

7.3.3 Disposal of Waste

All waste from decontamination procedures (e.g., disposable suits, tape, wash/rinse solutions, gloves, etc.) will be contained on-site in 55-gallon drums. Soil samples and soil cuttings collected on-site in conjunction with the assessment activities will also be contained on-site in 55 gallon drums and labelled for proper disposal.

7.4 MEDICAL EXAMINATION

Before beginning any of the field or laboratory activities described in Section 5.0, all WCC personnel must take an annual, WCC-approved medical examination as part of WCC's medical surveillance program.

7.5 SAFETY TRAINING DOCUMENTATION

Prior to commencing any of the field activities defined in Section 5.0, all WCC personnel and subcontractors working on-site will supply certificate or equivalent, attesting to completing 40 hours of training as required by OSHA, in 29 CFR 1910.120, to the Site Safety Officer. Site supervisors will be required to supply documentation indicating that an additional 8 hours of training has been completed. Escorted visitors may be allowed in a defined area without 40 hours training at the discretion of the WCC Site Safety Officer and the WCC project supervisor.

Documentation concerning respirator fit testing, in accordance with OSHA, 29 CFR 1910.134 shall be required of any WCC employee wearing a respirator.

Site specific training will address:

- General site safety (slips, trips, falls)
- Description of site activities
- Required personal protective equipment
- Decontamination
- Work zone procedures (if necessary)
- Emergency procedures
- Chemical hazards present or those expected to be present. MSDS's will be provided for identification of chemicals. At the site safety plan

review meeting, the MSDS's will be reviewed and all workers are expected to understand the hazards of the listed chemicals.

A morning meeting will be held by the Site Safety Officer to address hazards associated with the day's planned activities. The meeting will be documented on the form found in Attachment 1.

7.6 COMPLIANCE AGREEMENT

The Project Manager and the Site Safety Officer will hold meetings with all WCC field personnel and subcontractor personnel before work begins. During the meeting, all personnel will be provided with a copy of this safety plan; the plan will be reviewed and discussed and any questions will be answered. Signed Compliance Agreement Forms (Section 12.0 of this Health and Safety Plan) will be collected by the Site Safety Officer and filed by the Project Manager. Only individuals who have submitted signed forms will be allowed to work on the site.

7.7 PROJECT MANAGER NOTIFICATION

All assigned field personnel must be approved by the Project Manager or his designated representative before working on the site. The "buddy system" will be used, which means that at least two members of the field crew must be on the site whenever work is performed. Personnel must be in visual contact with each other or carry two-way radios at all times.

7.8 PROJECT SAFETY LOG

A project safety log will be used to record the names, entry and exit dates and times of all WCC and subcontractor personnel and of project site visitors; accidents, injuries, and illnesses; incidence of safety infractions by field personnel; air quality and personal exposure monitoring data; and other information related to safety matters. All accidents, illnesses or other incidents shall be reported immediately to the WCC Project Manager, and the Safety Coordinator and subsequently documented for filing on the HS-502 Incident Report Form attached as Attachment 2.

7.9 PROHIBITIONS

- Smoking, eating, drinking, chewing gum or tobacco, storing food or food containers shall not be permitted on the work site. Good personal hygiene should be practiced by field personnel to avoid ingestion of contaminants or spread of contaminated materials.

- Ignition of flammable liquids within, on, or through improvised heating devices or space heaters.

- Approach or entry into areas or spaces where toxic or explosive concentrations of gases or dust may exist without proper equipment available to enable safe entry.

- Conduct of on-site operations without proper notification and communication.

7.10 SITE SAFETY MEETINGS

Daily safety meetings will be held by the Site Safety Officer during all site characterization activities to review and plan the specific health and safety aspects of work scheduled for that day. Attachment 3 contains a safety officer pre-work checklist and Attachment 4 contains a site safety meeting report form which should be reviewed daily or as often as necessary.

8.0 AIR QUALITY MONITORING

The primary goal of on-site air quality monitoring will be compliance with the specified contaminant action levels. The secondary goal will be documentation of personal exposures as required by OSHA 1910.120.

8.1 AIR QUALITY SURVEY

An OVA shall be used while conducting sampling to characterize volatile organic compounds (VOCs) on-site. Worker breathing zone monitoring for VOCs will be conducted periodically throughout sampling activities using the organic vapor analyzer (OVA). The OVA readings will be used in conjunction with information about known or suspected contaminants at the site to determine what level of protection is required. In the OVA survey mode, the following guidelines will be used:

TABLE 8-1

INSTRUMENTS USED	CONTAMINANTS MONITORED	ACTION LEVEL (ppm above background)	MINIMUM LEVEL OF PROTECTION
Organic Vapor Analyzer	Organic Vapors	> 50	Evacuate
		1 - 50	C
		< 1	D

8.2 PERSONNEL EXPOSURE MONITORING

The OSHA regulations for Hazardous Waste Workers (1910.120) states in Section (h) that, "Those closest to the source of contaminant generation, shall receive personal air monitoring sufficient to characterize employee exposure."

During boring activities at the site, personnel exposure monitoring will be performed utilizing an OVA. The OVA Action levels for this monitoring are listed listed on Table 8-1.

9.1 ANALYTICAL LABORATORY

Analysis of all samples from the site will be handled by an approved laboratory that has been selected by WCC. WCC performs a detailed audit on all laboratories used. The analytical laboratory will be notified if samples are hazardous.

The directions to the hospital are as follows:

> Travel North on Cayce Road to Highway 72. Turn left on Highway 72 and travel North to Poplar Avenue (Memphis, Tennessee). Turn left on Poplar Avenue, travel approximately ten miles, hospital is on the left (7691 Poplar Avenue).

The list of emergency services must either be posted on-site or carried by all field personnel. Attachment 5 contains the following emergency information and directions to the hospital for posting purposes.

Emergency Service	Location	Telephone
Emergency Number	Holly Springs, Mississippi	601-851-7600
Fire Department	Holly Springs, Mississippi	601-851-7600
Police Department	Holly Springs, Mississippi	601-851-7600
Ambulance	Holly Springs, Mississippi	601-851-7600
Hospital	Memphis, Tennessee	901-754-6418
Poison Control Center	Holly Springs, Mississippi	601-851-7600
WCC Physician	Greaney Medical, Inc.	714-535-8221

Illness, injuries, and accidents that might occur must be attended to immediately in the following manner:

- Remove the injured or exposed person(s) from immediate danger.
- Render FIRST AID if necessary. Decontaminate affected personnel, if necessary.
- Report the accident to the Health and Safety Officer immediately. Form HS-502 (Attachment 2) must be completed within 24 hours of any accident and forwarded to the Corporate Health and Safety Officer.
- Develop procedures, in accordance with the Health and Safety Officer, Site Safety Officer, and Project Manager to prevent a recurrence.

11.1 PROJECT PERSONNEL

WCC personnel authorized to work on this project and enter the site are:

Project Manager	Charles Dartez
Corporate Health and Safety Officer	Charles Self
Assistant Project Manager	Andy Eversull
Site Manager	
Site Safety Officer	
Sampling Personnel	James Rayburn
	Scott Hassler
	Steve Krul
	Nelson Morvant
	Victor Perez

11.2 PROJECT SAFETY PERSONNEL

Personnel responsible for implementing this Safety Plan are the Project Manager and Site Safety Officer. Specific responsibilities and authority for all accountable WCC personnel are listed in Section 3.0 of this plan.

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, Grant Hunt (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

Signature

12-12-94
Date

Firm: Rust Remedial Services

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, GREG GILLASPY (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

Signature

12-12-94
Date

Firm: RUST

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, Andy Eversull (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

Andrew C. Eversull — 12/12/94

Signature — Date

Firm: Woodward-Clyde

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, John McLemore (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

John McLemore
Signature

12-12-94
Date

Firm: Woodward-Clyde Consultants

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, _____ (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

_____ _____

Signature Date

Firm:_____

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, _____ (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

_____ _____

Signature Date

Firm:_____

12.0
SAFETY PLAN COMPLIANCE AGREEMENT

I, _____ (print name), have received a copy of the Safety Plan for Enterprise Recovery Systems Site of Byhalia, Mississippi. I have read the plan, understand it, and agree to comply with all of its provisions. I understand that I could be prohibited from working on the project for violating any of the safety requirements specified in the plan.

Signed:

_____ _____

Signature Date

Firm:_____

ATTACHMENT 1

MATERIAL SAFETY DATA SHEETS

Material Safety Data Sheet

from Genium's Reference Collection
Genium Publishing Corporation
1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8855

GENIUM PUBLISHING CORP.

No. 300

ACETONE
(Revision E)
Issued: September 1985
Revised: November 1988

SECTION 1. MATERIAL IDENTIFICATION

27

Material Name: ACETONE

Description (Origin/Uses): Used as a solvent for fats, oils, waxes, resins, rubber, plastics, varnishes, and rubber cements; also used in the manufacture of methyl isobutyl ketone, mesityl oxide, acetic acid, diacetone alcohol, chloroform, iodoform, bromoform, explosives; rayon, photographic films, and isoprene. Used to store acetylene gas. Widely used in the chemical process industry (CPI).

Other Designations: Dimethylformaldehyde; Dimethylketal; Dimethyl Ketone; Ketone Propane; Pyroacetic Acid; Pyroacetic Ether; C_3H_6O; CAS No. 0067-64-1

Manufacturer: Contact your supplier or distributor. Consult the latest edition of the *Chemicalweek Buyers' Guide* (Genium ref. 73) for a list of suppliers.

NFPA: 3 / 1 / 0 / -

HMIS			
H	1	R	1
F	3	I	1
R	0	S	2
PPG*		K	4

*See sect. 8

SECTION 2. INGREDIENTS AND HAZARDS

	%	EXPOSURE LIMITS
Acetone, CAS No. 0067-64-1	Ca 100	**OSHA PELs** 8-Hr TWA: 750 ppm, 1800 mg/m³ STEL: 1000 ppm, 2400 mg/m³ **ACGIH TLVs, 1988-89** TLV-TWA: 750 ppm, 1780 mg/m³ TVL-STEL: 1000 ppm, 2375 mg/m³ **Toxicity Data*** Man, Inhalation, TD_{Lo}: 440 µg/m³ (6 Mins) Man, Inhalation, TD_{Lo}: 10 mg/m³ (6 Hrs)

*See NIOSH, *RTECS* (AL3150000), for additional data with references to reproductive, mutagenic, and irritative effects.

SECTION 3. PHYSICAL DATA

Boiling Point: 134°F (56°C)
Melting Point: -137°F (-94°C)
Vapor Density (Air = 1): 2
Vapor Pressure: 180 Torrs at 68°F (20°C)
Evaporation Rate: Faster than That of *n*-Butyl Acetate

Molecular Weight: 58 Grams/Mole
Solubility in Water (%): Complete
Specific Gravity (H_2O = 1): 0.778 at 77°F (25°C)
% Volatile by Volume: 100

Appearance and Odor: A clear, colorless, highly flammable, volatile liquid with a characteristic, pleasant, sweetish odor.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point: 1.4°F (-17°C) CC	Autoignition Temperature: 869°F (465°C)	LEL: 2.9% v/v	UEL: 12.8% v/v

Extinguishing Media: Use "alcohol" foam, dry chemical, or carbon dioxide. Use a blanketing effect to smother flames. Use water spray to reduce the rate of burning and to cool containers. Water will probably not be effective in directly extinguishing an acetone fire.

Unusual Fire or Explosion Hazards: Acetone vapor is heavier than air and may travel a considerable distance to a low-lying source of ignition and flash back.

Special Fire-fighting Procedures: Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode.

SECTION 5. REACTIVITY DATA

Stability/Polymerization: Acetone is stable in closed containers during routine operations. Hazardous polymerization cannot occur.

Chemical Incompatibilities: Acetone can react dangerously with strong oxidizing agents such as nitrates, perchlorates, permanganates, and concentrated sulfuric acid; chromic anhydride; chromyl chloride; hydrogen peroxide; hexachloromelamine; nitrosyl chloride; permonosulfuric acid; mixtures of sulfuric acid and nitric acid; mixtures of nitric acid and acetic acid; and potassium *tert*-butoxide.

Conditions to Avoid: Do not expose acetone to sources of ignition and incompatible chemicals.

Hazardous Products of Decomposition: Carbon monoxide and carbon dioxide can be produced during acetone fires.

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SECTION 6. HEALTH HAZARD INFORMATION

Carcinogenicity: Acetone is not listed as a carcinogen by the NTP, IARC, or OSHA.

Summary of Risks: Inhalation of high concentrations of acetone vapor can cause dryness of the mouth and throat; dizziness, nausea, incoordination, slurred speech, drowsiness, and, in severe exposures, coma. Inhalation of small quantities of acetone vapor for an extended period causes irritation of the respiratory tract, coughing, and headache. Prolonged or repeated skin contact with acetone has a defatting effect causing dryness, irritation, and mild dermatitis. Under routine operating conditions the amount of acetone absorbed through the skin is small. Ingestion of acetone may cause irritation of the gastrointestinal tract and narcosis. Acetone acts primarily as a depressant to the central nervous system (CNS) when exposures are severe or prolonged. **Medical Conditions Aggravated by Long-Term Exposure:** None reported. **Target Organs:** Skin, eyes, respiratory system, and CNS. **Primary Entry:** Inhalation, skin contact. **Acute Effects:** See Summary of Risks, above. **Chronic Effects:** None reported. **FIRST AID: Eyes.** Immediately flush eyes, including under the eyelids, gently but thoroughly with flooding amounts of running water for at least 15 minutes. **Skin.** Rinse the affected area with flooding amounts of water, then wash it with soap and water. **Inhalation.** Remove the exposed person to fresh air; restore and/or support his or her breathing as needed. Have qualified medical personnel administer oxygen as required. Monitor the exposed person for symptoms of depression of the CNS such as incoordination and drowsiness. **Ingestion.** Unlikely.* If a small amount is ingested, dilute it slowly with 1 to 2 glasses of water or milk. **Get medical help (in plant, paramedic, community) for all exposures.** Seek prompt medical assistance for further treatment, observation, and support after first aid. ***Note to Physician:** Treatment for accidental ingestion of a small amount of acetone is unnecessary. If a large amount has been ingested, administer a charcoal slurry, either aqueous or mixed with a saline cathartic or sorbital.

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill/Leak: Notify safety personnel, evacuate unnecessary personnel, eliminate all sources of ignition immediately, and provide adequate ventilation. Cleanup personnel need protection against this liquid's contact with skin or eyes as well as inhalation of its vapor *(see sect. 8). Contain large spills and collect waste or absorb it with an inert material such as sand, earth, or vermiculite. Use nonsparking* tools to place waste liquid or absorbent into closable containers for disposal. Keep waste out of sewers, watersheds, and waterways.
Waste Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow Federal, state, and local regulations. Consider saving the waste hydrochloric acid for use as a neutralizing agent during cleanup operations of basic materials.

OSHA Designations
Listed as an Air Contaminant (29 CFR 1910.1000 Subpart Z).
EPA Designations (40 CFR 302.4)
RCRA Hazardous Waste, No. U002
CERCLA Hazardous Substance, Reportable Quantity: 5000 lbs (2270 kg), per the Resource Conservation and Recovery Act, § 3001.

SECTION 8. SPECIAL PROTECTION INFORMATION

Goggles: Always wear protective eyeglasses or chemical safety goggles. Where splashing is possible, wear a full face shield. Follow OSHA eye- and face-protection regulations (29 CFR 1910.133). **Respirator:** Use a NIOSH-approved respirator per Genium reference 88 for the maximum-use concentrations and/or the exposure limits cited in section 2. Follow OSHA respirator regulations (29 CFR 1910.134). For emergency or nonroutine operations (spills or cleaning reactor vessels and storage tanks), wear an SCBA. **Warning:** Air-purifying respirators will *not* protect workers in oxygen-deficient atmospheres. **Other:** Wear impervious butyl or natural rubber gloves, boots, aprons, and gauntlets, etc., to prevent prolonged or repeated contact with this material. **Ventilation:** Install and operate general and local maximum, explosion-proof ventilation systems powerful enough to maintain airborne levels of acetone below the OSHA PEL standard cited in section 2. Local exhaust ventilation is preferred because it prevents dispersion of the contaminant into the general work area by eliminating it at its source. Consult the latest edition of Genium reference 103 for detailed recommendations. **Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work areas. **Contaminated Equipment:** Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. Do *not* wear contact lenses in any work area. Remove contaminated clothing and launder it before wearing it again; clean this material from your shoes and equipment. **Other:** Automatic sprinkler systems for fire protection are desirable in work areas. **Comments:** Practice good personal hygiene; always wash thoroughly after using this material. Keep it off your clothing and equipment. Avoid transferring it from your hands to your mouth while eating, drinking, or smoking. Do *not* eat, drink, or smoke in any work area. Do not inhale acetone vapor.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Storage/Segregation: Store acetone in closed containers (carbon steel is recommended) in a cool, dry, well-ventilated area away from sources of ignition and strong oxidizers. Protect containers from physical damage. **Engineering Controls:** Make sure all engineering systems (production, transportation) are of maximum explosion-proof design. Electrically ground and bond all containers and pipelines, etc., used in shipping, transferring, reacting, production, and sampling operations to prevent generating static sparks. **Other Precautions:** Use labeled safety cans when handling small amounts of acetone. Acetone presents a dangerous fire hazard; perform all work operations involving it carefully and in a way that will prevent exposing the liquid or its vapor to sources of ignition.

Transportation Data (49 CFR 172.101-2)

DOT Shipping Name: Acetone	IMO Hazard Class: 3.1
DOT Hazard Class: Flammable Liquid	IMO Label: Flammable Liquid
ID No. UN1090	IMDG Packaging Group: II
DOT Label: Flammable Liquid	

References: 1, 26, 38, 84-94, 100, 116, 117, 120, 122.

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Prepared by PJ Igoe, BS
Industrial Hygiene Review: DJ Wilson, CIH
Medical Review: MJ Hardies, MD

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DATE: 3/88

CHEMICAL DATA SHEET

I. Chemical/Compound Name: Ethyl benzene
   A. Synonyms: Phenylethane, ethylbenzol
   B. CAS #: 100-41-6

II. Physical Characteristics

   A. X Liquid ___ Solid ___ Powder X Gas
   B. Color Colorless
   C. Odor Aromatic
   D. LEL 1.0 % Flash Pt. 59°F
   E. Boiling Point 277 °F Melting Point 139°F
      Ionization Potential 8.76 eV
   F. Other

III. Recommended Air Purifying Cartridge:

   ___ Dusts, Fumes, Mists
   X Organic Vapors
   ___ HEPA
   ___ Ammonia/Amines
   ___ Acid Gases
   ___ Pesticides
   ___ Air Purifying is Inappropriate
   ___ Other

IV. Health Hazards Data

   A. Routes of Entry: X Inhalation ___ Skin Absorption ___ Ingestion
   B. OSHA Listed Carcinogen: X No ___ Suspect ___ Yes
   C. Sensitizer: ___ No ___ No Data X Suspect ___ Yes
   D. Acute Toxicity:
      Eye Contact Irritant, lacrimation immediate and severe at high levels
      Skin Contact Dermatitis
      Inhalation Headaches, dizziness, sense of constriction of chest, nose and throat irritant, vertigo
   E. Chronic Toxicity:
      Target Organs Eyes, upper respiratory system, skin, CNS
      Long-Term Effects Narcosis, coma

V. Exposure Limits
   A. OSHA PEL 100 ppm (435 mg/m^3) TWA
   B. ACGIH TLV 100 ppm (TWA)
   C. IDLH 2000 ppm TWA
   D. NIOSH REL
   E. STEL 125 ppm (545 mg/m^3) TWA

VI. Other Pertinent Information/Special Precautions:
   The TLV established to prevent eye irritation (1977)

Material Safety Data Sheet

from Genium's Reference Collection
Genium Publishing Corporation
1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8855

GENIUM PUBLISHING CORP.

No. 310
METHYLENE CHLORIDE
(Revision F)

Issued: September 1985
Revised: November 1988

SECTION 1. MATERIAL IDENTIFICATION 27

Material Name: METHYLENE CHLORIDE

Description (Origin/Uses): Used widely in paint removers, as a solvent for plastics, as a degreasing agent, in propellant mixtures for aerosol sprays, and as a blowing agent in foams.

Other Designations: Dichloromethane; Freon 30®; Methane Dichloride; Methylene Bichloride; Methylene Dichloride; CH_2Cl_2; CAS No. 0075-09-2

Manufacturer: Contact your supplier or distributor. Consult the latest edition of the *Chemicalweek Buyers' Guide* (Genium ref. 73) for a list of suppliers.

HMIS
H 2 R 1
F 1 I 3
R 0 S 3
PPG* K 1
*See sect. 8

NFPA 1 2 0 -

SECTION 2. INGREDIENTS AND HAZARDS/EXPOSURE LIMITS

Methylene Chloride, ca 100%

OSHA PEL
8-Hour TWA: 500 ppm
Ceiling: 1000 ppm Acceptable Maximum Peak above the Ceiling: 2000 ppm for 5 Minutes in Any 2-Hour Period

ACGIH TLV, 1988-89
TLV-TWA: 50 ppm, 175 mg/m³
(Adopted 1988-89)

Toxicity Data*
Rat, Oral, LD_{50}: 2136 mg/kg
Human, Inhalation, TC_{Lo}: 500 ppm (8 Hours)

*See NIOSH, *RTECS* (PA8050000), for additional data with references to irritative, reproductive, mutagenic, and tumorigenic effects.

SECTION 3. PHYSICAL DATA

Boiling Point: 103.55°F (39.75°C) at 76 Torrs
Melting Point: -142°F (-96.7°C)
Vapor Density (Air = 1): 2.9
Vapor Pressure: 440 Torrs at 77°F (25°C)
Molecular Weight: 84.94 Grams/Mole
Solubility in Water (%): 1% by Weight
Specific Gravity (H_2O = 1): 1.3255 at 68°F (20°C)
% Volatile by Volume: Ca 100

Appearance and Odor: A clear, colorless, volatile liquid; distinctive, penetrating, ethereal odor. The odor will not serve as a useful warning property because concentrations of 100 ppm are not easily perceptible. Most persons can detect this odor at above 300 ppm.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point*	Autoignition Temperature: 1033°F (556°C)	LEL: 12% v/v	UEL: 19% v/v

Extinguishing Media: *Methylene chloride is not flammable under ordinary conditions. However, flammable vapor-air mixtures can form at approximately 212°F (100°C). Use water spray to cool fire-exposed containers and to flush spills away from exposures. Use extinguishing agents that will put out the surrounding fire. **Unusual Fire or Explosion Hazards:** Methylene chloride vapor is heavier than air and may collect and concentrate in low-lying, confined spaces. The high vapor pressure of methylene chloride means that when it is spilled, its vapor concentration in air can increase rapidly. If this vapor is heated, an explosion hazard is associated with the vapor-air mixture. Containers of this material may rupture violently if they are involved in fires. **Special Fire-fighting Procedures:** Wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in the pressure-demand or positive-pressure mode.

SECTION 5. REACTIVITY DATA

Stability/Polymerization: Methylene chloride is stable in closed containers during routine operations. Hazardous polymerization cannot occur. **Chemical Incompatibilities:** Methylene chloride can react dangerously with nitrogen tetroxide, liquid oxygen, potassium, sodium, sodium-potassium alloys, lithium, potassium hydroxide with N-methyl-N-nitroso urea, potassium *t*-butoxide, and finely powdered aluminum and magnesium. **Conditions to Avoid:** Avoid all exposure to sources of ignition, heat, and incompatible chemicals. Prolonged exposure to water may cause hydrolysis to highly corrosive hydrochloric acid when the temperature is above 140°F (60°C). In oxygen-enriched atmospheres or when heated (>212°F [100°C]), methylene chloride vapor can be readily ignited. **Hazardous Products of Decomposition:** Exposure to high temperature (from open flame, hot surfaces, uninsulated steam lines, welding arcs, etc.) can produce toxic and corrosive thermal-oxidative products of decomposition such as hydrogen chloride, carbon monoxide, and even small quantities of phosgene gas, which is extremely poisonous.

SECTION 6. HEALTH HAZARD INFORMATION

Carcinogenicity: Methylene chloride is listed as a suspected human carcinogen by the ACGIH (which classifies it as a group A2 carcinogen). **Summary of Risks:** Accidental contact of liquid methylene chloride with skin or eyes causes painful irritation and possible burns if not promptly removed. Exposure by way of contaminated gloves, clothing, or paint remover formulations can produce these same irritant effects. Long-term exposure to mild or moderate doses of methylene chloride may cause a delayed (24 to 48 hours) onset of dizziness, headache, mental confusion, slurred speech, double vision, and sleeplessness. Medical recovery can be slow. Overexposure to methylene chloride can cause elevated levels of carboxy hemoglobin in the blood (this same effect results from overexposure to carbon monoxide). **Medical Conditions Aggravated by Long-Term Exposure:** None reported. **Target Organs:** Skin, eyes, respiratory system, CNS, liver, kidneys, and blood. **Primary Entry:** Inhalation, skin contact/absorption. **Acute Effects:** Headache, giddiness, stupor, irritability, fatigue, tingling in the limbs, and narcosis that is not usually fatal if the exposure is terminated before anesthetic death occurs. **Chronic Effects:** The ACGIH classification of this material as a suspected human carcinogen implies that cancer is a possible effect of chronic exposure to methylene chloride. **FIRST AID:** Eyes. Immediately flush eyes, including under the eyelids, gently but thoroughly with

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SECTION 6. HEALTH HAZARD INFORMATION, cont.

flooding amounts of running water for at least 15 minutes. **Skin.** Rinse the affected area with flooding amounts of water and then wash it with soap and water. **Inhalation.** Remove the exposed person to fresh air; restore and/or support his or her breathing as needed. Have qualified medical personnel administer oxygen as required. **Note to Attending Physician:** Do not administer adrenalin. **Ingestion.** Unlikely. Should this type of exposure occur, do not induce vomiting because of the danger of aspiration. If spontaneous vomiting should occur, position the exposed person's head below his or her trunk to resist aspiration. **Get medical help (in plant, paramedic, community) for all exposures.** Seek prompt medical assistance for further treatment, observation, and support after first aid. **Note to Physician:** Absorbed methylene chloride is stored in body fat and metabolizes to carbon monoxide. This produced carbon monoxide increases and sustains carboxyhemoglobin levels in the blood, which concommitantly reduces the oxygen-carrying capacity of the blood. NIOSH advises preplacement and annual medical exams that emphasize liver, kidney, eye, skin, CNS, and respiratory system functions and a complete blood count. Simultaneous exposure to tobacco smoke, alcohol, and carbon monoxide, along with heavy manual labor, increases the body burden of a worker as well as the toxic hazards of the methylene chloride. In significant exposures, serum methylene chloride levels are of no clinical importance. Neurologic and hepatic status as well as carboxy hemoglobin should be monitored.

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill/Leak: Notify safety personnel, evacuate unnecessary personnel, eliminate all sources of ignition immediately, and provide adequate explosion-proof ventilation. Cleanup personnel need protection against this liquid's contact with the skin or eyes as well as inhalation of its vapor. Contain large spills and collect waste or absorb it with an inert material such as sand, earth, or vermiculite. Use nonsparking tools to place waste liquid or absorbent into closable containers for disposal. Keep waste out of sewers, watersheds, and waterways. **Waste Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow Federal, state, and local regulations.

OSHA Designations
Listed as an Air Contaminant (29 CFR 1910.1000 Subpart Z).
EPA Designations (40 CFR 302.4)
RCRA Hazardous Waste, NO. U080
CERCLA Hazardous Substance, Reportable Quantity: 1000 lbs (454 kg), per the Clean Water Act (CWA), § 307 (a), and the Resource Conservation and Recovery Act (RCRA), § 3001.

SECTION 8. SPECIAL PROTECTION INFORMATION

Goggles: Always wear protective eyeglasses or chemical safety goggles. Where splashing is possible, wear a full face shield. Follow OSHA eye- and face-protection regulations (29 CFR 1910.133). **Respirator:** Use a NIOSH-approved respirator per Genium reference 88 for the maximum-use concentrations and/or exposure limits cited in section 2. Follow OSHA respirator regulations (29 CFR 1910.134). For emergency or nonroutine operations (spills or cleaning reactor vessels and storage tanks), wear an SCBA. **Warning:** Air-purifying respirators will *not* protect workers in oxygen-deficient atmospheres. **Other:** Wear impervious neoprene, PVA, or Viton gloves, boots, aprons, and gauntlets, etc., to prevent any skin contact with liquid methylene chloride. **Ventilation:** Install and operate general and local maximum, explosion-proof ventilation systems powerful enough to maintain airborne levels of acetone below the exposure limits cited in section 2. Local exhaust ventilation is preferred because it prevents dispersion of the contaminant into the general work area by eliminating it at its source. Consult the latest edition of Genium reference 103 for detailed recommendations. Floor or sump ventilation may be necessary. **Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work areas. **Contaminated Equipment:** Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them. Do *not* wear contact lenses in any work area. Remove contaminated clothing and launder it before wearing it again; clean this material from shoes and equipment. **Other:** Because the health effects of carbon monoxide and methylene chloride are additive (see sect. 6), workplaces should be equipped with automatic sensing equipment that identifies workroom atmospheric levels of both of these materials. **Comments:** Practice good personal hygiene; always wash thoroughly after using this material and before eating, drinking, smoking, using the toilet, or applying cosmetics. Keep it off your clothing and equipment. Avoid transferring it from your hands to your mouth while eating, drinking, or smoking. Do *not* eat, drink, or smoke in any work area. Do not inhale methylene chloride vapor.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Storage/Segregation: Store methylene chloride in closed, moisture-proof containers in a cool, dry, well-ventilated area away from sources of ignition, strong oxidizers, caustics, and incompatible chemicals (see sect. 5). Protect containers from physical damage. **Special Handling/Storage:** Prevent moist air from entering storage containers. Provide ventilation at the floor level in storage areas because methylene chloride vapor is denser than air. Installation of a dryer and a safety seal on each tank is recommended. Aluminum is not recommended for use as a storage material; appropriate storage materials include galvanized iron, black iron, or steel. **Engineering Controls:** Make sure all engineering systems (production, transportation) are of maximum explosion-proof design. Electrically ground and bond all containers and pipelines used in shipping, transferring, reacting, production, and sampling operations to prevent generating static sparks.

Transportation Data (49 CFR 172.101-2)
DOT Shipping Name: Dichloromethane *or* Methylene Chloride
DOT Hazard Class: ORM-A
ID No. UN1593
DOT Packaging Requirements: 49 CFR 173.605
DOT Packaging Exceptions: 49 CFR 173.505

IMO Shipping Name: Dichloromethane
IMO Hazard Class: 6.1
IMO Label: Saint Andrew's Cross (X)*
IMDG Packaging Group: III

*Harmful-Stow away from Foodstuffs.

References: 1, 26, 38, 84-94, 100, 116, 117, 120, 122.

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Prepared by PJ Igoe, BS
Industrial Hygiene Review: DJ Wilson, CIH
Medical Review: MJ Hardies, MD

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Material Safety Data Sheet

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GENIUM PUBLISHING CORP.

No. 303
METHYL ETHYL KETONE
(Revision C)

Issued: September 1979
Revised: March 1986

SECTION 1. MATERIAL IDENTIFICATION 20

MATERIAL NAME: METHYL ETHYL KETONE

OTHER DESIGNATIONS: MEK, Butanone, 2-Butanone, Ethyl Methyl Ketone, $CH_3COCH_2CH_3$, ASTM D740, CAS #0078-93-3

MANUFACTURER/SUPPLIER: Available from many suppliers, including:
Ashland Chemical Company, Industrial Chemicals & Solvents Div., PO Box 2219, Columbus, OH 43216;
Telephone: (614) 889-3844

HMIS
H: 1
F: 3
R: 1
PPE*
*See sect. 8

SECTION 2. INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Methyl Ethyl Ketone; (C_4H_8O)	ca 100	8-hr TWA 200 ppm* or 590 mg/m^3
		Human, Inhalation TCLo: 100 ppm/5 min.
* Current OSHA PEL and ACGIH (1985-86) TLV. NIOSH (1978) proposed a 10-hr TWA of 200 ppm.		Rat, Oral, LD_{50}: 2.7 g/kg
		Rabbit, Skin, LD_{50}: 13 g/kg

SECTION 3. PHYSICAL DATA

Boiling Point, 1 atm ... 176°F (80°C)
Vapor Pressure @ 20°C ... 72
Vapor Density (Air = 1) ... 2.5
Viscosity @ 25°C, cp ... 0.40
Solubility in Water @ 20°C, wt. % ... 27.1

Specific Gravity (20/4°C) ... 0.805
Volatiles, vol. % ... ca 100
Evaporation Rate (BuAc = 1) ... 5.7
Freezing Point ... -122.8°F (-86°C)
Molecular Weight ... 72.12

Appearance and odor: Colorless liquid with a moderately sharp, fragrant, mintlike odor. Unfatigued, odor recognition threshold (100% of test panel) is 6-10 ppm.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air % by Vol.	LOWER	UPPER
20°F (-6.7°C) CC	960°F (516°C)		1.8	10.0

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, alcohol foam, water spray. Use water spray to disperse vapors and to flush spills away from exposures. A stream of water can scatter flames. Water may be ineffective in extinguishing fire but should be used to help control fire and keep fire-exposed containers cool. Methyl ethyl ketone is a dangerous fire hazard and a moderate explosion hazard when exposed to heat or flame. Vapors can flow along surfaces to a distant ignition source and flash back.

Fire fighters should wear self-contained breathing apparatus in enclosed areas.

SECTION 5. REACTIVITY DATA

Methyl ethyl ketone is a stable material in closed containers at room temperature under normal storage and handling conditions. It does not polymerize.

This material is an OSHA Class IB Flammable Liquid. It is incompatible with oxidizing agents that can cause spontaneous ignition and violent reaction. Ignition is caused by reaction with potassium t-butoxide.

Thermal-oxidative degradation products can include carbon monoxide, carbon dioxide, and various hydrocarbons.

MEK can attack many plastics, resins, and rubber.

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SECTION 6. HEALTH HAZARD INFORMATION | TLV

Methyl ethyl ketone is not listed as a carcinogen by the NTP, IARC, or OSHA. Inhalation of methyl ethyl ketone vapors can irritate the eyes, nose, and respiratory tract. Exposure to high concentrations will produce headache; dizziness; and, in extreme cases, unconsciousness. It can have a narcotic effect; however, its irritancy will often preclude exposure to narcotic concentrations. Prolonged or repeated skin contact may cause drying, cracking, irritation, and dermatitis. Eye contact may cause irritation and burning sensations. Ingestion can irritate the digestive tract; ingestion of several ounces can cause narcosis and acidosis.**

FIRST AID: SKIN CONTACT: Wash area of contact with soap and water. Remove contaminated clothing immediately. EYE CONTACT: Immediately wash with plenty of water, including under the eyelids. If irritation persists, get medical attention. INHALATION: Remove victim to fresh air. If required, restore breathing. Keep warm and at rest. Get immediate medical attention! INGESTION: If victim is conscious and medical help is not readily available, give him 3 glasses of water or milk to drink to induce vomiting. Get medical help as soon as possible* with special attention to acidosis.**

* GET MEDICAL ASSISTANCE = In plant, paramedic, community. Get medical help for further treatment, observation, and support after first aid, if indicated.

** P.G. Kopelman, "Severe Metabollic Acidosis After Ingestion of Butanone," *Brit. Med. J.* 286 (1986):21

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel and implement containment procedures. Remove all sources of heat or ignition. Provide optimum (explosion-proof) ventilation.

Cleanup personnel should use protection against inhalation of vapors and contact with liquid. Use foam to control vapors. Contain spills using absorbent material (dry sand or vermiculite). Use nonsparking tools. Mix well and place in appropriate container for disposal. Flush trace residues with much water. Do not flush to sewers or open waterways.

DISPOSAL: Waste may be burned in an approved incinerator or disposed of by a licensed disposal firm. Follow Federal, state, and local regulations.

EPA Hazardous Waste No. U159 (40 CFR 261); the primary hazardous properties of MEK are ignitability and toxicity (40 CFR 261.33).

SECTION 8. SPECIAL PROTECTION INFORMATION

Provide general and local exhaust fume ventilation to met TLV requirements. Exhaust hoods should have a minimum velocity of 100 lfm (linear feet per minute). Exhaust fans and other electrical services must be of explosion-proof construction.

For emergency and nonroutine work above the TLV an approved, full-facepiece, organic-vapor, canister gas mask is recommended; but for unknown concentrations or those above or about 3000 ppm, self-contained or air-supplied respirators (positive pressure) are needed.

Use chemical safety goggles where liquid contact with the eyes is possible. Do not use contact lenses when working with solvents; soft lenses may absorb irritants and all lenses concentrate them. Use impervious gloves. Where splashing may occur, use a face shield, apron, and other protective clothing as needed to prevent skin contact. An eyewash station must be available near the workplace. A safety shower is desirable when large amounts of this material are used. Methyl n-butyl ketone has caused neurotoxic effects, and studies have shown that MEK may trigger these effects. (K. Saida, et al., *J. Neuropathology and Exp. Neurology* 35 [May 1976]: 207).

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Store in a clean, cool, well-ventilated area away from heat, ignition, and oxidizing agents. Containers should be electrically interconnected and grounded for liquid transfers to prevent static sparks. Storage and use areas should be No Smoking areas. Use nonsparking tools. Small amounts should be handled in approved safety cans with proper labeling. Emptied containers may retain hazardous product residues (vapor or liquid). Electrical services must meet code requirements.

Avoid skin and eye contact. Avoid breathing vapors. Do not ingest. Avoid contact with copper or copper-bearing materials. Wash thoroughly after handling.

DOT Classification: Flammable Liquid ID No.: UN1193 Label: Flammable Liquid

Data Source(s) Code: 1-9, 12, 14, 19-21, 23, 26, 27, 34, 38, 47, 82, 84. CK

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Approvals Joseph O. Racco, 11/86.

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GENIUM PUBLISHING CORP.

No. 304
METHYL ISOBUTYL KETONE
(Revision C)

Issued: September 1979
Revised: March 1986

SECTION 1. MATERIAL IDENTIFICATION

20

MATERIAL NAME: METHYL ISOBUTYL KETONE

OTHER DESIGNATIONS: MIBK, Hexone, 4-Methyl-2-pentanone, Methyl i-Butyl Ketone, Isobutyl Methyl Ketone, $CH_3COCH_2CH(CH_3)_2$, ASTM D1153, CAS #0108-10-1.

MANUFACTURER/SUPPLIER: Available from many suppliers, including:
JT Baker, 222 Red School Lane, Phillipsburgh, NJ 08865; Telephone: (201) 859-2151

HMIS
H: 1
F: 3
R: 0
PPE*
*See sect. 8

SECTION 2. INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Methyl Isobutyl Ketone ($C_6H_{12}O$)	ca 100	8-hr TWA 100 ppm* or 410 mg/m^3
		Human, Inhalation, TCLo: 200 ppm (Irritation)
		Rat, Oral, LD_{50}: 2.08 g/kg
		Rat, Inhalation, LCLo: 4000 ppm/15 min.

* Current OSHA PEL. ACGIH (1985-86) TLV is 50 ppm or 205 mg/m^3.

SECTION 3. PHYSICAL DATA

Boiling Point, 1 atm ... 241°F (116°C)
Vapor Pressure @ 20°C, mm Hg ... 16
Vapor Density (Air = 1) ... 3.5
Solubility in Water @ 20°C, wt. % ... 1.91

Specific Gravity, 20/20°C ... 0.80
Volatiles, % ... ca 100
Evaporation Rate (BuAc = 1) ... 1.62
Melting Point ... -119°F (-84°C)
Molecular Weight ... 100.18

Appearance and odor: Colorless, mobile liquid with a sharp, mintlike odor. Unfatigued odor recognition threshold (100% test panel) is 0.3 to 0.5 ppm. Distinct odor at 15 ppm.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	LOWER	UPPER
73°F (22.8°C) TCC	860°F (460°C)	% by Vol.	1.4	7.5

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, or foam. Use water with caution. Use water spray to cool fire-exposed containers and surrounding combustibles. Use of a solid stream of water can scatter and spread flames to other areas. (This material is lighter than water and only slightly soluble in water.)
Vapors are heavier than air and can flow along surfaces to distant ignition sources and flash back. Methyl isobutyl ketone is a flammable liquid that can form explosive mixtures with air when heated.

Fire fighters should use self-contained breathing apparatus and fully protective clothing.

SECTION 5. REACTIVITY DATA

Methyl isobutyl ketone is a stable material in closed containers at room temperature under normal storage and handling conditions. It does not polymerize.
This material is an OSHA class IC flammable liquid. It is incompatible with strong oxidizing agents that can cause spontaneous ignition and violent reaction. It ignites on reaction with potassium t-butoxide.
It is a solvent capable of attacking some plastics, resins, and rubbers.
Products of thermal-oxidative degradation of this material can include carbon monoxide and carbon dioxide.
Measurement of its flash point is needed to classify this borderline material as either a class IB or a class IC flammable liquid.

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SECTION 6. HEALTH HAZARD INFORMATION | TLV

Methyl isobutyl ketone is not listed as a carcinogen by the NTP, IARC, or OSHA.
This material can irritate the eyes, respiratory tract, and skin. Exposure to high concentrations of this material may cause nausea, headaches, dizziness, and unconsciousness. Skin contact may cause defatting and irritation. Eye contact is irritating. Ingestion causes irritation and a burning sensation to the upper digestive tract. The material is a depressant of the central nervous system.

FIRST AID:

EYE CONTACT: Flush thoroughly with running water (including under eyelids) for 15 minutes.
SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water.
INHALATION: Remove to fresh air.
INGESTION: Get medical help!*

* GET MEDICAL ASSISTANCE = In plant, paramedic, community. Seek medical assistance for further treatment, observation, and support, as indicated..

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel of major spills. Provide optimum explosion-proof ventilation. Remove sources of ignition. Provide cleanup personnel with protection against contact with liquid and inhalation of vapors.

Absorb small spills on paper and allow waste to evaporate in an exhaust hood. Contain large spills and absorb waste on vermiculite. Pick this up with a nonsparking scoop and place it in a closed metal container for disposal.

Spills can be flushed with water to remove material from a hazardous area; flush it to an open area or to the ground for evaporation. Prevent the discharge of waste into sewers, drains, and waterways.

DISPOSAL: Burn waste material in an approved incinerator. Follow Federal, state, and local regulations.

SECTION 8. SPECIAL PROTECTION INFORMATION

Provide general and exhaust ventilation to meet TLV requirements. Exhaust hoods should have a minimum face velocity of 100 lfm (linear feet per minute). Exhaust fans and other electrical services must be of explosion-proof construction.
For emergency and nonroutine work above the TLV, an approved, full-facepiece, organic-vapor, canister gas mask is recommended; but for unknown concentrations or those above about 3000 ppm, self-contained or air-supplied respirators (positive pressure) are needed. Use safety goggles where liquid contact with the eyes is possible. Do not wear contact lenses when working with solvents. They pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them. Wear impervious gloves. Where splashing may occur, use a face shield, apron, and other protective clothing as needed to prevent skin contact.
• An eyewash station should be available near the workplace. A safety shower is desirable when large amounts are used. Medical surveillance of workers should include preplacement and (at least) annual examinations with attention to possible peripheral neuropathies. (*Lancet*, no. 8138 [August 18, 1979], p. 363.)

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Store in tightly closed drums or metal safety cans in a cool, well-ventilated storage area away from ignition sources and oxidizing agents. Storage facility must be of the OSHA-approved type for class IC (or IB) liquids (see sect. 5). Prevent damage to containers.
Ground and bond metal containers when dispensing. Use only nonsparking tools near the solvent. No smoking in areas of storage or use.
Avoid prolonged or repeated contact with skin. Prevent eye contact.

DOT Classification: Flammable Liquid DOT ID No.: UN1245 Label: Flammable Liquid

Data Source(s) Code: 2-4, 6-9, 12, 14, 19-21, 23, 26, 27, 38, 47, 82, 84. CK

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GENIUM PUBLISHING CORP.

No. 317
TOLUENE
(Revision D)

Issued: August 1979
Revised: April 1986

SECTION 1. MATERIAL IDENTIFICATION

20

MATERIAL NAME: TOLUENE

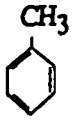
OTHER DESIGNATIONS: Methyl Benzene, Methyl Benzol, Phenylmethane, Toluol, C_7H_8, CAS #0108-88-3

MANUFACTURER/SUPPLIER: Available from many suppliers, including:
Allied Corp., PO Box 2064R, Morristown, NJ 07960; Telephone: (201) 455-4400
Ashland Chemical Co., Industrial Chemicals & Solvents Div., PO Box 2219, Columbus, OH; Telephone: (614) 889-3844

HMIS
H: 2
F: 3
R: 0
PPE*
*See sect. 8

R 1
I 3
S 2
K 4

SECTION 2. INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Toluene 	ca 100	8-hr TLV: 100 ppm, or 375 mg/m^3* (Skin)** Man, Inhalation, TCLo: 100 ppm: Psychotropic*** Rat, Oral, LD_{50}: 5000 mg/kg Rat, Inhalation, LCLo: 4000 ppm/4 hrs. Rabbit, Skin, LD_{50}: 14 gm/kg Human, Eye: 300 ppm

* Current (1985-86) ACGIH TLV. The OSHA PEL is 200 ppm with an acceptable ceiling concentration of 300 ppm and an acceptable maximum peak of 500 ppm/10 minutes.

** Skin designation indicates that toluene can be absorbed through intact skin and contribute to overall exposure.

*** Affects the mind.

SECTION 3. PHYSICAL DATA

Boiling Point ... 231°F (111°C)
Vapor Pressure @ 20°C, mm Hg ... 22
Water Solubility @ 20°C, wt. % ... 0.05
Vapor Density (Air = 1) ... 3.14
Evaporation Rate (BuAc = 1) ... 2.24
Specific Gravity (H_2O = 1) ... 0.866
Melting Point ... -139°F (-95°C)
Percent Volatile by Volume ... ca 100
Molecular Weight ... 92.15

Appearance and odor: Clear, colorless liquid with a characteristic aromatic odor. The odor is detectable to most individuals in the range of 10 to 15 ppm. Because olfactory fatigue occurs rapidly upon exposure to toluene, odor is not a good warning property.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air % by Volume	LOWER	UPPER
40°F (4°C) CC	896°F (480°C)		1.27	7.1

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam. Do not use a solid stream of water because the stream will scatter and spread the fire. Use water spray to cool tanks/containers that are exposed to fire and to disperse vapors.

UNUSUAL FIRE/EXPLOSION HAZARDS: This OSHA class IB flammable liquid is a dangerous fire hazard. It is a moderate fire hazard when exposed to oxidizers, heat, sparks, or open flame. Vapors are heavier than air and may travel a considerable distance to an ignition source and flash back.

SPECIAL FIRE-FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus with full facepiece operated in a positive-pressure mode when fighting fires involving toluene.

SECTION 5. REACTIVITY DATA

CHEMICAL INCOMPATIBILITIES: Toluene is stable in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization. This material is incompatible with strong oxidizing agents, dinitrogen tetraoxide, silver perchlorate, tetranitromethane, and uranium hexafluoride. Contact with these materials may cause fire or explosion. Nitric acid and toluene, especially in the presence of sulfuric acid, will produce nitrated compounds that are dangerously explosive.

CONDITIONS TO AVOID: Avoid exposure to sparks, open flame, hot surfaces, and all sources of heat and ignition. Toluene will attack some forms of plastics, rubber, and coatings. Thermal decomposition or burning produces carbon dioxide and/or carbon monoxide.

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SECTION 6. HEALTH HAZARD INFORMATION | TLV

Toluene is not considered a carcinogen by the NTP, IARC, or OSHA. SUMMARY OF RISKS: Vapors of toluene may cause irritation of the eyes, nose, upper respiratory tract, and skin. Exposure to 200 ppm for 8 hours causes mild fatigue, weakness, confusion, lacrimation (tearing) and paresthesia (a sensation of prickling, tingling, or creeping on the skin that has no objective cause). Exposure to higher concentrations may cause headache, nausea, dizziness, dilated pupils, and euphoria, and, in severe cases, may cause unconsciousness and death. The liquid is irritating to the eyes and skin. Contact with the eyes may cause transient corneal damage, conjunctival irritation, and burns if not promptly removed. Repeated and/or prolonged contact with the skin may cause drying and cracking. It may be absorbed through the skin in toxic amounts. Ingestion causes irritation of the gastrointestinal tract and may cause effects resembling those from inhalation of the vapor. Chronic overexposure to toluene may cause reversible kidney and liver injury. FIRST AID: EYE CONTACT: Immediately flush eyes, including under eyelids, with running water for at least 15 minutes. Get medical attention if irritation persists.* SKIN CONTACT: Immediately flush skin (for at least 15 minutes) while removing contaminated shoes and clothing. Wash exposed area with soap and water. Get medical attention if irritation persists or if a large area has been exposed.* INHALATION: Remove victim to fresh air. Restore and/or support breathing as required. Keep victim warm and quiet. Get medical help.* INGESTION: Give victim 1 to 2 glasses of water or milk. Contact a poison control center. Do not induce vomiting unless directed to do so. Transport victim to a medical facility. Never give anything by mouth to a person who is unconscious or convulsing. * GET MEDICAL ASSISTANCE = In plant, paramedic, community. Get medical help for further treatment, observation, and support after first aid, if indicated.

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL/LEAK: Notify safety personnel of large spills or leaks. Remove all sources of heat and ignition. Provide maximum explosion-proof ventilation. Limit access to spill area to necessary personnel only. Remove leaking containers to safe place if feasible. Cleanup personnel need protection against contact with liquid and inhalation of vapor (see sect. 8).
WASTE DISPOSAL: Absorb small spills with paper towel or vermiculite. Contain large spills and collect if feasible, or absorb with vermiculite or sand. Place waste solvent or absorbent into closed containers for disposal using nonsparking tools. Liquid can be flushed with water to an open holding area for handling. Do not flush to sewer, watershed, or waterway.
COMMENTS: Place in suitable container for disposal by a licensed contractor or burn in an approved incinerator. Consider reclaiming by distillation. Contaminated absorbent can be buried in a sanitary landfill. Follow all Federal, state, and local regulations. TLm 96: 100-10 ppm. Toluene is designated as a hazardous waste by the EPA. The EPA (RCRA) HW No. is U220 (40 CFR 261). The reportable quantity (RQ) is 1000 lbs/454 kg (40 CFR 117).

SECTION 8. SPECIAL PROTECTION INFORMATION

Provide general and local exhaust ventilation to meet TLV requirements. Ventilation fans and other electrical service must be nonsparking and have an explosion-proof design. Exhaust hoods should have a face velocity of at least 100 lfm (linear feet per minute) and be designed to capture heavy vapor. For emergency or nonroutine exposures where the TLV may be exceeded, use an organic chemical cartridge respirator if concentration is less than 200 ppm and an approved canister gas mask or self-contained breathing apparatus with full facepiece if concentration is greater than 200 ppm.
Safety glasses or splash goggles should be worn in all work areas. Neoprene gloves, apron, face shield, boots, and other appropriate protective clothing and equipment should be available and worn as necessary to prevent skin and eye contact. Remove contaminated clothing immediately and do not wear it until it has been properly laundered.

Eyewash stations and safety showers should be readily available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

STORAGE SEGREGATION: Store in a cool, dry, well-ventilated area away from oxidizing agents, heat, sparks, or open flame. Storage areas must meet OSHA requirements for class IB flammable liquids. Use metal safety cans for handling small amounts. Protect containers from physical damage. Use only with adequate ventilation. Avoid contact with eyes, skin, or clothing. Do not inhale or ingest. Use caution when handling this compound because it can be absorbed through intact skin in toxic amounts. SPECIAL HANDLING/STORAGE: Ground and bond metal containers and equipment to prevent static sparks when making transfers. Do not smoke in use or storage areas. Use nonsparking tools. ENGINEERING CONTROLS: Preplacement and periodic medical exams emphasizing the liver, kidneys, nervous system, lungs, heart, and blood should be provided. Workers exposed to concentrations greater than the action level (50 ppm) should be examined at least once a year. Use of alcohol can aggravate the toxic effects of toluene.
COMMENTS: Emptied containers contain product residues. Handle accordingly!
Toluene is designated as a hazardous substance by the EPA (40 CFR 116). DOT Classification: Flammable liquid. UN1294.
Data Source(s) Code: 1-9, 12, 16, 20, 21, 24, 26, 34, 81, 82. CR

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Approvals J.O. Ricciocco, 11/86.
Indust. Hygiene/Safety DW 10-86
Medical Review Oct 86

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DATE: 3/88

CHEMICAL DATA SHEET

I. Chemical/Compound Name: Toulene
   A. Synonyms: Toluol, methyl benzene
   B. CAS #: 108-88-3

II. Physical Characteristics

   A. X Liquid ___ Solid ___ Powder ___ Gas
   B. Color Colorless
   C. Odor Benzene-like
   D. LEL 1.3 % Flash Pt. 40°F
   E. Boiling Point 231°F Melting Point -139°F
      Ionization Potential 8.82 eV
   F. Other

III. Recommended Air Purifying Cartridge:

   ___ Dusts, Fumes, Mists ___ Acid Gases
   X Organic Vapors ___ Pesticides
   ___ HEPA ___ Air Purifying is Inappropriate
   ___ Ammonia/Amines ___ Other

IV. Health Hazards Data

   A. Routes of Entry: X Inhalation X Skin Absorption
      ___ Ingestion
   B. OSHA Listed Carcinogen: X No ___ Suspect ___ Yes
   C. Sensitizer: ___ No X No Data ___ Suspect ___ Yes
   D. Acute Toxicity:
      Eye Contact Irritant
      Skin Contact Redness, drying of skin
      Inhalation Headache, nausea, lassitude, intoxication, dilated pupils
   E. Chronic Toxicity:
      Target Organs Liver, CNS, skin
      Long-Term Effects No conclusive data. Possibly liver damage.

V. Exposure Limits
   A. OSHA PEL 200 ppm TWA, 300 ppm ceiling, 500 ppm 10-min peak
   B. ACGIH TLV 100 ppm TWA
   C. IDLH 2,000 ppm
   D. NIOSH REL 100 ppm 10-hr TWA; 200 ppm 10-min ceiling
   E. STEL 150 ppm (ACGIH)

VI. Other Pertinent Information/Special Precautions:

CHEMICAL DATA SHEET

I. Chemical/Compound Name: Chromium: soluble chromic and chromous salts

A. Synonyms: dependent upon specific compound chromous

B. CAS #: 7440-47-3

II. Physical Characteristics

A. ____ Liquid X Solid ____ Powder ____ Gas

B. Color Colorless - green-violet (dependent on compound)

C. Odor odorless

D. LEL ____ % Flash Pt. ____ °F

E. Boiling Point ____ °F Melting Point ____ °F

Ionization Potential ____ eV

F. Other ____

III. Recommended Air Purifying Cartridge:

X Dusts, Fumes, Mists
___ Organic Vapors
X HEPA
___ Ammonia/Amines
___ Acid Gases
___ Pesticides
___ Air Purifying is Inappropriate
X Other SCBA - at concentrations greater than 250 mg/m^3 (TWA)

IV. Health Hazards Data

A. Routes of Entry: ___ Inhalation X Skin Contact X Ingestion

B. OSHA Listed Carcinogen: X No ____ Suspect ____ Yes

C. Sensitizer: ____ No ____ No Data ____ Suspect X Yes

D. Acute Toxicity:

Eye Contact irritant

Skin Contact dermititis

Inhalation

E. Chronic Toxicity:

Target Organs skin

Long-Term Effects irritating and corrosive effect on tissue leading to ulcers

V. Exposure Limits

A. OSHA PEL 0.5 mg/m^3 (TWA)

B. ACGIH TLV 0.05 mg/m^3

C. IDLH

D. NIOSH REL 25 ug/m^3 (10 hr TWA), 50 ug/m^3 (15 min ceiling)

E. STEL

VI. Other Pertinent Information/Special Precautions:

7688b

CHEMICAL DATA SHEET

I. Chemical/Compound Name: Manganese (dust and compounds)
   A. Synonyms: depends on specific compound
   B. CAS #: 7439-96-5

II. Physical Characteristics

   A. ____ Liquid X Solid ____ Powder ____ Gas
   B. Color gray
   C. Odor ____
   D. LEL ____ % Flash Pt. ____ °F
   E. Boiling Point 3806 °F Melting Point 2273 °F
      Ionization Potential ____ eV
   F. Other ____

III. Recommended Air Purifying Cartridge:

   X Dusts, Fumes, Mists
   ___ Organic Vapors
   ___ HEPA
   ___ Ammonia/Amines
   ___ Acid Gases
   ___ Pesticides
   ___ Air Purifying is Inappropriate
   ___ Other ____

IV. Health Hazards Data

   A. Routes of Entry: X Inhalation ___ Skin Absorption
      X Ingestion
   B. OSHA Listed Carcinogen: X No ____ Suspect ____ Yes
   C. Sensitizer: ____ No X No Data ____ Suspect ____ Yes
   D. Acute Toxicity:
      Eye Contact N/A

      Skin Contact N/A

      Inhalation Malaise, fatigue, weakness in legs, dry throat, cough, tightness in chest, low-back pain, vomiting

   E. Chronic Toxicity:
      Target Organs Respiratory system, CNS, Blood, kidneys
      Long-Term Effects Parkinson-like systems, metal fume fever, dyspnea, rales, symptoms simulate MS, ALS, progressive Lenticular degeneration, progressive bulbar paralysis, emotionally unstable

V. Exposure Limits
   A. OSHA PEL 5 mg/m^3 (TWA)
   B. ACGIH TLV 5 mg/m^3 (TWA); 1 mg/m^3 (fume)
   C. IDLH 10,000 mg/m^3 (TWA)
   D. NIOSH REL 5 mg/m^3 (TWA)
   E. STEL ____

VI. Other Pertinent Information/Special Precautions: ____

7588b

CHEMICAL DATA SHEET

I. Chemical/Compound Name: Lead, inorganic, as dust and fume
   A. Synonyms: Pb, solder, dross
   B. CAS #: 7439-92-1

II. Physical Characteristics

   A. ___ Liquid X Solid ___ Powder ___ Gas
   B. Color: Silvery to gray, depending upon oxidation
   C. Odor: Varies with compound
   D. LEL: Dust may be explosive Flash Pt. NA °F
   E. Boiling Point 3164°F Melting Point 621°F
      Ionization Potential NA eV
   F. Other

III. Recommended Air Purifying Cartridge:

   X Dusts, Fumes, Mists
   ___ Organic Vapors
   X HEPA
   ___ Ammonia/Amines
   ___ Acid Gases
   ___ Pesticides
   ___ Air Purifying is Inappropriate
   X Other Higher concentrations may require supplied air

IV. Health Hazards Data

   A. Routes of Entry: X Inhalation X Skin Absorption X Ingestion
   B. OSHA Listed Carcinogen: ___ No X Suspect ___ Yes
   C. Sensitizer: ___ No X No Data ___ Suspect ___ Yes
   D. Acute Toxicity:
      Eye Contact: Dust is irritant
      Skin Contact: Molten lead causes burns. Generally, in solid state lead causes no acute symptoms.ant and a strong
      Inhalation: Lassitude, insomnia, weakness, GI disturbances, colic.
   E. Chronic Toxicity:
      Target Organs: CNS, blood, GI tract, kidneys, gigival tissue
      Long-Term Effects: Anorexia, weight loss, constipation, pallor, neuro-muscular motor weakness, "wrist drop". A suspect carcinogen of the lungs and kidneys. An experimental teratogen.

V. Exposure Limits
   A. OSHA PEL 0.05 mg/m^3 TWA
   B. ACGIH TLV 0.15 mg/m^3 TWA
   C. IDLH
   D. NIOSH REL Below 0.1 mg/m^3 10-hour TWA
   E. STEL

VI. Other Pertinent Information/Special Precautions:

7339E

ATTACHMENT 2

WCC HEALTH AND SAFETY ACCIDENT REPORT FORM

FORM HS-502
WC HEALTH AND SAFETY INCIDENT REPORT

Project Name: _____

Project Number: _____

Date of Incident: _____

Time of Incident: _____

Location: _____

TYPE OF INCIDENT (Check all applicable items)

- ☐ Illness
- ☐ Fire, explosion, flash
- ☐ Injury
- ☐ Unexpected exposure
- ☐ Property Damage
- ☐ Vehicular Accident
- ☐ Health & Safety Infraction
- ☐ Other (describe) _____

PROJECT NAME: _____ LOCATION: _____

DESCRIPTION OF INCIDENT (describe what happened and possible cause. Identify individuals involved, witnesses, and their affiliations; and describe emergency or corrective action taken.)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Reporter: _____ _____ _____

Print Name Signature Date

Reporter must deliver this report to the Operating Unit Health & Safety Officer within 24 hours of the reported incident for medical treatment cases and within five days for other incidents.

Reviewed by: _____ _____

Operating Unit Health & Safety Officer Date

Distribution:

- Corporate Health and Safety Administrator
- Corporate Health and Safety Officer
- Project Manager
- Personnel Office (medical treatment cases only)

ATTACHMENT 3

SITE SAFETY OFFICER PRE-WORK CHECKLIST

ATTACHMENT 3

SITE SAFETY OFFICER PRE-WORK CHECKLIST

1. Have you distributed the project Health and Safety Plan to all covered employees and allowed adequate time for review and clarification or resolution of concerns? ___Yes ___No

2. Are topics and issues discussed at the pre-work safety meeting documented in the project log book or on a safety meeting worksheet? ___Yes ___No

3. Have medical approval sheets, proper training documentation, and fit testing records for all covered employees been collected and filed at the jobsite? ___Yes ___No

4. Have the Safety Plan Compliance Agreement Forms been signed by all covered employees, collected, and forwarded to the business unit health and safety officer for filing? ___Yes ___No

5. Is all required personnel protective equipment (PPE) available in adequate supply on site? ___Yes ___No

6. A) Is all required air monitoring equipment available in proper operating condition on site? ___Yes ___No

   B) Is calibration gas for all air monitoring equipment available in adequate supply on site? ___Yes ___No

   C) Is all air monitoring equipment properly calibrated and ready for use? ___Yes ___No

7. Are emergency service telephone numbers posted on site or readily available in the event of an emergency? ___Yes ___No

8. Is the emergency evacuation map posted on site or readily available if the need for site evacuation develops? ___Yes ___No ___N/A

ATTACHMENT 4

SITE SAFETY MEETING REPORT FORM

Woodward-Clyde

ATTACHMENT 4

SITE SAFETY MEETING REPORT FORM

Project Number and Name:_____ Location:_____

Date and Time:_____ Activity:_____

Site Supervisor:_____ Site Health & Safety Officer:_____

EMERGENCY INFORMATION

Hospital:	Location_____	Phone_____
Fire Department:	Location_____	Phone_____
Police:	Location_____	Phone_____
Ambulance:	Location_____	Phone_____

ITEMS DISCUSSED:

ATTENDEES:

NAME (PRINTED)	SIGNATURE	DATE

ATTACHMENT 5

EMERGENCY SERVICES/PHONE NUMBERS AND ROUTE TO THE HOSPITAL

ATTACHMENT 5

EMERGENCY SERVICES/PHONE NUMBERS AND ROUTE TO THE HOSPITAL

The directions to the hospital are as follows:

> Travel North on Cayce Road to Highway 72. Turn left on Highway 72 and travel North to Poplar Avenue (Memphis, Tennessee). Turn left on Poplar Avenue, travel approximately ten miles, hospital is on the left (7691 Poplar Avenue).

The list of emergency services must either be posted onsite or carried by all field personnel. Attachment 4 contains the following emergency information and directions to the hospital for posting purposes.

Emergency Service	Location	Telephone
Emergency Number	Holly Springs, Mississippi	601-851-7600
Fire Department	Holly Springs, Mississippi	601-851-7600
Police Department	Holly Springs, Mississippi	601-851-7600
Ambulance	Holly Springs, Mississippi	601-851-7600
Hospital	Memphis, Tennessee	901-754-6418
Poison Control Center	Holly Springs, Mississippi	601-851-7600
WCC Physician	Greaney Medical, Inc.	714-535-8221

FINAL

SOIL REMOVAL WORK PLAN ENTERPRISE RECOVERY SYSTEMS SITE BYHALIA, MISSISSIPPI

Prepared for:
Enterprise Recovery Systems
Site Group
May 1994
Project No. 93B477

Woodward-Clyde

460 Briarwood Drive
Suite 520
Jackson, MS 39206

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1.0
INTRODUCTION

Woodward-Clyde Consultants (WCC) has been retained by the Enterprise Recovery Systems Site Group (ERSSG) to prepare a soil removal workplan for the Enterprise Recovery Systems (ERS) site located in Byhalia, Mississippi. This workplan has been prepared as required by the Environmental Protection Agency (EPA) Administrative Order of Consent (AOC) dated September 27, 1993.

The objectives of this workplan are to: 1) identify the soil to be removed from the site based on the cleanup standards as set forth in the AOC, and 2) provide a description and expeditious schedule of the soil removal activities. The purpose of this phase of the removal is to control the source of any existing or threatened releases of specified hazardous substances into the environment in a manner and to the extent necessary to achieve compliance with the cleanup standards specified in the AOC. This workplan incorporates by reference the workplans previously approved at the site for the removal activities, WCC's soils characterization sampling and analysis, and health and safety workplans. A brief summary of the site history and current conditions at the site is provided in Section 2.0. Section 3.0 presents the soil volume estimates for removal and proposed removal activities. Section 4.0 describes the results of the soil sampling activities performed in accordance with the EPA approved soil investigation workplan. The project schedule is presented in Section 5.0.

2.0
BACKGROUND

The ERS site is located at Route 5 Box 287 on Cayce Road, approximately one quarter mile off U.S. Highway 72 just inside the Mississippi state line southeast of Collierville, Tennessee (Figure 1). The site consists of an 8 acre parcel located in the NW 1/4, Section 22, Township 1 South, Range 4 West. ERS operated as a solvent recycling/recovery facility from 1978 to 1991. In 1988, ERS received a RCRA Part B permit. Numerous fires, spills, and explosions were reported at the site during operations. In October 1991, ERS ceased operations. Subsequent investigations by regulatory agencies identified organic compounds in the soil at the site.

Tanks, drums, drum contents, and laboratory materials have been removed from the site in accordance with the AOC and the EPA approved workplan. In addition, a soils investigation workplan has been approved by the EPA, and that investigation has been completed. Results from the soil investigation are included with this workplan.

Contaminated soils were reported at the site in an interim report dated April 1993 by the EPA Technical Assistant Team (TAT). This report listed five areas (A, B, C, D, and E) at the site with significant volatile organic compound (VOC) contamination in the shallow soil. The AOC required the ERSSG to address contamination in these areas by achieving the following cleanup levels for the soils above the water table:

Parameter	Cleanup Standard (ppm)
Acetone	500
Ethylbenzene	500
MEK	500
Toluene	500
Trichloroethylene	50
1,1,1 Trichloroethane	250
Xylene	500

3.1 Soil Volume Estimates

The soil areas of concern in the TAT report were further investigated by WCC in March *and November*, 1994 to define the nature and extent of contamination above the water table in each area. Soils in each area were characterized based on organic vapor concentrations using an organic vapor analyzer (OVA) and by laboratory analysis. The OVA results were used to target soil sample locations for laboratory analysis. Results from the soil laboratory analysis were used to identify the areas at the site which exceed the EPA soil cleanup criteria. Only two shallow surface soil samples, A04 and C10, collected *by WCC* from 0.5 to 1.0 foot below land surface (bls) exceeded the EPA soil cleanup levels. *EPA collected one soil sample (TF8-1) through a hole in the concrete pad in the diked north tank area which also exceeded the soil cleanup level. This area, area F, was not previously identified in the TAT report and it was not fully delineated during the soil sampling activities. This area will be included as part of the soil removal activities and soil samples will be collected prior to or during the soil removal activity to document soil conditions in this area. The concrete pad in area F will be removed to access and remediate the soils beneath the north diked tank area. All concrete from this area will remain on site. Figure 2 depicts the areas for soil removal at the site.*

Determination of the amount of soil in the areas described above to be removed will be based on the following conservative rationale:

- Soils will be initially excavated to a depth of three feet bls. This depth will eliminate the surface exposure routes (volatilization, dust, direct contact, etc.) at the site. Based on the laboratory data collected during the March 1994 soil sampling activities, all soil samples collected and analyzed at depths greater than one foot bls were below the EPA cleanup level for all listed parameters. Therefore, setting an initial excavation depth of three feet represents a conservative approach to the removal. Section 3.2 will describe how the final depth of excavation will be determined during the site removal activities.

- The soil excavation area will be initially based on the soil OVA and laboratory results collected during the March 1994 soil sampling activities. The areas depicted on Figure 2 with shallow soil OVA concentrations exceeding 1,000 ppm will be targeted for removal. The initial soil removal *in areas A and C* was estimated by measuring the distance between the soil sample which exceed the EPA action limit to the nearest soil sample with an OVA concentration less than or equal to 500 ppm. The 500 ppm organic vapor concentration was selected based on a comparison of the OVA readings with the laboratory analysis for common soil samples. All soil samples with OVA concentrations equal to or less than 820 ppm were significantly less than the EPA cleanup criteria. Based on these findings, the 500 ppm OVA concentration is a conservative value to define the areal extent of shallow solvent contamination. The final area for soil removal will be determined during the soil removal activities described in Section 3.2. *Soil OVA screening techniques will also be used in area F to delineate this area for soil removal.*

The initial estimated volume of soil to be removed at each location is:

Sample Location	Soil Volume (cubic yards)
ERS1-SS-A1-G	30.0
ERS1-SS-C10-G	10.5
TF8-1	*25.0 (estimated)*
Total	65.5

The exact volume of soil removed will depend on the laboratory verification sample results to define the areal extent and depth of excavation during the soil removal activities.

3.2 Soil Removal Activities

Soils designated for removal will be excavated by a contractor approved by the ERSSG. The contractor shall meet all appropriate hazardous waste training and certification requirements to conduct this type of work. Excavation activities are anticipated to be completed within two to three days; therefore, the ERS Project Coordinator will have the option of placing the soils in roll-off boxes or stockpiling and loading the soils directly on trucks for shipment to the disposal facility.

Four discrete soil samples will be collected along the side walls from each excavated area for field screening. These samples will be placed in a sealed container and allowed to equilibrate for approximately 15 minutes. The head-space in the container will be sampled using the OVA to determine the organic vapor concentration. If the organic vapor concentration exceeds 500 ppm, the excavation will continue an additional foot in the direction of the high sample reading and a second sample in this direction will be collected and analyzed for vapor concentrations. This procedure will continue until head-space readings are below 500 ppm. Following this procedure, one composite soil sample will be collected from the side walls for verification laboratory analysis for the seven targeted compounds.

Three discrete soil samples will be collected along the bottom of the excavation and analyzed using the OVA. The soil sample with the highest OVA reading will be forwarded to a laboratory for analysis for the EPA cleanup parameters. One soil sample will be selected at random if the OVA readings are the same. If the verification soil sample results exceed the EPA cleanup criteria, the depth of the excavation will continue an additional three feet. The excavation and verification sampling will continue until one of the following conditions are met: 1) the EPA cleanup criteria has been achieved, 2) a maximum depth of 15 feet is reached, 3) groundwater is encountered. Soil excavation areas and any stockpiled soils will be covered with 6 mil visqueen (typical) during periods when confirmatory laboratory analyses are performed.

Due to the sensitivity of the OVA as a field screening instrument, QA/QC procedures on the instrument will be followed to ensure accurate readings during the soil removal activities. All verification soil samples will be analyzed for the seven targeted volatile organics using EPA method SW-846 8240. The excavated areas will be lined with visqueen and filled to grade with clean backfill following the soil removal and sample verification activities. *The remediated area will be tilled, fertilized, and seeded with grass to minimize potential soil erosion.*

3.3 Sample Documentation

All soil samples collected during the excavation activities will be processed in accordance with the ERS sampling and analysis plan for soil characterization dated February 1994 and approved by the EPA. This sampling and analysis plan describes the sampling procedures, equipment decontamination procedures, and sample identification and handling. The first four characters in the sample identification code will change from ERS1 to ERS2 to designate the second field activity.

All verification soil samples collected during the remedial activity will be shipped to an EPA approved independent testing laboratory. The laboratory will maintain chain-of-custody and QA/QC records for all of the samples, and will perform the analysis in an expedited turn around time. All disposal and/or waste material will be analyzed in accordance with the waste disposer requirements for proper waste classification.

3.4 Waste Management

All waste generated at the site including the roll-off boxes, drummed personal protective equipment (PPE), and decontamination liquids for equipment rinsates will be properly labeled to identify the waste. The total *volume of waste* generated at the site is estimated to be *equivalent to five* roll-off boxes and less than 30 drums. The drum numbering scheme will follow the same format outlined in the Phase I removal action workplan. A log book will be maintained at the site to record the specific type of material placed in each drum, roll-off box, stagging location, or directly loaded to the truck and the estimated quantities.

This plan assumes that the waste profiles previously completed for soil and debris disposal during the Phase I removal activities will remain in effect for this soil removal. This will be confirmed with the transporter and disposer prior to excavation. Soil samples may be collected at the site for profiling purposes in advance of the removal action to expedite the placement of the waste at the disposal facility. The waste will be manifested and certificates of disposal will be used to document proper waste disposal. Transportation and disposal of all waste will be performed by a licensed transporter and disposer. Waste handling will be performed in accordance with all local, state, and federal regulations for these activities.

3.5 Reports

A daily log will be maintained to document site conditions, work activities, and significant events which may impact the completion of the proposed work. A final report will be prepared for the ERSSG to document the soil removal quantities and disposal for the work.

4.0
SOIL SAMPLING RESULTS

Soil sampling activities were conducted at the site on March 1 through 6, 1994 *and on November 3, 1994*. The five "hot" spots identified in the TAT report were identified as Areas A, B, C, D, and E. *These areas were expanded based on the soil OVA screening results obtained during the March 1994 sampling activities (Figure 2). All March 1994 soil samples submitted to the laboratory were analyzed for volatile organic compounds (VOCs). Five soil samples were collected in November 1994 and submitted to the laboratory for Resource Conservation and Recovery Act (RCRA) metal and semi-volatile organic compound (SVOC) analyses.*

WCC collected 53 surficial soil samples during the March 1994 activities for field screening using an OVA following the protocol in the EPA approved workplan (Table 1). A total of 15 soil borings were performed and 122 soil boring samples were collected at selected depths and field screened using the OVA (Table 2). Due to a moist stiff-clay encountered at approximately 8-9 feet below land surface, WCC was unable to obtain an undisturbed soil sample below this depth. WCC collected and field screened an additional 14 surficial soil samples under the direction of the EPA On Scene Coordinator as specified in the workplan (Table 3). Figure 3 depicts the areas of shallow soil contamination exceeding 100 and 1,000 parts per million (ppm) measured on the OVA.

WCC collected and shipped 30 soil samples, 15 surficial and 15 boring samples at selected depths, to the laboratory for analysis (EPA method 8240 for volatile organics). Laboratory quality control samples including duplicates, equipment rinsates, and a laboratory trip blank were also analyzed. Sample results were compared to the compounds listed in the EPA order and the designated soil maximum contaminate levels in Table 4. A review of the analytical data revealed a detected concentration of acetone and MEK in the laboratory trip blank. Acetone is a common laboratory contaminate; therefore, all acetone and MEK analytical results below 1 ppm and .7 ppm, respectively, have been qualified by WCC. The analytical results are presented in Appendix A.

The analytical results indicate that only two soil samples, ERS1-SS-A04-GS (A04), and ERS1-SS-C10-G (C10) contained organic volatile concentrations that exceeded the EPA maximum soil contaminate levels. These soil samples also had OVA concentrations exceeding 1,000 ppm on the OVA. Soil sample A04 was collected at a depth of 6 to 12 inches bls. OVA results from neighboring soil samples A01, A05, and the surface soil boring sample SB-A1 also had organic vapor concentrations exceeding 1,000 ppm which indicates that the shallow soil area defined by these results exceeds the EPA cleanup criteria. OVA results from samples A02, A03, A06, A07, and A08 which surround A01, A04, A05, and SB-A1 indicate that the lateral extent of the shallow soil contamination in this area has been defined. All OVA results collected at one foot intervals in soil boring SB-A01 exceeded 1,000 ppm from the surface to a depth of eight feet. One soil sample

was collected from soil boring SB-A01 at a depth of 7-8 feet for laboratory analysis. Results from this soil sample were below the EPA action levels for the seven listed parameters; thereby confirming that the vertical extent of contamination exceeding the cleanup levels has also been defined for this area.

Areas C and D contained numerous soil samples in excess of 100 ppm measured on the OVA, and only two small areas with OVA concentrations exceeding 1,000 ppm. Surface soil sample C10 contained 710 ppm trichloroethylene which exceeded the EPA cleanup level of 50 ppm, and the OVA reading for this soil sample exceeded 1,000 ppm. Analytical results from soil samples collected around sample C10 indicate the areal extent of contamination has been defined. Shallow soil sample C05 and soil boring samples collected on one foot intervals in SB-C01 exceeded 1,000 ppm on the OVA; however, laboratory results from sample C05 and sample SB-C01 (7-8 foot depth) were below the EPA cleanup criteria. Based on the laboratory results from samples C05 and SB-C01 (7-8 foot depth), this area will not be addressed for soil removal.

Five soil samples were collected in November 1994 to determine if SVOC or RCRA metals were present near the proposed removal areas in elevated concentrations. These analyses were performed at the request of EPA to ensure that the soil removal areas identified during the March 1994 VOC sampling would include these additional constituents, if present. Split samples were collected with the EPA and the WCC results are presented in Tables 5 and 6. Results of the SVOC and RCRA metals indicated these constituents were not present in significant concentrations to alter the soil removal areas defined during the March 1994 sampling activity.

5.0
PROJECT SCHEDULE

The following schedule of work is anticipated for the completion of this project. It should be noted, the total cubic yards of soil to be removed from the site will be determined during the field activities; therefore, a time range has been estimated for this activity.

ACTIVITY	TIME (CUMULATIVE DAYS)
Mobilize Remediation Equipment - 7 days	7
Conduct Soil Removal - 3 - 5 days	12
Coordinate Soil Disposal - 3 days	15
Prepare Final Report - 21 days	36

TABLE 1

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SURFICIAL SOIL SAMPLE OVA RESULTS

Date	Soil I.D. Number	Depth Collected Below Land Surface (feet)	OVA Reading (ppm)
3/2/94	ERS1-SS-A01-G	0.5 - 1.0	>1000
3/2/94	ERS1-SS-A02-G	0.5 - 1.0	470
3/2/94	S1-SS-A03-G	0.5 - 1.0	480
3/2/94	ERS1-SS-A04-G[1,2]	0.5 - 1.0	>1000
3/2/94	ERS1-SS-A05-G	0.5 - 1.0	>1000
3/2/94	ERS1-SS-A06-G	0.5 - 1.0	60
3/2/94	ERS1-SS-A07-G	0.5 - 1.0	100
3/2/94	ERS1-SS-A08-G[1]	0.5 - 1.0	440
3/2/94	ERS1-SS-A09-G[1]	0.5 - 1.0	0.0
3/2/94	ERS1-SS-A10-G	0.5 - 1.0	42
3/2/94	ERS1-SS-A11-G	0.5 - 1.0	140
3/2/94	ERS1-SS-A12-G	0.5 - 1.0	34
3/2/94	ERS1-SS-A13-G[1]	0.5 - 1.0	72
3/2/94	ERS1-SS-A14-G	0.5 - 1.0	44
3/2/94	ERS1-SS-A15-G	0.5 - 1.0	1.4
3/1/94	ERS1-SS-B01-G	0.5 - 1.0	21
3/1/94	ERS1-SS-B02-G[1,2]	0.5 - 1.0	56
3/1/94	ERS1-SS-B03-G	0.5 - 1.0	18
3/1/94	ERS1-SS-B04-G	0.5 - 1.0	2.8
3/1/94	ERS1-SS-B05-G[1]	0.5 - 1.0	8.2
3/2/94	ERS1-SS-B06-G	0.5 - 1.0	0.0

TABLE 1 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SURFICIAL SOIL SAMPLE OVA RESULTS

Date	Soil I.D. Number	Depth Collected Below Land Surface (feet)	OVA Reading (ppm)
3/1/94	ERS1-SS-C01-G	0.5 - 1.0	280
3/1/94	ERS1-SS-C02-G	0.5 - 1.0	310
3/1/94	ERS1-SS-C03-G	0.5 - 1.0	20
3/1/94	ERS1-SS-C04-G	0.5 - 1.0	120
3/1/94	ERS1-SS-C05-G[1,2]	0.5 - 1.0	>1000
3/2/94	ERS1-SS-C06-G	0.5 - 1.0	26
3/2/94	ERS1-SS-C07-G	0.5 - 1.0	100
3/2/94	ERS1-SS-C08-G	0.5 - 1.0	36
3/2/94	ERS1-SS-C09-G[1]	0.5 - 1.0	380
3/2/94	ERS1-SS-C10-G[1]	0.5 - 1.0	>1000
3/2/94	ERS1-SS-C11-G	0.5 - 1.0	350
3/2/94	ERS1-SS-C12-G	0.5 - 1.0	420
3/2/94	ERS1-SS-C13-G	0.5 - 1.0	2.6
3/3/94	ERS1-SS-C14-G	0.5 - 1.0	32
3/3/94	ERS1-SS-C15-G	0.5 - 1.0	14
3/1/94	ERS1-SS-D01-G	0.5 - 1.0	340
3/1/94	ERS1-SS-D02-G	0.5 - 1.0	100
3/1/94	ERS1-SS-D03-G	0.5 - 1.0	200
3/1/94	ERS1-SS-D04-G	0.5 - 1.0	5
3/1/94	ERS1-SS-D05-G	0.5 - 1.0	110
3/2/94	ERS1-SS-D06-G	0.5 - 1.0	0.0
3/2/94	ERS1-SS-D07-G[1,2]	0.5 - 1.0	360
3/2/94	ERS1-SS-D08-G[1]	0.5 - 1.0	60
3/3/94	ERS1-SS-D09-G	0.5 - 1.0	240
3/3/94	ERS1-SS-D10-G	0.5 - 1.0	27
3/3/94	ERS1-SS-D11-G	0.5 - 1.0	9.6

TABLE 1 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SURFICIAL SOIL SAMPLE OVA RESULTS

Date	Soil I.D. Number	Depth Collected Below Land Surface (feet)	OVA Reading (ppm)
3/1/94	ERS1-SS-E01-G	0.5 - 1.0	12
3/1/94	ERS1-SS-E02-G	0.5 - 1.0	8.6
3/1/94	ERS1-SS-E03-G[1,2]	0.5 - 1.0	500
3/1/94	ERS1-SS-E04-G	0.5 - 1.0	18
3/1/94	ERS1-SS-E05-G[1]	0.5 - 1.0	16
3/1/94	ERS1-SS-E06-G[1,3]	0.5 - 1.0	24

[1]Sample submitted for laboratory analysis

[2]Sample split with EPA

[3]Duplicate Sample

TABLE 2

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL BORING SAMPLE OVA RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Sample Depth Below Land Surface (feet)	Soil Sample I.D. Number - Area A		
	ERS1-SB-A01-G	ERS1-SB-A02-G	ERS1-SB-A03-G
0 - 1	>1000	68	40
1 - 2	>1000	54	65
2 - 3	>1000	68	60
3 - 4	>1000	54	52
4 - 5	>1000	20	62
5 - 6	>1000	58	90
6 - 7	>1000	38	80
7 - 8	>1000	38	92
8 - 9	*	44	*
Sample Depth Below Land Surface (feet)	**Soil Sample I.D. Number - Area B**		
	ERS1-SB-B01-G	ERS1-SB-B02-G	ERS1-SB-B03-G
0 - 1	50	30	11
1 - 2	480	48	4
2 - 3	>1000	70	7.6
3 - 4	950	64	62
4 - 5	410	90	82
5 - 6	820	80	100
6 - 7	800	100	70
7 - 8	720	84	76
8 - 9	*	90	*

* - Sample not collected at this depth

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TABLE 2 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL BORING SAMPLE OVA RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Sample Depth Below Land Surface (feet)	Soil Sample I.D. Number - Area C		
	ERS1-SB-C01-G	ERS1-SB-C02-G	ERS1-SB-C03-G
0 - 1	>1000	8	290
1 - 2	>1000	24	140
2 - 3	>1000	26	86
3 - 4	>1000	54	64
4 - 5	>1000	66	75
5 - 6	>1000	90	76
6 - 7	>1000	100	52
7 - 8	>1000	64	70
8 - 9	*	*	*

Sample Depth Below Land Surface (feet)	Soil Sample I.D. Number - Area D		
	ERS1-SB-D01-G	ERS1-SB-D02-G	ERS1-SB-D03-G
0 - 1	740	20	600
1 - 2	760	10	180
2 - 3	420	20	55
3 - 4	100	21	40
4 - 5	100	14	60
5 - 6	140	14	60
6 - 7	90	16	46
7 - 8	60	36	30
8 - 9	*	*	*

* - Sample not collected at this depth

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TABLE 2 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL BORING SAMPLE OVA RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Sample Depth Below Land Surface (feet)	Soil Sample I.D. Number - Area E		
	ERS1-SB-E01-G	ERS1-SB-E02-G	ERS1-SB-E03-G
0 - 1	26	9.6	78
1 - 2	3	2	24
2 - 3	7.8	2.5	34
3 - 4	7.8	2.8	12
4 - 5	8.4	3.4	22
5 - 6	34	7.4	14
6 - 7	44	6.8	22
7 - 8	56	5.2	20
8 - 9	*	*	*

* - Sample not collected at this depth

TABLE 3

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
EPA SURFICIAL SOIL SAMPLE OVA RESULTS

Date	Soil I.D. Number	Depth Collected Below Land Surface (feet)	OVA Reading (ppm)
3/3/94	SFL1	0.5 - 1.0	26
3/3/94	SFL2	0.5 - 1.0	0.4
3/3/94	SFL3	0.5 - 1.0	0.3
3/3/94	TR-1	0.5 - 1.0	2.2
3/3/94	TR-2	0.5 - 1.0	6.2
3/3/94	TF-1	0.5 - 1.0	48.0
3/3/94	TF-2	0.5 - 1.0	66
3/3/94	TF-3	0.5 - 1.0	>1000
3/3/94	TF-4	0.5 - 1.0	260
3/3/94	TF-5	0.5 - 1.0	110
3/3/94	TF-6	0.5 - 1.0	220
3/3/94	TF-7	0.5 - 1.0	>1000
3/3/94	F1	0.5 - 1.0	400
3/3/94	TF-8	0.5 - 1.0	>1000

TABLE 4

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL SAMPLE ANALYTICAL RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number Area A - Surface Sample	Analytical Parameters						
	Acetone	Ethyl-benzene	MEK	Toluene	Trichloro-ethylene	1,1,1-Tri-chloroethane	Xylene
ERS1-SS-A04-GS	ND	470	ND	1600	710	ND	2400
ERS1-SS-A08-G	.051	.940	.008	.211	.060	.018	4.2
ERS1-SS-A09-G	.036	.022	ND	.100	.320	.090	.110
ERS1-SS-A13-G	ND	ND	ND	.008	.220	.033	ND
Area A - Boring Sample							
ERS1-SB-A01-GS-78	43	ND	15	ND	ND	ND	.600
ERS1-SB-A02-GS-23	ND	ND	ND	ND	.017	ND	ND
ERS1-SB-A03-G-56	.013	ND	.009	ND	.003	ND	ND
Area B - Surface Sample							
ERS1-SS-B02-GS	ND	ND	ND	ND	ND	.034	ND
ERS1-SS-B05-G	ND	.003	ND	.028	.163	.019	.016
EPA CLEANUP STANDARD	500	500	500	500	50	250	500

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TABLE 4 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL SAMPLE ANALYTICAL RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number Area C - Boring Sample	Analytical Parameters						
	Acetone	Ethyl-benzene	MEK	Toluene	Trichloro-ethylene	1,1,1-Tri-chloroethane	Xylene
ERS1-SB-C03-D-01	.130	.009	.037	ND	.006	ND	.076
Area D - Surface Sample							
ERS1-SS-D02-G	.076	ND	ND	.016	.200	.033	.005
ERS1-SS-D07-GS	.031	ND	ND	ND	.090	.014	ND
ERS1-SS-D08-G	.022	ND	ND	ND	.062	.007	ND
Area D - Boring Sample							
ERS1-SB-D02-G-78	ND	ND	ND	ND	.045	.011	ND
ERS1-SB-D03-G-01	.044	ND	ND	ND	.007	ND	ND
Area E - Surface Sample							
ERS1-SS-E03-GS	ND	6	ND	6	1.2	43	57
ERS1-SS-E05-G	ND	ND	ND	ND	.036	ND	ND
ERS1-SS-E05-D	ND	ND	ND	ND	.110	.061	ND
EPA CLEANUP STANDARD	500	500	500	500	50	250	500

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TABLE 4 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL SAMPLE ANALYTICAL RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number Area B - Boring Sample	Analytical Parameters						
	Acetone	Ethyl-benzene	MEK	Toluene	Trichloro-ethylene	1,1,1-Tri-chloroethane	Xylene
ERS1-SB-B01-GS-23	ND	1.5	ND	5.2	.210	1.3	7.7
ERS1-SB-B01-GS-78	.013	.002	.015	.009	.100	.008	.016
ERS1-SB-B02-G-67	ND	ND	ND	ND	.033	ND	ND
ERS1-SB-B03-G-56	.020	ND	.017	.019	.120	.019	.006
Area C - Surface Sample							
ERS1-SS-C05-GS	ND	1.5	ND	2.6	.120	ND	10
ERS1-SS-C09-G	.013	.015	.029	.062	.110	.049	.075
ERS1-SS-C10-G	ND	ND	ND	ND	740	ND	ND
Area C - Boring Sample							
ERS1-SB-C01-GS-78	19	ND	130	ND	ND	ND	3.8
ERS1-SB-C02-GS-67	ND	ND	ND	ND	ND	ND	ND
ERS1-SB-C03-G-01	.050	.006	.020	ND	.012	ND	0.54
EPA CLEANUP STANDARD	500	500	500	500	50	250	500

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TABLE 4 (continued)

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
WCC SOIL SAMPLE ANALYTICAL RESULTS (PPM)
SAMPLES COLLECTED ON MARCH 3 - 6, 1994

Soil Sample I.D. Number Area E - Boring Sample	Analytical Parameters						
	Acetone	Ethyl-benzene	MEK	Toluene	Trichloro-ethylene	1,1,1-Tri-chloroethane	Xylene
ERS1-SB-E01-G-78	ND	ND	ND	ND	ND	ND	ND
ERS1-SB-E02-G-01	ND	ND	ND	ND	.024	.024	ND
ERS1-SB-E03-G-01	ND	.004	ND	.006	.072	.007	.038
EPA CLEANUP STNADARD	500	500	500	500	50	250	500

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TABLE 5

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results (ppb)				
	A16	C16	C17	C18	F1
Benzoic Acid	ND[1]	ND	ND	ND	ND
4-Chloro-3-Methylphenol	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND
2,6-Dichlorophenol	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND
4,6-Dinitro-2-Methylphenol	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND	ND
4-Methylphenol	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND

ND = Non Detect

TABLE 5

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results (ppb)				
	A16	C16	C17	C18	F1
Acetophenone	ND	ND	ND	ND	ND
4-Aminobiphenyl	ND	ND	ND	ND	ND
Aniline	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND
Benzidine	ND	ND	ND	ND	ND
Benzo (A) Anthracene	ND	ND	ND	ND	ND
Benzo (A) Pyrene	ND	ND	ND	ND	ND
Benzo (B) Fluoranthene	ND	ND	ND	ND	ND
Benzo (G,H,I) Perylene	ND	ND	ND	ND	ND
Benzo (K) Flouranthene	ND	ND	ND	ND	ND
Benzyl Alcohol	ND	ND	ND	ND	ND
Bis(2-Chlorethoxy) Methane	ND	ND	ND	ND	ND
Bis(2-Chlorethyl) Ether	ND	ND	ND	ND	ND
Bis(2-Chloroisopropyl) Ether	ND	ND	ND	ND	ND
Bis(2-Ethylexyl) Phthalate	1700	4400	2000	ND	ND
4-Bromophenyl Phenyl Ether	ND	ND	ND	ND	ND
Butylbenzyl Phthalate	ND	ND	700	550	ND
4-Chloroaniline	ND	ND	ND	ND	ND
1-Chloronaphthalene	ND	ND	ND	ND	ND

ND = Non Detect

TABLE 5

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results (ppb)				
	A16	C16	C17	C18	F1
2-Chloronaphthalene	ND	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND
Dibenz (A,J) Acridine	ND	ND	ND	ND	ND
Dibenzo (A,H) Anthracene	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	ND
Diethylphthalate	ND	ND	ND	ND	ND
P-Dimethylaminoazobenzene	ND	ND	ND	ND	ND
7,12-Dimethylbenz(A) Anthracene	ND	ND	ND	ND	ND
A-,A-Dimethylphenethylamine	ND	ND	ND	ND	ND
Dimethylphthalate	ND	ND	ND	ND	ND
DI-N-Butylphthalate	2300	2000	1900	1200	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND
DI-N-Octylphthalate	ND	ND	ND	ND	ND

ND = Non Detect

TABLE 5

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results (ppb)				
	A16	C16	C17	C18	F1
Diphenylamine	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND
Indeno (1,2,3-CD) Pyrene	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND
3-Methylcholanthrene	ND	ND	ND	ND	ND
2-Mehtylnaphthalene	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND
1-Naphthylamine	ND	ND	ND	ND	ND
2-Naphthylamine	ND	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND	ND
4-Nitroaniline	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND

ND = Non Detect

TABLE 5

ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI
SVOC SOIL SAMPLE RESULTS
SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results (ppb)				
	A16	C16	C17	C18	F1
N-Nitrosodimethylamine	ND	ND	ND	ND	ND
N-Nitrosodi-N-Butylamine	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND
N-Nitroso-DI-N-Propylamine	ND	ND	ND	ND	ND
N-Nitrosopiperidine	ND	ND	ND	ND	ND
Penthachlorobenzene	ND	ND	ND	ND	ND
Pentachloronitrobenzene (PCNB)	ND	ND	ND	ND	ND
Phenacetin	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND
2-Picoline	ND	ND	ND	ND	ND
Pronamide	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND

ND = Non Detect

TABLE 6

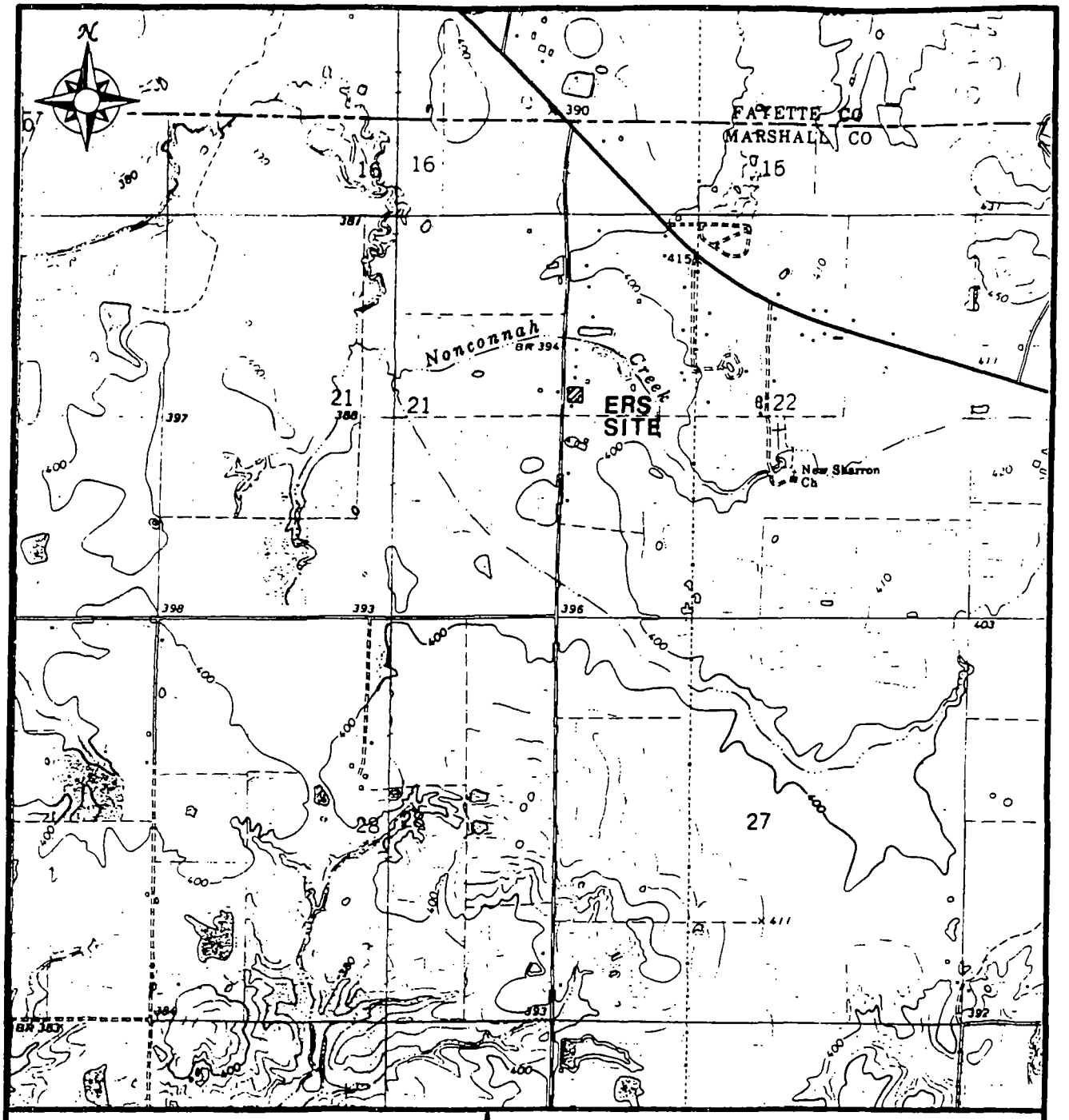
ENTERPRISE RECOVERY SYSTEMS - BYHALIA, MISSISSIPPI

RCRA METALS

SAMPLES COLLECTED ON NOVEMBER 3, 1994

Parameter	Results (mg\kg)				
	A16	C16	C17	C18	F1
Silver	ND[1]	ND	1	ND	ND
Arsenic	ND	ND	6	7	ND
Barium	96	87	65	70	56
Cadmium	0.5	ND	ND	ND	ND
Chromium	24	20	17	15	10
Mercury	ND	ND	ND	ND	ND
Lead	32	24	18	17	11
Selenium	ND	ND	ND	ND	ND

ND = Non Detect



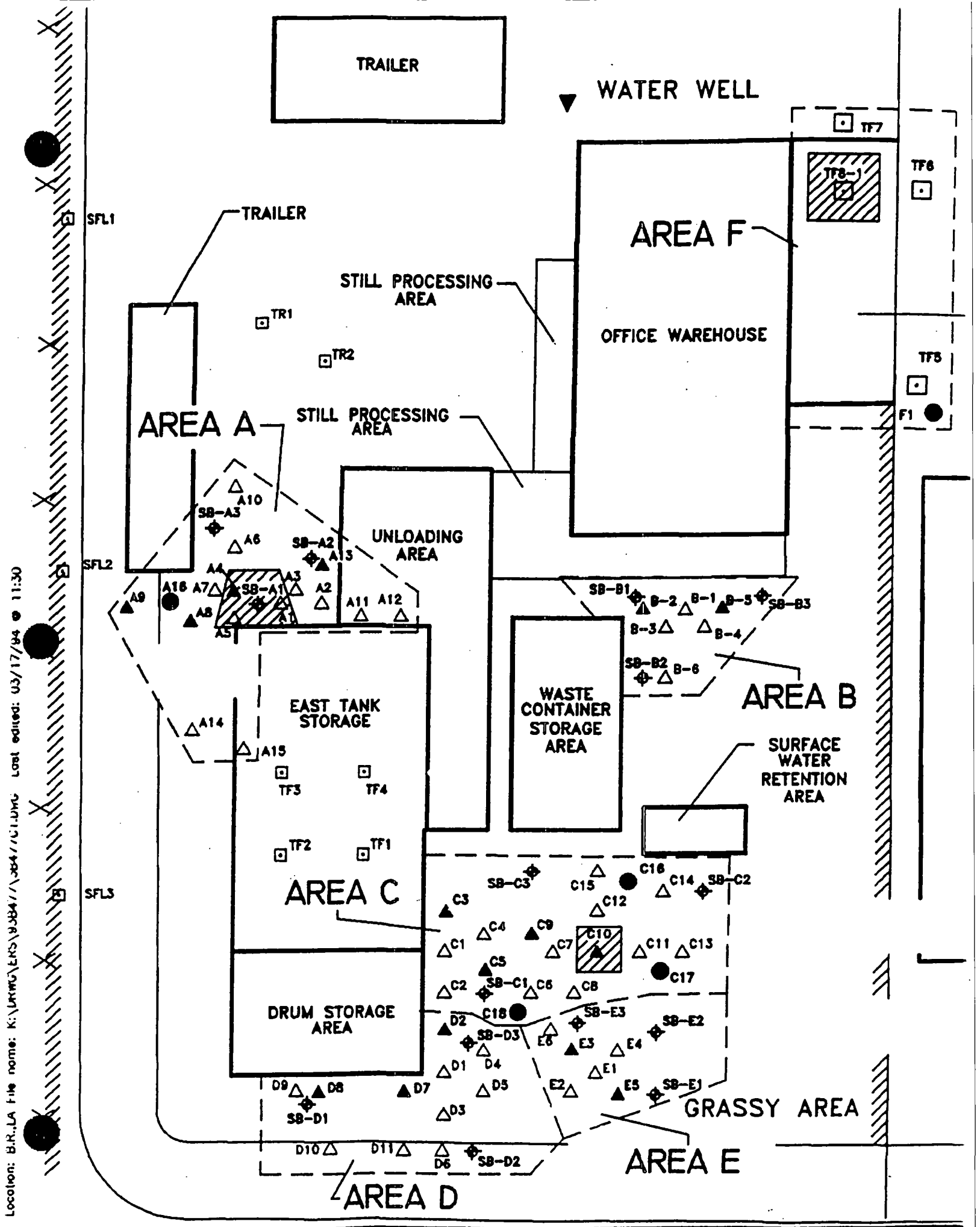
ENTERPRISE RECOVERY SYSTEMS
Route 5, Box 287
Cayce Road
Byhalia, Mississippi

MAP SOURCE
USGS 7.5 Minute Quadrangle Maps:
Mt. Pleasant, Miss - Tenn 1971
Byhalia NW, Miss - Tenn 1971

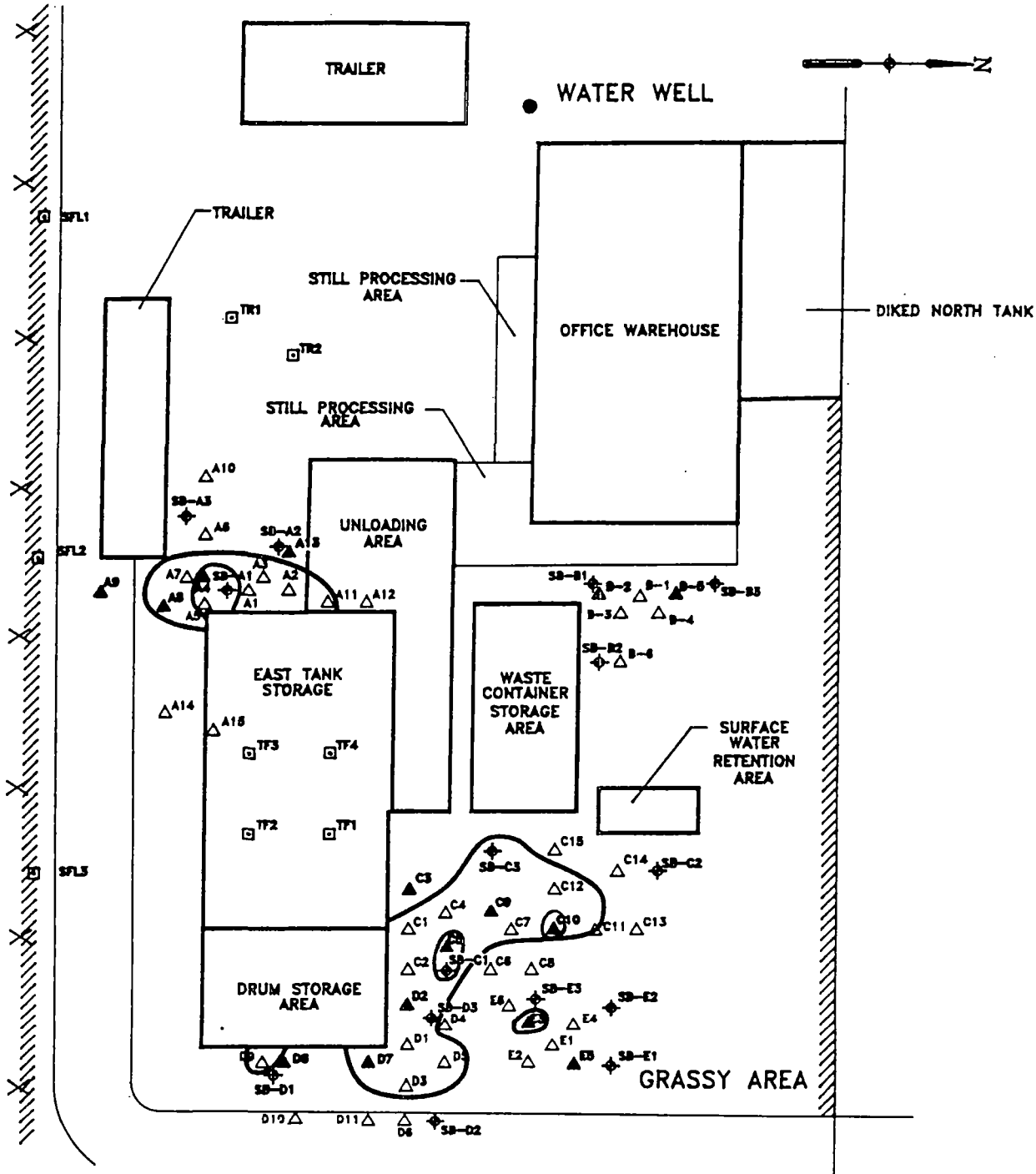
SITE LOCATION MAP

WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologist, and Environmental Scientists
Jackson, Mississippi

DR. BY: ACE	SCALE: 1"=2,000'	PROJ. NO: 93B477
CHK. BY:	DATE: 4/21/95	FIG. NO: 1



Location: B.R.,LA File name: K:\DRWG\ERS\938477\38477C1.DWG Last edited: 03/17/94 @ 11:30



LEGEND

- △ SURFICIAL SAMPLE HEADSPACE ONLY
- ▲ SURFICIAL SAMPLE HEADSPACE AND VOC ANALYSIS
- ✦ SOIL BORING
- ⊡ EPA HEADSPACE SAMPLE
- OVA READINGS OF >100 ppm
- OVA READINGS OF >1000 ppm

SCALE: 1 INCH=40 FEET

40' 0 40'

Location: B.R.LA File name: K:\DRWG\ERS\93B477\3B477C01.DWG Last edited: 04/06/94 @ 12:26

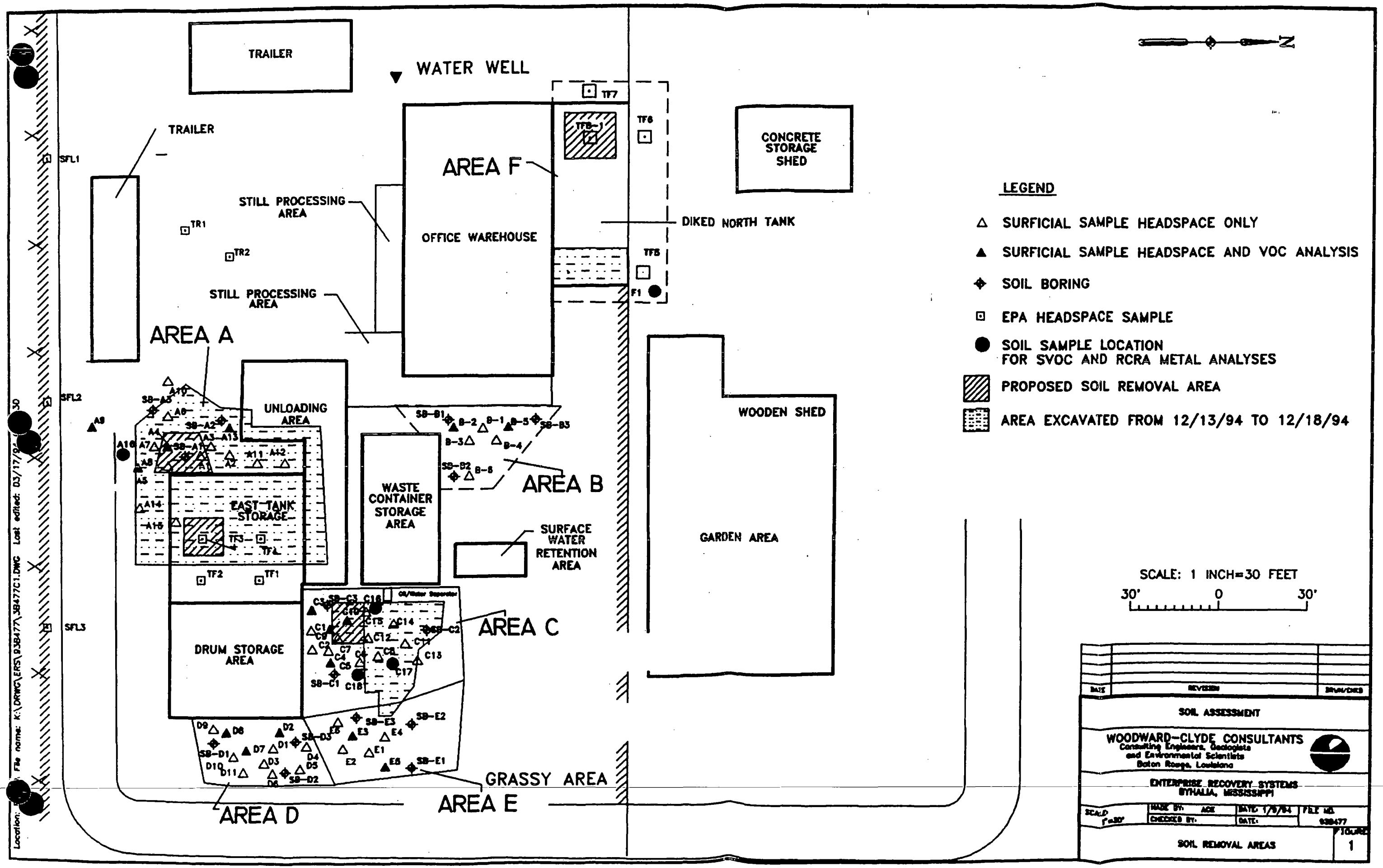
ENTERPRISE RECOVERY SYSTEMS BYHALIA, MISSISSIPPI	**Woodward-Clyde Consultants** Consulting Engineers, Geologists and Environmental Scientists Baton Rouge, Louisiana	SURFICIAL SOIL OVA READINGS	FILE NO. 93B477
	SCALE: NOTED / DRAWN BY: G.T. / DATE: 4/6/94 / CHKD. BY: CBD / DATE: 4/6/94		FIG. NO. 3

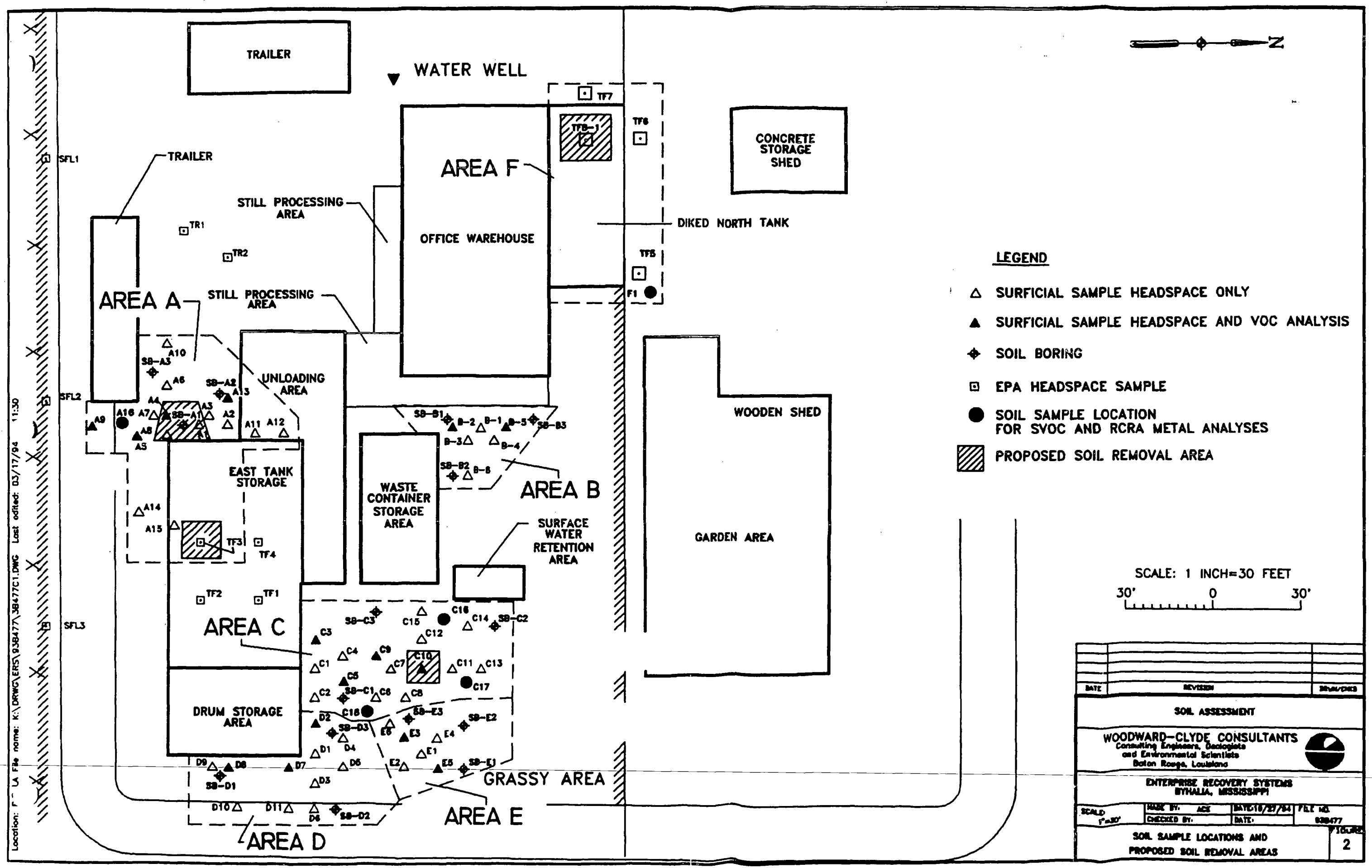
ENTERPRISE RECOVERY SYSTEM SITE
SOIL REMOVAL WORKPLAN - ADDENDUM NO. 1

This addendum pertains to the revised Soil Removal Workplan for the Enterprise Recovery Systems (ERS) Site located in Byhalia, Mississippi. One additional location within Area A will be included as part of the proposed soil removal activities. This location was identified by the EPA-OSC as soil sample TF-3 and is identified in the revised Figure 2 (see attachment). The rational for determining the volume of soil removal in this area will be the same as proposed for the previously identified areas. The revised initial estimated volume of soil to be removed at each location is as follows:

Sample Location	Soil Volume (cubic yards)
ERS1-SS-A1-G	30.0
ERS1-SS-C10-G	10.5
TF8-1	25.0 (estimated)
TF-3	25.0 (estimated)
TOTAL	**90.5**

As stated in the revised workplan, the exact volume of soil removed will depend on the laboratory verification sample results to define the areal extent and depth of excavation during the soil removal activities. These sample results will document attainment of the EPA cleanup standards issued in the Administrative Order of Consent dated September 27, 1993.


TRAILER
WATER WELL
TRAILER
SFL1
SFL2
SFL3
STILL PROCESSING AREA
TR1
TR2
STILL PROCESSING AREA
AREA A
AREA F
OFFICE WAREHOUSE
TF7
TF8
TF6
TF5
F1
DIKED NORTH TANK
CONCRETE STORAGE SHED
WOODEN SHED
GARDEN AREA
UNLOADING AREA
EAST TANK STORAGE
TF3
TF4
TF2
TF1
WASTE CONTAINER STORAGE AREA
SURFACE WATER RETENTION AREA
AREA B
AREA C
DRUM STORAGE AREA
GRASSY AREA
AREA D
AREA E
LEGEND
SURFICIAL SAMPLE HEADSPACE ONLY
SURFICIAL SAMPLE HEADSPACE AND VOC ANALYSIS
SOIL BORING
EPA HEADSPACE SAMPLE
SOIL SAMPLE LOCATION FOR SVOC AND RCRA METAL ANALYSES
PROPOSED SOIL REMOVAL AREA
AREA EXCAVATED FROM 12/13/94 TO 12/18/94
SCALE: 1 INCH=30 FEET
30' 0 30'
SOIL ASSESSMENT
WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists
Baton Rouge, Louisiana
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SCALE 1"=30'
DRAWN BY: AGE
DATE: 1/9/94
FILE NO. 938477
CHECKED BY:
DATE:
SOIL REMOVAL AREAS
FIGURE 1
Location: File name: K:\DRWG\ERS\938477\38477C1.DWG Last edited: 03/17/94


TRAILER
WATER WELL
TF7
TF6
TF8-1
CONCRETE STORAGE SHED
AREA F
OFFICE WAREHOUSE
DIKED NORTH TANK
TF5
F1
SFL1
TRAILER
STILL PROCESSING AREA
TR1
TR2
AREA A
STILL PROCESSING AREA
UNLOADING AREA
SFL2
A10
SB-A3
A6
SB-A2
A13
A4
A3
A2
A16
A7
SB-A1
A1
A9
A8
A5
A11
A12
SB-B1
B-2
B-1
B-5
SB-B3
B-3
B-4
SB-B2
B-6
AREA B
WASTE CONTAINER STORAGE AREA
EAST TANK STORAGE
A14
A15
TF3
TF4
SURFACE WATER RETENTION AREA
WOODEN SHED
GARDEN AREA
TF2
TF1
SFL3
AREA C
SB-C3
C16
C15
C14
SB-C2
C12
C3
C4
C9
C7
C10
C11
C13
C1
C5
C17
C2
SB-C1
C6
C8
DRUM STORAGE AREA
C18
SB-E3
SB-E2
D2
SB-D3
E6
E3
E4
D1
D4
E1
D9
D8
D7
D6
E2
E5
SB-E1
SB-D1
D3
GRASSY AREA
D10
D11
D5
SB-D2
AREA E
AREA D
LEGEND
SURFICIAL SAMPLE HEADSPACE ONLY
SURFICIAL SAMPLE HEADSPACE AND VOC ANALYSIS
SOIL BORING
EPA HEADSPACE SAMPLE
SOIL SAMPLE LOCATION FOR SVOC AND RCRA METAL ANALYSES
PROPOSED SOIL REMOVAL AREA
SCALE: 1 INCH=30 FEET
30' 0 30'
DATE
REVISION
SOIL ASSESSMENT
WOODWARD-CLYDE CONSULTANTS
Consulting Engineers, Geologists and Environmental Scientists
Baton Rouge, Louisiana
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SCALE 1"=30'
MADE BY: ACS
CHECKED BY:
DATE: 10/27/94
FILE NO. 938477
SOIL SAMPLE LOCATIONS AND PROPOSED SOIL REMOVAL AREAS
FIGURE 2
Location: F:\LA File name: K:\DRWG\ERS\938477\38477C1.DWG Last edited: 03/17/94 11:30

ENTERPRISE RECOVERY SYSTEM SITE
SOIL REMOVAL WORKPLAN - ADDENDUM NO. 2

This second addendum to the ERS Soil Removal Workplan addresses additional characterization and soil sampling in Area F (see attached map) and consolidating soils in Area C above the action limit designated in the AOC with soils above the action limit in Area A.

Soil removal activities were performed at the ERS site from December 13 through 18, 1994. During these activities, approximately 1,183 yards^3 of soil were removed primarily from Areas A and C. The anticipated volume of soil removal was estimated to be 90.5 yards^3 based on the soil screening results obtained during the March 1994 assessment activities. Due to the significant increase in the volume of soil removed in Areas A and C during the soil removal activity, additional soil sampling will be conducted in Area F to define the horizontal and vertical boundaries of soil in this area above the action limit. This sampling will be conducted as follows:

An excavator will be used to obtain soil samples at depths of 3, 6, 9, 12, and 15 feet from within the boundary previously defined by the concrete pad in Area F. These samples will be analyzed using EPA Method 8240.

Four soil samples will be collected from the west and east sides of Area F approximately five to eight feet from the edge of the old concrete pad. These samples will be collected at depths of 3 and 6 feet. Two sample locations will be collected from the northern side of Area F approximately five to eight feet north of the old concrete pad. All soil samples will be analyzed using EPA Method 8240.

Based on the analytical results for the north, east and west boundary in Area F, additional soil samples may be collected at a distance of 10 to 15 feet from the old concrete pad to define the area above the AOC action limits. This assessment will continue in 5 to 10 foot increments until Area F has been defined.

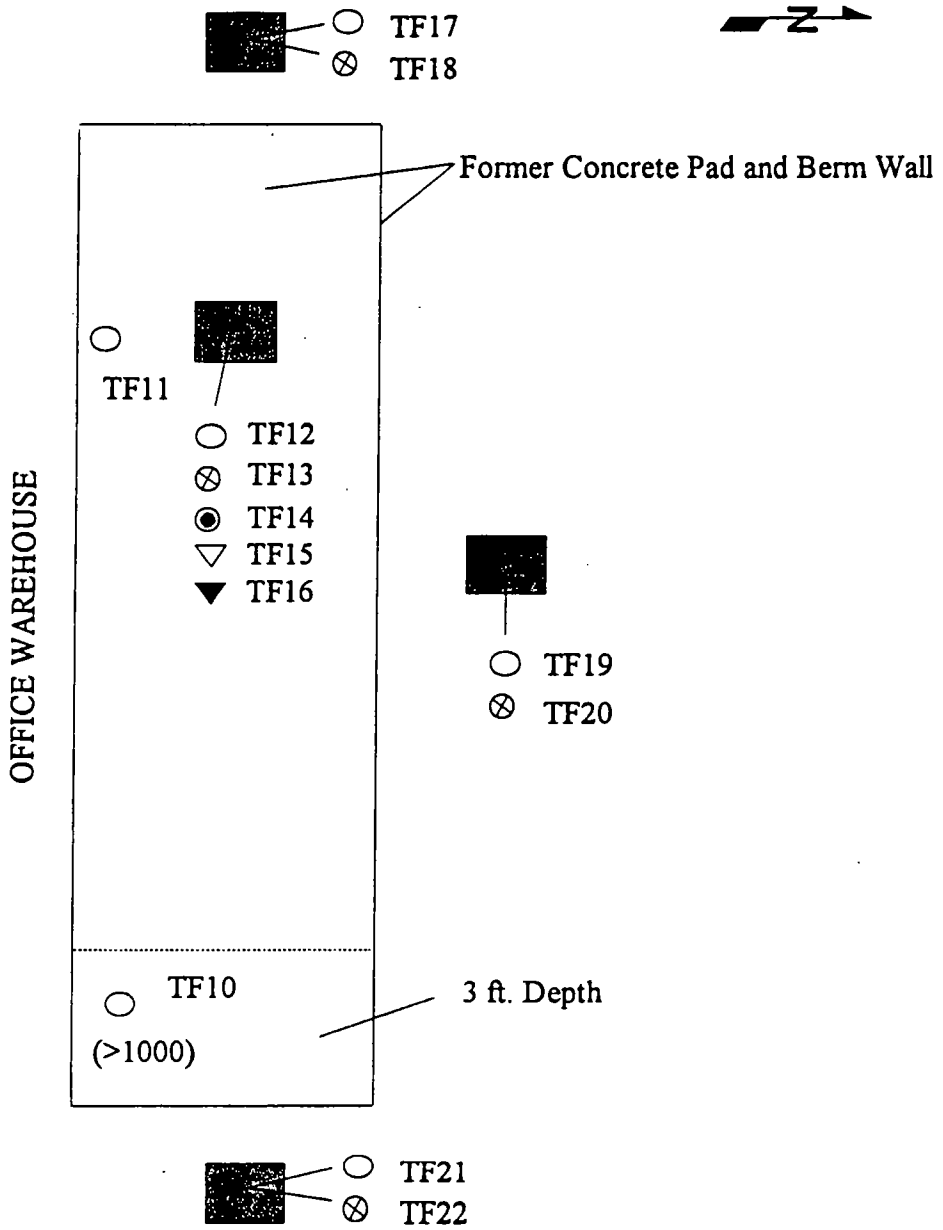
Confirmation soil sample results collected in Area C indicates the soils in the northwest corner of the excavation area is above the AOC action limits. Confirmation samples in Area C collected along the bottom of the excavation, and the northeast, east, west and south side walls were below the action limits. Soils above the action limit in Area C will be excavated and consolidated with soils in Area A above the action limit. This will allow Area C to be properly closed by lining with visqueen and filled with clean backfill material.

will be futher characterized to determine the horizontal and vertical extent of

pertains to the revised Soil Removal Workplan for the Enterprise Recovery Systems (ERS) Site located in Byhalia, Mississippi. One additional location within Area A will be included as part of the proposed soil removal activities. This location was identified by the EPA-OSC as soil sample TF-3 and is identified in the revised Figure 2 (see attachment). The rational for determining the volume of soil removal in this area will be the same as proposed for the previously identified areas. The revised initial estimated volume of soil to be removed at each location is as follows:

Sample Location	Soil Volume (cubic yards)
ERS1-SS-A1-G	30.0
ERS1-SS-C10-G	10.5
TF8-1	25.0 (estimated)
TF-3	25.0 (estimated)
TOTAL	**90.5**

As stated in the revised workplan, the exact volume of soil removed will depend on the laboratory verification sample results to define the areal extent and depth of excavation during the soil removal activities. These sample results will document attainment of the EPA cleanup standards issued in the Administrative Order of Consent dated September 27, 1993.



LEGEND

○ TF12	3 Foot Sample Depth, Sample I.D.	Sample Pit
⊗ TF13	6 Foot Sample Depth, Sample I.D.	
◉ TF14	9 Foot Sample Depth, Sample I.D.	
▽ TF15	12 Foot Sample Depth, Sample I.D.	
▼ TF16	15 Foot Sample Depth, Sample I.D.	

AREA F

SOIL SAMPLE LOCATIONS

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

DR. BY: ACE	SCALE: 1" = 8'	PROJ. NO: 93B477
CHK. BY:	DATE: 1/7/95	FIG. NO: 1

ENTERPRISE RECOVERY SYSTEM SITE
SOIL REMOVAL WORKPLAN - ADDENDUM NO. 3

This addendum modifies the ERS Soil Removal Workplan based on information obtained during soil removal activities performed at the site from December 13 through 19, 1994. During this period, approximately 1,183 cubic yards of soil were removed primarily from Areas A and C. Analytical soil sample results have documented that soil removal activities in Area A have been completed. Areas C and F were also addressed during the initial soil removal and the following activities will be performed to complete the requirements of the Administrative Order on Consent (AOC).

Area C

Approximately 250 cubic yards of soil were excavated from Area C. Two post excavation soil confirmation samples (C25 and C26) collected along the eastern portion of the excavation contained concentrations of 1,1,1-trichloroethane and trichloroethylene above their respective action limits in the AOC. Following excavation, the Area C excavation was flooded with stormwater on December 22, 1994 and is presently full of water.

Prior to continuing excavation activities, the eastern portion of the Area C excavation will be assessed using a direct push soil sample technology (e.g., hydropunch or geoprobe). These soil samples will be obtained approximately three feet north and south of the excavation perimeter adjacent to the two locations where sidewall composite soil sample C25 was obtained (see attached Figure 1, Table 1). These two soil samples will be collected at a depth of 12 feet which is the same depth that composite sample C25 was obtained from the two sidewalls. Sample C26 was obtained from a depth of approximately six feet below the pipe discovered during the excavation in Area C. Accordingly, additional soil samples in this area will be obtained at a depth of six feet at two locations (on either side of the pipe) approximately three feet to the east of sample C26. If these sample results are above the AOC action limits, a second set of soil samples will be obtained approximately nine feet from the present excavation perimeter. All soil samples will be analyzed for volatile organics (EPA method 8240) using an on-site field laboratory. The intent of this additional sampling activity is to define the limits of any remaining contamination along the eastern portion of the excavation in Area C. This sampling approach will also eliminate the need for additional post excavation confirmation sampling.

During the assessment phase, the water in excavation Area C will be analyzed for volatile organics and properly handled. Immediately following the excavation activities, Area C and Area A will be backfilled using a clean backfill material.

Area F

Approximately 80 tons of soil were removed from Area F during the initial soil removal activities. Due to wet weather and poor soil conditions during the initial soil removal activity, heavy equipment use was very limited and restricted in this area. However, thirteen soil samples (TF10-TF22) were collected in and around Area F at depths ranging from 3 to 15 feet below land surface. These soil samples represent the first comprehensive set of data collected in Area F. Results from these soil samples indicate that only one soil sample collected within Area F, at 6 feet below land surface, was above the AOC action limit for 1,1,1-trichloroethane (see attached Figure 2 and Table 2). Because soil samples collected immediately above and below this sample did not exceed an AOC action level, this one soil sample represents an anomalous condition in the soil, and is not representative of the soil conditions in Area F. Based on these results, Area F does not represent an immediate soil contaminant concern and additional excavation in this area is not warranted.

Schedule of Activities

Following approval of this addendum by the EPA, the following activities will be performed at the site in accordance with the estimated time schedule presented below. Subcontractors have been contacted and the estimated schedule has been confirmed. However, unforeseen circumstances could affect implementation of this work

ACTIVITIES	CUMULATIVE DAYS
Notify soil probing subcontractor and begin assessment in Area C - 10 days	10
Complete soil probing activities and collect water in Area C pit for analysis - 3 days	13
Review soil and water sample results, and determine appropriate option for removing water from the pit - 14 days	27
Complete water removal from the Area C pit - 10 days Notify excavation subcontractor of tentative start date during water removal activity	37
Mobilize to the site for final excavation activities - 7 days	44
Complete soil removal in Area C, backfill Areas A and C, disc and seed the soil removal areas - 7 days	51
Complete soil removal report and submit to EPA - 30 days	81
Total Number of Days to Complete Site Activities	81

TABLE 1

ENTERPRISE RECOVERY SYSTEMS
VERIFICATION SAMPLE RESULTS[1]

AREA C

Sample I.D.	Date	Acetone	Ethylbenzene	MEK[2]	Toluene	Trichloroethylene[3]	1,1,1-Trichloroethane	Xylenes	OVA[4]
ERS1-S-C20-SWC[5]	15-Dec-94	ND[6]	0.009	ND	0.09	0.61	0.08	0.04	120
ERS1-S-C21-G[7]	15-Dec-94	ND	0.002J[8]	ND	0.01	3.86	0.16	0.003	400
ERS1-S-C22-SWC	15-Dec-94	ND	ND	ND	39.2	2,030	406	28.8	450
ERS1-S-C23-G	15-Dec-94	0.24	0.004J	0.05	0.03	0.78E[9]	0.04	0.03	>1000
ERS1-S-C24-G	15-Dec-94	ND	ND	ND	0.01	8.21	2.27	0.003J	>1000
ERS1-S-C25-SWC	15-Dec-94	ND	0.006	ND	0.03	98.9E	15.8	0.02	>1000
ERS1-S-C26-G	15-Dec-94	1.18E	0.66E	0.44	3.17	273E	9.9	3.04	>1000
ERS1-S-C27-G	20-Dec-94	ND	ND	ND	ND	ND	ND	ND	78
ERS1-S-C28-G	20-Dec-94	ND	ND	ND	ND	ND	ND	ND	20
ERS1-S-C29-G	20-Dec-94	ND	ND	ND	ND	0.10J	ND	ND	52
EPA CLEAN-UP STANDARD		500	500	500	500	50	250	500	>500[10]

1. Results are reported as parts per million (ppm).
2. MEK = Methyl Ethyl Ketone.
3. Trichloroethylene (Trichloroethene).
4. OVA = Organic Vapor Analyzer. A flame ionization detector (F.I.D.) used to detect organic vapors and measured in parts per million (ppm).
5. SWC = Sidewall Composite. Composite sample from sidewalls of excavation.
6. ND = Not Detected.
7. G = Grab sample (discrete sample).
8. J = Estimated Value. Presence of the compound was confirmed; less than the quantitation limit but greater than zero.
9. E = Concentration exceeds the established calibration limit.
10. OVA readings greater than 500 ppm constituted expansion of excavated area.

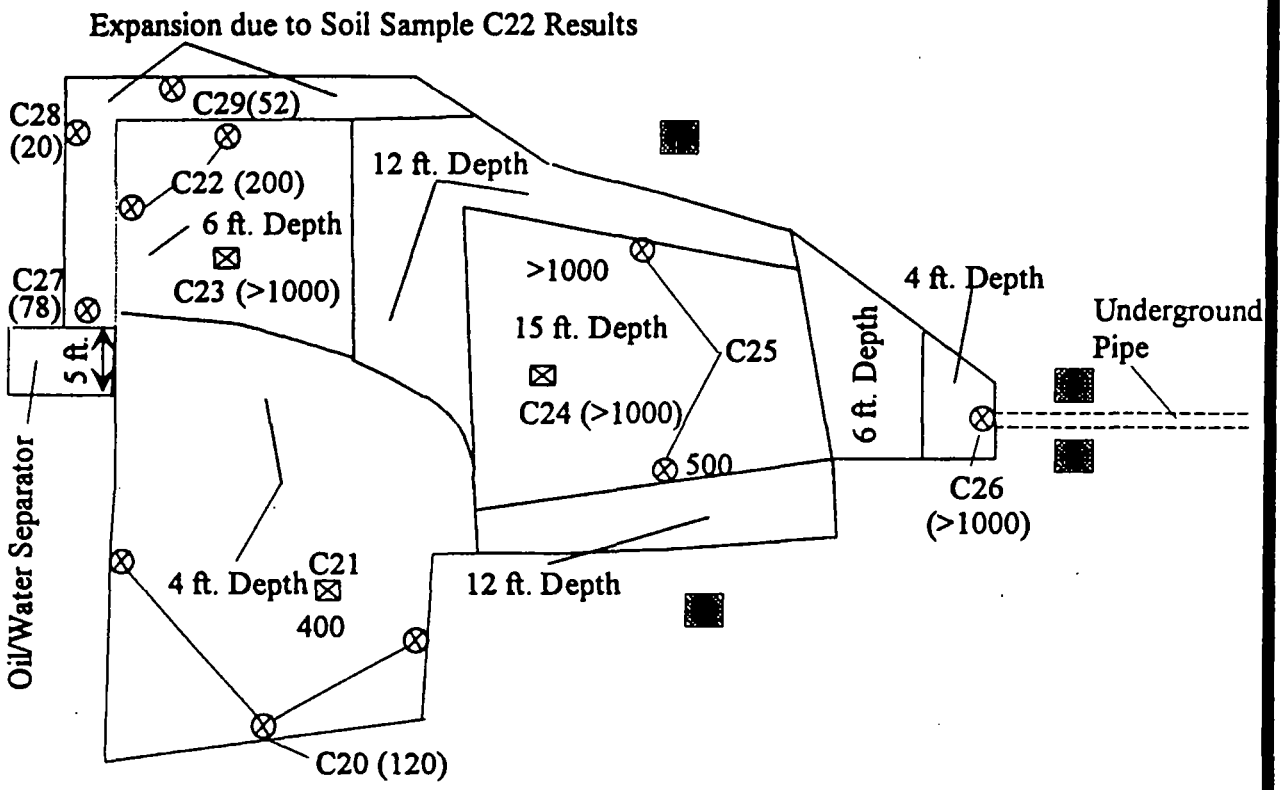
TABLE 2

ENTERPRISE RECOVERY SYSTEMS
VERIFICATION SAMPLE RESULTS[1]

AREA F

Sample I.D.	Date	Acetone	Ethylbenzene	MEK[2]	Toluene	Trichloroethylene[3]	1,1,1-Trichloroethane	Xylenes	OVA[4]
ERS1-S-TF10-G[5]	18-Dec-94	ND[6]	19.2	2.55J[7]	12.5	0.87	16.6	23.3	>1000
ERS1-S-TF11-G	18-Dec-94	ND	1.05	ND	1.58	0.79	24.3	7.15	>1000
ERS1-S-TF12-G	19-Dec-94	ND	ND	ND	ND	5.04	27.7	ND	>1000
ERS1-S-TF13-G	19-Dec-94	ND	ND	ND	1.44J	36.4	296E[8]	ND	>1000
ERS1-S-TF14-G	19-Dec-94	ND	ND	ND	ND	0.80	3.51	ND	>1000
ERS1-S-TF15-G	19-Dec-94	ND	ND	1.49J	0.18J	3.71	26.2E	0.15J	>1000
ERS1-S-TF16-G	19-Dec-94	ND	ND	ND	ND	ND	ND	ND	>1000
ERS1-S-TF17-G	19-Dec-94	ND	ND	ND	ND	0.21J	ND	ND	600
ERS1-S-TF18-G	19-Dec-94	ND	ND	ND	ND	0.14J	0.78	ND	710
ERS1-S-TF19-G	19-Dec-94	ND	ND	ND	ND	ND	0.24J	ND	6.5
ERS1-S-TF20-G	19-Dec-94	ND	ND	ND	ND	0.31J	1.76	ND	20
ERS1-S-TF21-G	19-Dec-94	ND	ND	ND	ND	0.51J	1.32	ND	>1000
ERS1-S-TF22-G	19-Dec-94	ND	ND	ND	ND	0.50J	0.77	ND	780
EPA CLEAN-UP STANDARD		500	500	500	500	50	250	500	>500[9]

1. Results are reported as parts per million (ppm).
2. MEK = Methyl Ethyl Ketone.
3. Trichloroethylene (Trichloroethene).
4. OVA = Organic Vapor Analyzer. A flame ionization detector (F.I.D.) used to detect organic vapors and measured in parts per million (ppm).
5. G = Grab Sample (discrete sample).
6. ND = Not Detected.
7. J = Estimated Value. Presence of the compound was confirmed; less than the quantitation limit but greater than zero.
8. E = Concentration exceeds the established calibration limit.
9. OVA readings greater than 500 ppm constituted expansion of the excavated area.

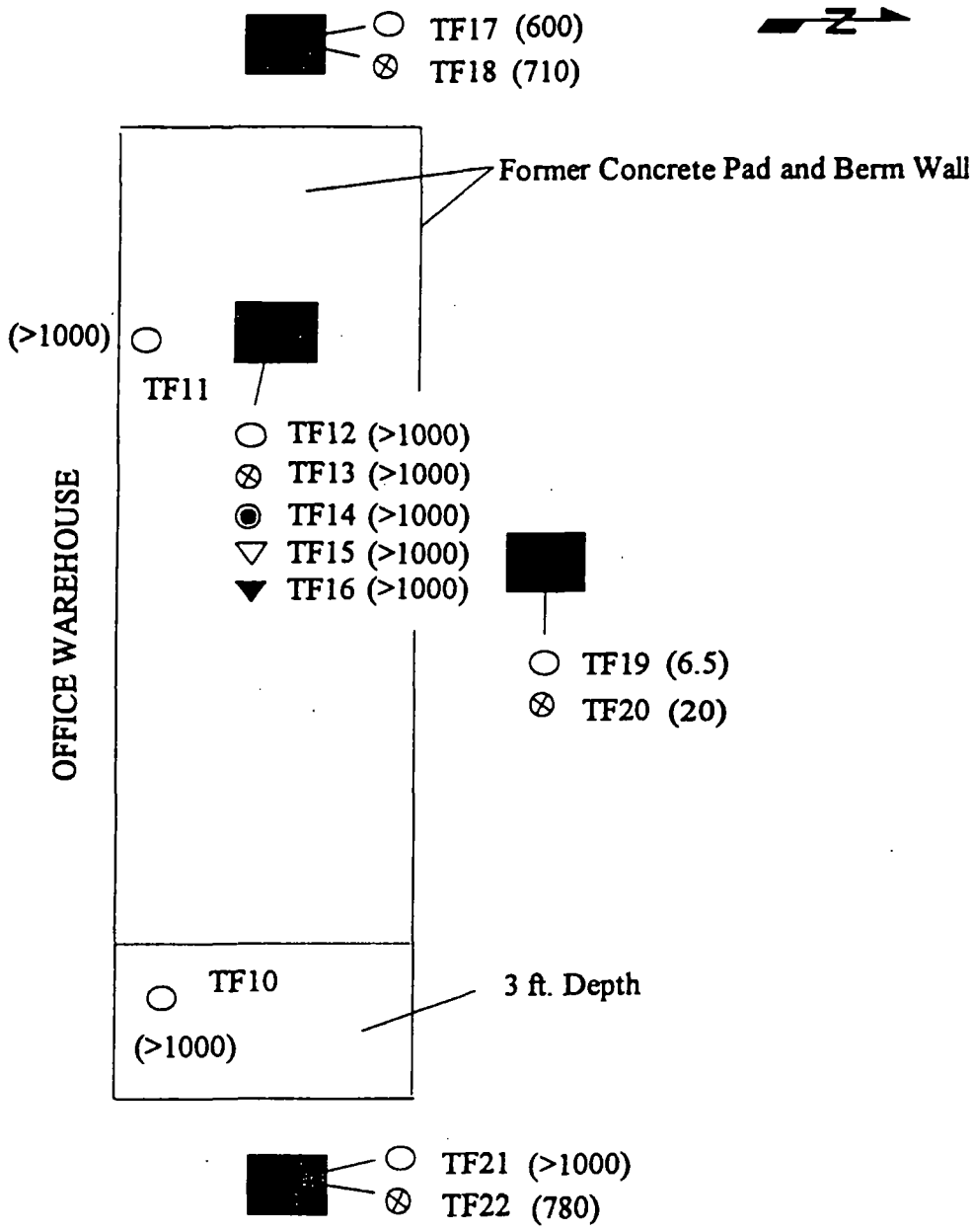


LEGEND

⊗ 980	OVA Wall Sample Location and Concentration (ppm)
⊠ 100	OVA Floor Sample Location and Concentration (ppm)
C22	Soil Sample Identification Number
■	Initial Sample Locations to Delineate Final Excavation

N

AREA C PROPOSED SOIL SAMPLE LOCATIONS	WOODWARD-CLYDE CONSULTANTS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS		
	DR. BY: ACE	SCALE: 1" = 7'	PROJ. NO: 93B477
	CHK. BY:	DATE: 1/7/95	FIG. NO: 1



LEGEND

- ○ TF12 (>1000) 3 Foot Sample Depth, Sample I.D., OVA Reading
- ⊗ TF13 (>1000) 6 Foot Sample Depth, Sample I.D., OVA Reading
- ◉ TF14 (>1000) 9 Foot Sample Depth, Sample I.D., OVA Reading
- ▽ TF15 (>1000) 12 Foot Sample Depth, Sample I.D., OVA Reading
- ▼ TF16 (>1000) 15 Foot Sample Depth, Sample I.D., OVA Reading

AREA F OVA READINGS AND SOIL SAMPLE LOCATIONS	WOODWARD-CLYDE CONSULTANTS CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS		
	DR. BY: ACE	SCALE: 1" = 8'	PROJ. NO: 93B477
	CHK. BY:	DATE: 1/7/95	FIG. NO: 2

WOODWARD-CLYDE CONSULTANTS

MEMORANDUM

To: Mr. Bob Rosen
EPA Region IV - Waste Division

From: Andrew Eversull
ERS - Project Coordinator

Office: Jackson, MS

Date: February 27, 1995

Subject: ERS - Addendum III Workplan Implementation

As per our telephone conversation on February 23, 1995, it is my understanding that EPA has verbally approved the Addendum III modifications to the Enterprise Recovery System (ERS) workplan. In addition, the concrete and soil pile currently on-site will be used as fill material in Areas A and/or C. Analytical results reported from samples collected in these piles indicate these materials are not hazardous. The concrete debris will be spread in the base of the pits to minimize void space during the backfilling process.

Please notify me by 5:00 p.m. (CST) on February 28, 1995 if you have any questions or comments regarding the Addendum III implementation of the workplan. On February 29, 1995, I will begin scheduling activities for implementing the Addendum III work if you do not have any comments.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

February 15, 1994

Mr. Jeff Bennett
En-Safe, Inc.
5724 Summer Trees Drive
Memphis, TN 38184-1315

Dear Mr. Bennett:

I have reviewed the soil sampling and analysis plan and the health and safety plan prepared by Woodward-Clyde Consultants for the soil characterization to be conducted at the Enterprise Recovery Systems site in Byhalia, Mississippi. I am satisfied that this work plan meets the requirements of the EPA Consent Order. As we discussed during our phone conversation earlier this afternoon, I intend to be present at ERS during the soil sampling. Please notify me as soon as you have set a tentative start date.

Sincerely,

Robert N. Rosen, OSC
Emergency Response and Removal Branch

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

# of pages ▶	
To Jeff Bennett	From Bob Rosen
Dept./Agency	Phone #
Fax # 901-372-2454	Fax #

NSN 7540-01-317 7368 5099-101 GENERAL SERVICES ADMINISTRATION

Printed on Recycled Paper

APPENDIX C-1

BULK MATERIAL SAMPLE AND PROFILE ANALYSIS

stopped at
Appendix C
2nd fldr

JAN-06-1994 08:49 ENSAFE MPHS 901 372 2454 P.02/05

9 Vulcan Road • Haskell
P.O. Box 729, Benton, AR 72015
Office (501) 778-9089 FAX (501) 778-8505

Account Rep: _____
Control #: _____
Approved _____ Rejected _____

AN1805

WASTE MATERIAL PROFILE SHEET

In accordance with the Federal and State regulations, it is necessary for the Generator of hazardous waste to properly identify the waste for their records as well as to supply the disposal facility with the information necessary to handle the waste. The information outlined below must be complete, and signed by the generator. PLEASE PRINT LEGIBLY OR TYPE.

Generator Name: ENTERPRISE Recovery System Site PRP Group USEPA I.D. NO: MSD000693176
Facility Address: R+S Box 287 State I.D. NO
By Halia, Ms. 38611 Phone: (901) 372-7962
Fax: ( )
Technical Contact: Jeff Bennett Title: X Project Coordinator
24 Hour Emergency Contact: Jeff E. Bennett 24 Hour Emergency Phone # ( )
Is this material located or generated in a foreign country? ☐ YES ☒ NO Date Notified: _____ Date To Be Accepted: _____
If YES, please provide exact foreign address: _____

I. GENERAL INFORMATION

Material Name: Waste Organic Solids - CERCLA

NO A. Does waste exhibit the characteristic of ignitability as defined in 40 CFR 261.21? WILL FLASH < 140°, NO FREE LIQUIDS
NO B. Does waste exhibit the characteristic of corrosivity as defined in 40 CFR 261.22?
NO C. Does waste exhibit the characteristic of reactivity as defined in 40 CFR 261.23?
Yes D. Is waste a spent solvent as defined in 40 CFR 261.31?
NO E. Is waste a discarded chemical product, off spec, container or spill residues as defined in 40 CFR 261.33?

Detailed description of process generating waste: Bulking of Solvent Soaked Soils at Remediation Project
Anticipated Monthly Volume: 3-5 Rolloffs/Once Method of shipment: ✓ Bulk ___ Drum ___ Other

II. MATERIAL COMPOSITION

COMPONENT	CONCENTRATIONS	
1,1,1 trichloroetane	1-50	%
Solvent cont. soil	20-70	%
Soil, debris, Rocks, paint chips	20-70	%
WATER (AS MOISTURE)	0-10	%
NO FREE LIQUID		

PLEASE INITIAL HERE X JB TOTAL MUST = 100%

IV. PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid ☒ Semi-Solid ☐ Liquid ☐
FREE LIQUID: ☐ YES ☒ NO
VISCOSITY: N/A ☐ Low ☐ Medium ☐ High
LAYERS: ☒ Single ☐ Bi-layered ☐ Multi-layered
ODOR: None ☐ Mild ☒ Strong ☒
DENSITY: _____
FLASHPOINT: ☐ < 73°F ☒ > 73°F < 140°F ☐ > 140°F < 200°F ☐ > 200°F
pH: ☐ < 2 ☐ > 12.5 ACTUAL: N/A (probably 5-9)

V. OTHER HAZARDOUS CHARACTERISTICS

☐ Explosive ☐ Radioactive ☐ Sulfide
☐ Shock Sensitive ☐ Etiological ☐ Dioxin
☐ Pyrophoric ☐ PCB
☐ Water Reactive ☐ Cyanide
NO

For your instructions we have requested that CWM OR Robbie D. Wood or other sub (Transporter) pick up the materials of Generator's facility set forth above and deliver the waste materials to Rineco's facilities located in Haskell, Arkansas. Generator acknowledges that Transporter is not affiliated in any way with Rineco and agrees that Transporter is acting solely on behalf of Generator as Generator's independent contractor. Title to and liability for waste materials conforming to the Waste Material Profile Sheet shall pass from Generator to Rineco when the unloading of the waste material by Transporter is properly completed. Title and liability for waste material not conforming to the Waste Material Profile Sheet shall at all times remain in Generator, unless Rineco agrees in writing to accept such non-conforming waste material.

12-6-~~94~~ 94 O.K. 93 This material was finally cleared at CWM under profile #AN 1805 at the Marrow, GA facility.

JAN-06-1994 08:49 ENSAFE MPHS 901 372 2454 P.03/05

1-10-94 Jeniece Case discussion

OT Hazardous Material: ✓ Yes ___ No
roper Shipping Name: RQ HAZARDOUS WASTE SOLID, NOS (1,1,1 Trichloroethane
lazard Class and Division: 9
IN or NA#: 3077 Packaging Group (PG): III
IQ: ✓ Yes ___ No If Yes: Varies ER Guide Page No. 31
USFPA HAZARDOUS WASTE ✓ Yes ___ No
Waste I.D. Numbers: F001 F002 F003 F005 D007 D008 D018

VII. INDICATE IF THIS WASTE CONTAINS ANY OF THE FOLLOWING CHARACTERISTICS AS DEFINED BY 40 CFR 261.24.

Check only if waste exceeds regulatory threshold levels and include analytical data, if available.

	Constituent	Regulatory Threshold Level, ppm	Analytical Data, ppm	Generator's Knowledge
D004	(Arsenic)	5.0		☐
D005	(Barium)	100.0		☐
D006	(Cadmium)	1.0		☐
D007	(Chromium)	5.0		☐
D008	(Lead)	5.0		☐
D009	(Mercury)	0.2		☐
D010	(Selenium)	1.0		☐
D011	(Silver)	5.0		☐
D012	Endrin	0.02		☐
D013	Lindane	0.4		☐
D014	Methoxychlor	10.0		☐
D015	Toxaphene	0.5		☐
D016	2,4D (2,4 Dichlorophenoxyacetic acid)	10.0		☐
D017	2,4,5 1,2 Silvex	1.0		☐
D018	Benzene	0.5		☑
D019	Carbon Tetrachloride	0.5		☐
D020	Chlordane	0.03		☐
D021	Chlorobenzene	100.0		☐
D022	Chloroform	6.0		☐
D023	o-Cresol	200.0		☐
D024	m-Cresol	200.0		☐
D025	p-Cresol	200.0		☐

	Constituent	Regulatory Threshold Level, ppm	Analytical Data, ppm	Generator's Knowledge
D026	Cresol	200.0		☐
D027	1,4-Dichlorobenzene	7.5		☐
D028	1,2-Dichloroethane	0.5		☐
D029	1,1-Dichloroethylene	0.7		☐
D030	2,4-Dinitrotoluene	0.13		☐
D031	Heptachlor (and its hydroxide)	0.008		☐
D032	Hexachlorobenzene	0.13		☐
D033	Hexachlorobutadiene	0.5		☐
D034	Hexachloroethane	3.0		☐
D035	Methyl ethyl ketone	200.0		☐
D036	Nitrobenzene	2.0		☐
D037	Pentachlorophenol	100.0		☐
D038	Pyridine	5.0		☐
D039	Tetrachloroethylene	0.7		☐
D040	Trichloroethylene	0.5		☐
D041	2,4,5-Trichlorophenol	400.0		☐
D042	2,4,6-Trichlorophenol	2.0		☐
D043	Vinyl Chloride	0.2		☐

AUTHORIZATION TO CORRECT WASTE MATERIAL PROFILE SHEET: In the event Rineco determines that it is necessary to make corrections on this Waste Material Profile Sheet to make the information contained herein consistent with the results of the sample characterization and/or applicable federal and state statutes and regulations, Rineco will contact Generator and receive oral authorization to make such corrections. Rineco will send a corrected copy of the Waste Material Profile Sheet to Generator. Generator ☑ does ☐ does not hereby authorize Rineco to make such changes pursuant to this paragraph.

SRG
(Initials)

GENERATOR CERTIFICATION:

The above information is to be held confidential and is true and accurate to the best of my knowledge.

Signature: X [signature] Date: 1-4-94

Print Name: X Jeff Bennett Title: Project Coordinator

THIS CERTIFICATION / RECERTIFICATION IS REQUIRED FOR EACH PROFILE.
ORIGINAL SIGNATURE REQUIRED

Rineco

Benzene Waste Operations
NESHAP's Certification

Generator Name Enterprise Recovery System

Profile # Waste Organic Solids - CERCLA Manifest # _____

A. Does this waste stream contain Benzene?

Yes ✓ No ___

B. Does this waste stream have a Benzene concentration greater than 10 ppm?

Yes ✓ No ___ 92 PPM

If no, also check "No" in item F below. You have now completed this form, sign and return.

C. Does your waste contain greater than 10% (moisture)?

Yes ___ No ✓

If no, also check "No" in item F below. You have now completed this form, sign and return.

D. Is the waste stream generated by any of the following types of industries?

1 Petroleum Refineries	SIC = 2911
2. Chemical Manufacturing Plants	SIC = 2800-2899
3. Coke-by-Product Recovery Plants	SIC = 3312
4. Treatment, Storage, and Disposal Facilities handling Benzene wastes from 1, 2, or 3	SIC = 4953

Yes ___ No ___

If no, skip to item F below.

*E. Is your company's Total Annual Benzene (TAB) greater than 10 megagrams (Mg) per year?

Yes ___ No ___

*F. This waste contains Benzene which is required to be controlled and treated in accordance with the provisions of 40 CFR 61 Subpart FF [61.342 (f) (2)].

Yes ___ No ✓

"I certify that the above information is true, accurate, and complete."

Signature _____

Print Name & Title Harry S. Kemp ERS PRP Representative

* NOTE: If E and F are both Yes then Rineco must use special handling procedures.

Date Printed 01/04/94 Chemical Waste Management, Inc. LLN AN1807

WASTE PROFILE

Profile # AN 1807

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: RT 5 BOX 287 Billing Address: RUST REMEDIAL SERVICES
(_) Same
100 GLENBOROUGH STE 500

GYNALIA MS 38611 HOUSTON TX 77067

3. Technical Contact/Phone: JEFF BENNETT 601/372-7962

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367

Billing Contact/Phone: DEBRA JOHNSON 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID, SOLID, ORGANIC, AND AQUEOUS WASTE STREAMS

6. Waste Name: OIL DRY AND USED OIL

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (_) No (X)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): _____

State Waste Codes: _____

8. Physical State @ 70F: A. Solid(X) Liquid(_) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 0 to _

9A. pH: Range _____ or Not applicable (X) B. Strong Odor (_);describe _____

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analy

Constituents	Range	Unit Description
OIL DRY	20 to 90	%
USED OIL	20 to 70	%
FLY ASH	0 to 30	%
	to	
	to	
	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	190.000000	

12. OTHER: PCBs if yes, concentration N _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_
Radioactive (_) Benzene if yes, concentration _ _____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_)
Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicabl

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other _____

15. ANTICIPATED ANNUAL VOLUME: 300 Units: LGNS Shipping Frequency: YEAR

SAMPLING INFORMATION Sample Tracking Number: 6620

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): TANK

Date Sampled: 11/20/93 Sampler's Name/Company: TODD HOLLENSHEAD RUST REMEDIAL SERVICES

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructio

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authoriz CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile AN1807 HARRY S. KEMP ERS PRP REPRESENTATIVE

Signature Name and Title D:

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each wa number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, an 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: ____ to ____

23. Indicate the range of each: Units

Cyanides: _ None _____ to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None _____ to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None _____ to _____ _____ Type _____

Optional Phenolics: _ None _____ to _____ _____

24. Identify the waste color BROWN _____, DOT physical state Solid _____,

and physical appearance CLUMPY, DIRT-LIKE _____

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION

TOTAL		
Beryllium as Be	_____	ppm
Potassium as K	_____	ppm
Sodium as Na	_____	ppm
Bromine as Br	_____	%
Chlorine as Cl	_____	%
Fluorine as F	_____	%
Sulfur as S	_____	%

26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)

RANGE

A. Heat Value (Btu/lb): ____-____

B. Water: _____

C. Viscosity (cps): ____@____F _ 100 F _ 150 F

D. Ash: ____ %

E. Settleable solids: _____ %

F. Vapor Pressure @ STP (mm/Hg): ____

G. Is this waste a pumpable liquid? Yes _ No _

H. Can this waste be heated to improve flow? Yes _ No _

I. Is this waste soluble in water? Yes _ No _

J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes _ No X

B. Proper Shipping Name. . . . . .: NON-REGULATED MATERIAL

and Additional Description if required: _____

C. DOT Regulations: _____ Hazard Class: 00 Non-Regulated Mat. I.D. ____ Packing Group: __

D. CERCLA Reportable Quantity (RQ) and units (lb, Kg): _____

E. Non-Bulk code __ Bulk code __

F. Special Provisions __ __ __ __ __ __

G. Labels Required _____ _____ _____

28. SPECIAL HANDLING INFORMATION

_____

_____

_____

_____

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

THIS IS A CERCLA WASTE.

REMOVED ACTION DOCUMENT IN PROFILE AN1808

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 01/04/94

LCW AW18

Profil

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data		TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
							California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual		Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004	<0.3	ppm		500 mg/l		
Barium as Ba	X	100.0 mg/l		D005	2.395	ppm				
Cadmium	X	1.0 mg/l		D006	<0.033	ppm		100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007	<0.042	ppm				
Lead as Pb	X	5.0 mg/l		D008	0.262	ppm		500 mg/l		
Mercury as Hg	X	.2 mg/l		D009				20 mg/l		
Selenium as Se	X	1.0 mg/l		D010	<0.11	ppm		100 mg/l		
Silver as Ag	X	5.0 mg/l		D011	<0.054	ppm				
Nickel as Ni								134 mg/l		
Thallium as Tl								130 mg/l		
Chromium Hex								500. mg/l		
Antimony										
Beryllium										
Copper										
Vanadium										
Zinc										

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200.0 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2 Dichloroethylene	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Profile Change History

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
This profile has no recorded changes.		

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP METALS

Client Name : Rust Remedial Services, Inc.
Site ID : Enterprise Recovery Systems

Sample ID : FST07-02
Sample Date : 10/21/93
Date Arrived : 10/21/93

File Name : 9310-584
Sample ID : 9310-584-4

Date of TCLP Extraction : 10/21/93, Leachate
Matrix Classification : Soil

Metals	Results (ppm)[1]	Regulatory Level (ppm)	Method (SW-846)	Date Analyzed	By
Lead	1.17	5.0	6010A	10/26/93	JF

Detection Limits (ppm)	
Lead	0.045

1 - Sample results not factored for Matrix Recovery Bias per Federal Register November 24, 1992.

Randall H. Thomas
Vice President

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP BENZENE

CLIENT NAME : _RUST REMEDIAL SERVICES, INC.
PROJECT # : _____
DATE ANALYZED : _10/25/93
ANALYST : _WH_____

SITE ID : _ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : _FST07-02_____
SAMPLE DATE : _10/21/93_____
DATE ARRIVED : _10/21/93_____
MATRIX : _TCLP LEACHATE

FILE NAME : _9310-584.DOC
SAMPLE # : _9310-584-4__

METHOD (SW-846): _8020
5030

DATE OF TCLP EXTRACTION : _10/21/93_
MATRIX CLASSIFICATION : _SOIL

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	DL[1] (ppm)	REGULATORY LEVEL(ppm)
Benzene	____ND_____	_0.05	__0.50___

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP TOTAL PETROLEUM HYDROCARBONS

CLIENT NAME : _RUST REMEDIAL SERVICES, INC. PROJECT # : _____ DATE ANALYZED : _10/25/93
ANALYST : _WH/TB__

SITE ID : _ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : _FST07-02_____
SAMPLE DATE : _10/21/93_____ FILE NAME : _9310-584.DOC
DATE ARRIVED : _10/21/93_____ SAMPLE # : _9310-584-4__ METHOD : _CDHS[3]
MATRIX : _TCLP LEACHATE

DATE OF TCLP EXTRACTION : _10/21/93_
MATRIX CLASSIFICATION : _SOIL

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	DL[1] (ppm)	REGULATORY LEVEL(ppm)
TPH - Volatile	5.34	1.00	NA
TPH - Extractable	35.2	1.00	NA
TPH - Total	40.5	1.00	10.0

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
3 - CALIFORNIA DEPARTMENT OF HEALTH SERVICES
ND - NOT DETECTED

LABORATORY MANAGER

GENERATOR'S CERTIFICATION

I hereby certify on behalf of ERS PRP Group (hereinafter "Generator"), by my signature and as a duly authorized representative of Generator, that the attached is an analysis of and information regarding waste originating from the Generator's facility located at Rt. 5 Box 287 Byhalia, MS.

I further certify that the attached analysis and information is provided in compliance with ADEM Administrative Code Rules 335-14-3-.08, and that Chemical Waste Management has been duly authorized by the Generator to submit the attached information, and this Certification where appropriate, in behalf of the Generator and in compliance with the aforementioned regulation.

I further certify under penalty of law that this document and all attachments were prepared under my authorization, direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

The Generator understands that any approval by the Department of Environmental Management for disposal of any waste described by the submitted information shall not relieve the Generator from liability for compliance with all other applicable statutes and regulations regarding the management of hazardous wastes.

[signature] Profile AN 1807
(Signature)

BY: Harry S. Kemp
(Typed/Printed Name)

TITLE: ERS PRP Representative

DATE: 11-23-93

January 12, 1994

Enterprise Recovery Systems
Site PRP. Group
Rt. 5 Box 287 Cayce Rd.
Byhalia, MS 38611
(601) 851-7367

Mr. Brett Willie
Department of Environmental Quality
Office of Solid and Hazardous Waste
P.O. Box 82178
Baton Rouge, LA 70884-2178

RE: Addition of cutup steel to profile AN1807.
Waste # 6524-239
Site I.D. # G-129-652

Dear Mr. Willie,

I am writing in response to our phone conservation on the morning of 1/12/94. At that time you requested information as to why cutup steel was to be added to the Chemical Waste Management profile AN1807. The reason for this addition is as follows.

Profile AN1807 consist of a non-hazardous mixture of oil dry, oil, and fly ash. This material was contained in a steel storage tank that was to be dismantled after the contents were removed. The original plan for this tank was to dispose of this steel along with other scrap steel onsite. The original plan was not followed because this tank was the last to be dismantled and all other scrap steel has already been shipped of site or containerized. Therefore, including this steel in profile AN1807 provided an immediate and cost effective means of disposal for this tank.

Thank you for your help in this matter. If you have any questions in this matter please feel free to contact me at 901-533-8959 or page me at 901-533-8959.

Sincerely

Harry Kemp
Enterprise Recovery Systems
PRP. Group Representative

AN 1807

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

Kai David Midboe
Secretary

January 13, 1993

Mr. Harry S. Kemp
Enterprise Recovery Systems
Route 5 Box 287
Byhalia, Mississippi 38611

RE: Solid Waste Notification Form
Enterprise Recovery Systems
G-129-6524
Byhalia, Mississippi

Dear Mr. Kemp:

We are in receipt of your Solid Waste Notification Form dated December 21, 1993. On the basis of the information provided, you have been determined to be a generator as defined by the Louisiana Administrative Code, Title 33, Part VII. Your Generator Identification Number is G-129-6524. Please reference this number on all correspondence to this office pertaining to this site.

Enclosed you will find the completed Solid Waste Notification Form. Based upon your certification that the waste stream is non-hazardous, it has been assigned the following waste stream specific number:

Waste Number	Waste Name
6524-239	Oil Dry and Used Oil

If you have any questions concerning this matter, please contact Mr. Brett F. Willie of the Solid Waste Division at (504) 765-0249.

Sincerely,

ROGER W. GINGLES
Program Manager
Permit Section

RWG:BFW:wl

Enclosure

OFFICE OF SOLID AND HAZARDOUS WASTE SOLID WASTE DIVISION P.O. BOX 82178 BATON ROUGE, LOUISIANA 70884-2178
TELEPHONE (504) 765-0249 FAX (504) 765-0299

AN EQUAL OPPORTUNITY EMPLOYER

Louisiana keep it Beautiful

AN 1807

FOR DEPARTMENT USE ONLY:
Site I.D. #_____
Date Received_____
Reviewed By_____

Department of Environmental Quality
Office of Solid and Hazardous Waste
Solid Waste Division
Post Office box 82178
Baton Rouge LA 70884-2178

SOLID WASTE INDUSTRIAL GENERATOR SUPPLEMENTAL FORM

1. Name of Generator of Industrial Solid Waste
Enterprise Recovery Systems site PRP Group

2. Description of Industrial Solid Waste - Generators of Industrial solid waste only.

A. Waste Number 6524-239	B. Waste Name Oil Dry & Used Oil
C. Amount 30 ~~180~~ ton	D. ___On-site ✓Off-site
E. Name and Location of Disposal Facility and Parish Location Chemical Waste Mgt. Carlyss, LA Calcasieu	

3. Process Description Remediation of CERCLA site by removing contents from bulk storage.

4. Chemical, Physical and Biological Description Petroleum hydocarbons and clay

AN 1807

8. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

CERTIFICATION: This is also to certify that this waste is not a listed hazardous waste, that this waste is not hazardous due to its characteristics and/or process knowledge and it is not a waste within the jurisdiction of the Department of Natural Resources, Office of Conservation.

Signed: [signature]

Title: ERS PRP Group Rep.

Date: 12-21-93

AN 1807

1-10-94 Rec'd from Valerie Legg

Department of Environmental Quality
Office of Solid and Hazardous Waste
Solid Waste Division
Post Office box 82178
Baton Rouge LA 70884-2178

FOR DEPARTMENT USE ONLY:
Site I.D. # G-129-652
Date Received
Reviewed By

SOLID WASTE NOTIFICATION FORM

THIS NOTIFICATION IS: ✓ THE FIRST FOR THIS SITE

____ A SUBSEQUENT NOTIFICATION

LOUISIANA IDENTIFICATION NUMBER ____

1. Name of Operator (and Company Name if Applicable) Enterprise Recovery Systems PRP Group
2. Mailing Address: Route 5 Box 287 Byhalia, MS 38611
3. Facility Name: Enterprise Recovery Systems
4. Actual Location/Description (street address if possible): 8/10 mile south of intersection Cayce Rd. and Hwy 72
5. Location: Section ____ Township ____ Range ____
   ~~Parish~~ County Marshall
   Coordinates: Lat.-Degrees ____ Minutes ____ Seconds ____
   Long.-Degrees ____ Minutes ____ Seconds ____
6. Contact: Harry S. Kemp
7. Telephone: 601-851-7367, Pager 901-533-8959
8. Owner: Robert Thompson
9. Owner's Address: 5143 N. Charlotte Circle Memphis, TN 38117

Brett Willie
504-765-0249

10. Type and Purpose of Operation: (check each applicable line)

* Generator of Industrial Solid Waste ✓
[redacted]

* Transporter _____
[redacted]

* Type I

Industrial Landfill _____
Industrial Surface Impoundment _____
Industrial Landfarm _____

* Type I-A

Industrial Incinerator Waste Handling Facility _____
Industrial Shredder/Compactor/Baler _____
Industrial Transfer Station _____

* Type II

Sanitary Landfill _____
Residential/Commercial Surface Impoundment _____
Residential Commercial Landfarm _____

* Type II-A

Residential/Commercial Incinerator Waste Handling Facility _____
Residential/Commercial Shredder/Compactor/Baler _____
Residential/Commercial Transfer Station _____
Residential/Commercial Refuse-Derived Fuel _____

* Type III

Construction/Demolition-Debris Landfill _____
Woodwaste Landfill _____
Compost Facility _____
Resource Recovery/Recycling Facility _____

* Other

Describe: _____

_____

11. Total Acres 10 Processing Acres 3 Disposal Acres None

12. Certification: I have personally examined and am familiar with the information submitted in the attached document, and I hereby certify under penalty of law that this information is true, accurate, and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

Signature _____

Date 12-21-93

Type Name and Title Harry S. Kemp ERS PRP Group Rep.

AN 1807

Department of Environmental Quality
Office of Solid and Hazardous Waste
Solid Waste Division
Post Office box 82178
Baton Rouge LA 70884-2178

FOR DEPARTMENT USE ONLY:
Site I.D. # G-129-652
Date Received
Reviewed By

SOLID WASTE INDUSTRIAL GENERATOR SUPPLEMENTAL FORM

1. Name of Generator of Industrial Solid Waste
Enterprise Recovery Systems site PRP Group

2. Description of Industrial Solid Waste - Generators of Industrial solid waste only.
1-10-94 from Valerie Lege

A. Waste Number 6524-239 NV	B. Waste Name Oil Dry & Used Oil
C. Amount 30 ~~180~~ ton	D. ___ On-site ✓ Off-site
E. Name and Location of Disposal Facility and Parish Location Chemical Waste Mgt. Carlyss, LA Calcasieu	

3. Process Description Remediation of CERCLA site by removing contents from bulk storage.

4. Chemical, Physical and Biological Description Petroleum hydocarbons and clay

5. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

CERTIFICATION: This is also to certify that this waste is not a listed hazardous waste, that this waste is not hazardous due to its characteristics and/or process knowledge and it is not a waste within the jurisdiction of the Department of Natural Resources, Office of Conservation.

Signed: _____

Title: ERS PRP Group Rep.

Date: 12-21-93

Page . . : 1
Date 12/23/93 WAR Program . : [illegible]
Time 10:09:14 User . . : [illegible]

Report: 7004 Version: 4A.00

This Report is intended for the use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.

Tracking Number : 4520341
Site Name . . . : CWM SOUTHERN REGION LAB
Waste Description : OIL DRY AND USED OIL
Priority Code . : 20

Profile . . . . : AN1007
Generator Name . : ENTERPRISE RECOVERY SYSTEMS
Date Received . : 11/23/93
Approved . . . . : N

FINGERPRINT

Test Description	Ext. Procedure	L #	Test Result	Unit Desc.	Date Analyzed	Lab Tech
INCIDENTAL ODOR		01	NONE		11/23/93	SLP
LAYERS		01	1		11/23/93	SLP
PERCENT FREE LIQUIDS		01	0	%	11/23/93	SLP
COLOR		01	BROWN		11/23/93	SLP
PHYSICAL STATE		01	SOLID		11/23/93	SLP
H2O SOLUBILITY		01	INSOLUBLE: SINKS		11/23/93	SLP
CYANIDE SCREEN		01	NEGATIVE		11/23/93	SLP
OXIDIZER SCREEN		01	NEGATIVE		11/23/93	SLP
FLAM. POTENTIAL		01	NEGATIVE		11/23/93	SLP
SULFIDE SCREEN		01	NEGATIVE		11/23/93	SLP
RADIATION SCREEN		01	EQUALS BACKGROUND		11/23/93	SLP
tackiness screen		01	NON		11/23/93	SLP
pH BY PAPER		01	7	STND UNIT	11/23/93	SLP
FRIABLE?		01	YES		11/23/93	SLP
PARTICLE SIZE OVER 1/8 INCH?		01	NO		11/23/93	SLP
SAMPLE CONTAINER MATERIAL		01	QUART GLASS JAR		11/23/93	SLP
HOK BURNER		01	3358.06		11/23/93	SLP
H2O REACTIVITY		01	NO REACTION		11/23/93	SLP

PCBS

Test Description	Ext. Procedure	L #	Test Result	Unit Desc.	Date Analyzed	Lab Tech
AROCLOR 1016	PCBS	01 <	37.0	PPM	11/29/93	KLS
AROCLOR 1221	PCBS	01 <	37.0	PPM	11/29/93	KLS
AROCLOR 1232	PCBS	01 <	37.0	PPM	11/29/93	KLS
AROCLOR 1242	PCBS	01 <	37.0	PPM	11/29/93	KLS
AROCLOR 1248	PCBS	01 <	37.0	PPM	11/29/93	KLS
AROCLOR 1254	PCBS	01 <	37.0	PPM	11/29/93	KLS
AROCLOR 1260	PCBS	01 <	37.0	PPM	11/29/93	KLS

SOLVENT SCREEN

Test Description	Ext. Procedure	L #	Test Result	Unit Desc.	Date Analyzed	Lab Tech
NUMBER OF COMPOUNDS OVER LOQ	SLV SCRN	01	0		11/29/93	KRI
LOQ FOR THIS ANALYSIS	SLV SCRN	01 <	1	%	11/29/93	KRI

Date 11/23/93
Time 10:09:10

WAR

Page . . : 2
Program . : 27004PT
User . . : [illegible]

Report: 7004

Version: 4A.00

Tracking Number : 4490241
Site Name . . . : CWM SOUTHERN REGION LAB
Waste Description : OIL DRY AND USED OIL
Priority Code . : 26

Profile . . . . : AN1887
Generator Name . : ENTERPRISE RECOVERY SYSTEMS
Date Received . : 11/23/93
Approved . . . . : N

SPECTROSCOPY

Test Description	Ext. Procedure	L #		Test Result	Unit Desc.	Date Analyzed	Lab Tech
SILVER - TOTAL		01	<	4	PPM	11/28/93	RJK
ARSENIC - TOTAL		01	<	35	PPM	11/28/93	RJK
BARIUM - TOTAL		01		2190	PPM	11/28/93	RJK
BERYLLIUM - TOTAL		01	<	12	PPM	11/28/93	RJK
CADMIUM - TOTAL		01		25.7	PPM	11/28/93	RJK
CHROMIUM - TOTAL		01		335	PPM	11/28/93	RJK
POTASSIUM - TOTAL		01		2990	PPM	11/28/93	RJK
SODIUM - TOTAL		01		1940	PPM	11/28/93	RJK
NICKEL - TOTAL		01		49.2	PPM	11/28/93	RJK
LEAD - TOTAL		01		1090	PPM	11/28/93	RJK
ANTIMONY - TOTAL		01		28.0	PPM	11/28/93	RJK
THALLIUM - TOTAL		01		51.9	PPM	11/28/93	RJK
VANADIUM - TOTAL		01		63.1	PPM	11/28/93	RJK
EXTRACT P.H.		01		5.52	STND UNIT	11/30/93	RJK

EXT CHEMISTRY

Test Description	Ext. Procedure	L #		Test Result	Unit Desc.	Date Analyzed	Lab Tech
HEATING VALUE		01		4840	BTU/LB	11/24/93	JBN
SULFUR, AS S (TOTAL)	CWM 92-40	01		0.45	%	11/24/93	JBN
BROMINE		01		0.15	%	11/24/93	JBN
FLUORINE		01	<	0.1	%	11/24/93	JBN
CHLORINE		01		0.66	%	11/24/93	JBN

TCLP - RESULTS

Test Description	Ext. Procedure	L #		Test Result	Unit Desc.	Date Analyzed	Lab Tech
SILVER - TCLP		01	<	0.054	PPM	11/30/93	RJK
ARSENIC - TCLP		01	<	0.3	PPM	11/30/93	RJK
BARIUM - TCLP		01		2.308	PPM	11/30/93	RJK
CADMIUM - TCLP		01	<	0.033	PPM	11/30/93	RJK
CHROMIUM - TCLP		01	<	0.042	PPM	11/30/93	RJK
LEAD - TCLP		01		0.262	PPM	11/30/93	RJK
SELENIUM - TCLP		01	<	0.11	PPM	11/30/93	RJK

Lab ID No: 4690169
Profile No: AN1997
Requestor: NA
Generator: ENTERPRISE
Date: 12-22-93
Analyst: S.REEVES
Units: PPM
Dilution: 1/50

Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

VOLATILES

ANALYTE	MDL	RESULT
Dichlorodifluoromethane	0.36	<MDL
Chloromethane	0.28	<MDL
Vinyl Chloride	0.27	<MDL
Bromomethane	0.32	<MDL
Chloroethene	0.19	<MDL
Trichlorofluoromethane	0.27	<MDL
Ethanol	0.21	<MDL
Ethyl Ether	0.20	<MDL
1,1-Dichloroethene	0.21	<MDL
1,1,2-Trichlorotrifluoroethane	0.14	<MDL
Iodomethane	0.21	<MDL
Acetone	0.27	<MDL
Carbon Disulfide	0.18	<MDL
Allyl Chloride	0.39	<MDL
Methylene Chloride	0.46	<MDL
trans-1,2-Dichloroethene	0.25	<MDL
Acrylonitrile	0.23	<MDL
1,1-Dichloroethane	0.18	<MDL
Chloroprene	0.10	<MDL
2-Butanone (MEK)	0.96	0.89
2,2-Dichloropropane	0.11	<MDL
cis-1,2-Dichloroethene	0.13	<MDL
Propionitrile	0.48	<MDL
Methacrylonitrile	0.11	<MDL
Chloroform	0.07	<MDL
Ethyl Acetate	0.26	<MDL
Bromochloromethane	0.08	<MDL
Acetonitrile	0.12	<MDL
1,1,1-Trichloroethane	0.15	<MDL
Isobutyl Alcohol	0.26	<MDL
Carbon Tetrachloride	0.16	<MDL
1,1-Dichloropropene	0.11	<MDL
Benzene	0.21	<MDL
1,2-Dichloroethane	0.12	<MDL

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Lab ID No: 4620188
Profile No: AN1807
Requestor: NA
Generator: ENTERPRISE
Date: 12-22-93
Analyst: S.REEVES
Units: PPM
Dilution: 1/50

Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

VOLATILES

ANALYTE	MDL	RESULT
Trichloroethene	0.15	0.45
1,2-Dichloropropane	0.10	<MDL
Dibromomethane	0.35	<MDL
Methyl Methacrylate	0.14	<MDL
1,4-Dioxane	11.80	<MDL
Bromodichloromethane	0.23	<MDL
2-Chloroethyl Vinyl Ether	0.36	<MDL
cis-1,3-Dichloropropene	0.46	<MDL
4-Methyl-2-Pentanone	0.51	<MDL
Toluene	0.72	0.89
trans-1,3-Dichloropropene	0.30	<MDL
1,1,2-Trichloroethane	0.33	<MDL
Ethyl Methacrylate	0.10	<MDL
2-Hexanone (MBK)	0.80	<MDL
Tetrachloroethene	0.11	3.07
1,2-Dibromoethane	0.10	<MDL
1,3-Dichloropropane	0.11	<MDL
Dibromochloromethane	0.08	<MDL
Chlorobenzene	0.05	<MDL
1,1,1,2-Tetrachloroethane	0.08	<MDL
Ethylbenzene	0.88	0.56
Xylene	0.30	3.61
Styrene	0.11	<MDL
Bromoform	0.11	<MDL
Isopropylbenzene	0.14	<MDL
Cyclohexanone	0.23	<MDL
1,1,2,2-Tetrachloroethane	0.13	<MDL
Bromobenzene	0.18	<MDL
1,2,3-Trichloropropane	0.20	<MDL
n-Propylbenzene	0.11	<MDL
2-Chlorotoluene	0.10	<MDL
1,3,5-Trimethylbenzene	0.12	<MDL
4-Chlorotoluene	0.22	<MDL
tert-Butylbenzene	0.08	<MDL

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Lab ID No: 4620160
Profile No: AN1807
Requestor: NA
Generator: ENTERPRISE
Date: 12-22-93
Analyst: G.REEVES
Units: PPM
Dilution: 1/50

Chemical Waste Management, Inc.
Port Arthur Facility
SWAR Addendum / Analytical Report

VOLATILES

ANALYTE	MDL	RESULT
1,2,4-Trimethylbenzene	0.12	<MDL
sec-Butylbenzene	0.06	0.09
p-Isopropyltoluene	0.06	<MDL
1,3-Dichlorobenzene	0.03	<MDL
1,4-Dichlorobenzene	0.03	<MDL
n-Butylbenzene	0.09	0.17
1,2-Dichlorobenzene	0.05	<MDL
1,2-Dibromo-3-Chloropropane	0.27	<MDL
1,2,4-Trichlorobenzene	0.21	<MDL
Hexachlorobutadiene	0.41	<MDL
Naphthalene	0.19	0.70
1,2,3-Trichlorobenzene	0.23	<MDL

Lab Manager

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REGULATORY ALERT 2-93

LOUISIANA

SOLID WASTE REGULATION CHANGE

March 24, 1993

Effective April 1, 1993 all non-hazardous industrial solid waste must be coded with:

1) a generator site identification code

2) a waste identification code

All shipments must have these codes identifying non-hazardous solid waste on the shipping document before they are shipped. Attached are forms securing these codes.

These codes can be obtained from the Louisiana Department of Environmental Quality (LaDEQ) (504) 765-0249.

LaDEQ Contacts: Brett Willie
Yolunda Righteous
Lee Lavespere

If you have any questions or require additional information, please contact George Jones or Dave Wineman at the Lake Charles Facility (318) 583-2169.

12-21-93 Randy Leech & Harry S. Kemp called Mr. Willie to ask clarification on some instructions and as to whether oil/oil dry and the scrap steel & debris. If RCRA empty containers then will not need a #.

DETAILED INSTRUCTIONS

These instructions explain each item on the Notification Form and the information or response to be entered. Please type or print in black ink all entries except Number 12, "Signature," which must be signed in ink. If necessary, use additional sheets or documents to fully answer any questions. Indicate clearly on each attachment the part of the form to which the additional sheets or documents apply.

1. **Name of Operator/Site:** Enter the name of the operator and the name of the site. The operator is the person having legal authority and responsibility for a site which collects, transports, processes or disposes of solid waste or generates industrial solid waste.

2. **Mailing Address:** Enter the mailing address for the site's Louisiana operations. This office will mail all site related correspondence to this address.

3. **Facility Name.**

4. **Actual Location:** Enter the street address (not Post Office Box); highway number; or other specific identifiers, and the city and state in which the information on this form applies. If the mailing address (Item Number 2) and the site location are the same, insert "Same as Number 2" after "Actual Location" in Item Number 4.

5. **Location:** Geographic (section, township, range, and parish where the facility is located, and the coordinates [as defined by the longitude and latitude to the second] of the centerpoint of the facility).

6. **Contact:** Enter the name, title and business telephone number of the person to contact regarding information supplied on this form.

7. **Telephone:** Number of the contact person.

8. **Owner:** Enter the name of the legal owner(s) of the property in which the site is located, using an additional sheet to list multiple owners.

9. **Owner's Address:** Enter the mailing address of the owner(s) of the site.

10. **Type of Operation(s):** The notification form categorizes operations as:

    Generator-any person whose act or process produces solid waste as defined in the regulations.

    Transporter-any person who moves industrial solid waste off-site and/or who moves solid waste of a commercial establishment or more than one household to a storage, processing, or disposal facility.

Type I Facility-a facility used for disposing of industrial solid wastes. (If the facility is also used for disposing of residential or commercial solid waste, it is also a Type II facility).

Type I-A Facility-a facility used for processing industrial solid waste (e.g. transfer station, incinerator waste-handling facility, shredder, baler, or compactor). (If the facility is also used for processing residential or commercial solid waste, it is also a Type II-A facility.)

Type II Facility-a facility used for disposing of residential or commercial solid waste. (If the facility also is used for disposing of industrial solid waste, it is also a Type I facility).

Type II-A Facility-a facility used for processing residential or commercial solid waste (e.g. transfer station, incinerator waste-handling facility, refuse-derived fuel facility, shredder, baler, or compactor). (If the facility is also used for processing industrial solid waste, it is also a Type I-A facility.)

Type III Facility-a facility used for: disposing of construction/demolition debris or woodwaste, composting organic waste to produce a usable material, or separating recyclable wastes (a separation facility). Residential, commercial, or industrial solid waste must not be disposed of in a Type III facility.

11. **Total Site Acreage** and the amount of acreage that will be used for processing and/or disposal.

12. **Certification:** Provide the signature, type name, and title of the individual authorized to sign the application. Proof of the legal authority of the signatory to sign for the applicant must be provided.

WASTE PROFILE

Profile # AN 1808

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176
2. Generator Address: RT 5 BOX 287 Billing Address: (_) Same RUST REMEDIAL SERVICES
   100 GLENBOROUGH STE 500
   BYHALIA MS 38611 HOUSTON TX 77067
3. Technical Contact/Phone: JEFF BENNETT 901/372-7962
4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: DEBRA JOHNSON 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: CERCLA SITE REMEDIATION/DISMANTLING STEEL TANKS, CONCRETE BERMS, & CRUSHING RCRA EMPTY DRUMS
6. Waste Name: DEMOLITION DEBRIS
7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (_) No (X)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): _____ State Waste Codes: _____
8. Physical State @ 70F: A. Solid(X) Liquid(_) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 0 to _
9A. pH: Range _____ or Not applicable (X) B. Strong Odor (_);describe _____
10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_
11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analy

Constituents	Range	Unit	Description
DEMOLITION DEBRIS CONSISTING OF:	to		
STEEL (VARIOUS SIZES)	20 to 70	%	
CRUSHED DRUMS (RCRA EMPTY)	20 to 70	%	
SOIL AND DEBRIS	5 to 10	%	
PLASTIC	0 to 5	%	
PPE	5 to 10	%	See attachment 2
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	185.000000		

12. OTHER: PCBs if yes, concentration N _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____
13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (_) Type/Size: ROLLOFF Other _____
15. ANTICIPATED ANNUAL VOLUME: 8000 Units: TONS Shipping Frequency: YEAR

SAMPLING INFORMATION

Sample Tracking Number: 46201

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): TANKS, CONCRETE BERM, DRUMS

Date Sampled: 11/19/93 Sampler's Name/Company: TODD HOLLENSHEAD RUST REMEDIAL SERVICES

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instruction

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions o this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. A relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile AN1808 _____ HARRY B. KEMP ERS PRP REPRESENTATIVE _____ Da

Signature Name and Title

Date Printed 01/04/96

LCN AN1808

Profile

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color MULTICOLORED, DOT physical state Solid,

and physical appearance STEEL, CONCRETE, DEBRIS

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION

	TOTAL	
Beryllium as Be		ppm
Potassium as K		ppm
Sodium as Na		ppm
Bromine as Br		%
Chlorine as Cl		%
Fluorine as F		%
Sulfur as S		%

26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)

RANGE

A. Heat Value (Btu/lb): ____-____

B. Water: ____

C. Viscosity (cps): ____@____F _ 100 F _ 150 F

D. Ash: ____ %

E. Settleable solids: ____ %

F. Vapor Pressure @ STP (mm/Hg): ____

G. Is this waste a pumpable liquid? Yes _ No _

H. Can this waste be heated to improve flow? Yes _ No _

I. Is this waste soluble in water? Yes _ No _

J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes _ No X

B. Proper Shipping Name. . . . . .: NON-REGULATED MATERIAL

and Additional Description if required: _____

C. DOT Regulations: _____ Hazard Class: 00 Non-Regulated Mat. I.D. ____ Packing Group: ___

D. CERCLA Reportable Quantity (RQ) and units (lb, Kg): _____

E. Non-Bulk code ___ Bulk code ___

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required _____ _____ _____

28. SPECIAL HANDLING INFORMATION

_____

_____

_____

_____

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

THIS IS A CERCLA WASTE.

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200.0 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethylene	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 01/04/94

LCW AN1R08

Profile

ATTACHMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile

Constituents	Range	Unit Description
CUT UP PLASTIC DRUMS OF VARIOUS SIZE	.5 to 20	%

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
RECEIVED VERBAL FROM TODD WOLLENSGEAD DATED	12/16/93	WM0326JLC
12/10/93 REQUESTING THE CHEM COMP INCLUDE CUT UP	12/16/93	WM0326JLC
PLASTIC DRUMS 0.5% TO 20%. REQUEST APPROVED 12/10/	12/16/93	WM0326JLC
93. AAH	12/16/93	WM0326JLC

Replaced 2 12/21/93

Date 12/01/93
Time 8:55:17

WASTE MANAGEMENT DECISION

Page . . : 1

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4620180 Priority : 20
Profile # : AN1808 Date Received: 11/22/93
Effective Date: 11/23/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : DEMOLITION DEBRIS

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

(11/29) Paula [illegible]
(11/29) [illegible]

a) Approved Management Methods
Landfill (D-81)

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS SOLID FOR LANDFILL IN BULK.

(3) Site and Contracting Conditions
This is a Cercla Waste.
ADEM number required.

* is responsible for obtaining from the original generator ( ), a properly executed waste profile sheet and other necessary documents. If broker is signing profile sheet on behalf of generator, the enclosed Authorization Letter must be completed by generator prior to scheduling.
* All shipments will be received on a C.O.D. basis until further notice. Contact your Customer Service Representative if you have any questions.
* A credit application has been enclosed to establish an account with Chemical Waste Management, Inc Until an account has been established, all services will be on a C.O.D. basis.
* Transportation is from Jacksonville, Fl. to Emelle, Al. Generator must notify the transportation department at Emelle, Al. at the time the shipment leaves the DEC-PR facility with all information pertinent to ocean transportation and date of arrival of the material in Jacksonville, Fl.
* Once approved by the CWM laboratory, this waste stream was submitted to the Alabama Department of Environmental Quality for issuance of an ADEM number. This process typically takes 10 - 15 days and is require prior to scheduling this profile for disposal.
* No free liquids.
* An E.P.A. ID number must be obtained prior to scheduling.
* A TNRCC Generator Registration number and/or Waste Code number must be obtained prior to scheduling.

FILE
53490

Date Printed 12/16/93

EMR AN1808

Profile #

ATTACHMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile

Constituents	Range	Unit Description
PPE	5 to 10	%
CUT UP PLASTIC DRUMS OF VARIOUS SIZE	.5 to 20	%

Location of Original CWM SOUTHERN REGION LAB

Tracking #: 4620180 Priority : 20
Profile # : AN1808 Date Received: 11/22/93
Effective Date: 11/23/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : DEMOLITION DEBRIS

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

III. Continuation....

* Absorbent materials for landfill must be made of non-biodegradeable material if shipped in bulk.
* A Benzene Neshap questionnaire must be completed prior to scheduling.
* Bulk waste must be manifested in cubic yards. If you are a Texas generator who must report to the TNRCC in pounds, kilograms, or tons, you may manifest in these units; however you must state in Section J of the manifest the actual yards shipped for billing purposes.
* Drums containing solids for direct landfill must be at least 90% full.
* A Land Disposal Notification/Certification Form must be completed and accompany the manifest with each shipment.

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 11/23/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) TERESA FISHER Date 11/23/93

SORBENT CERTIFICATION

This letter certifies that waste streams shipped from this facility destined for landfill disposal (or stabilization and landfill disposal) do not contain liquids that are absorbed using "biodegradable" sorbents.

The sorbents used, if any, are listed as "allowable sorbent materials" in 40 CFR 264.314(e)(1) and 265.314(f)(1). (Alternatively, absorbents used that do not appear in the referenced list may be tested to determine its suitability prior to its use as referenced in the rule @ 40 CFR 264.314 and 265.314. These results must be submitted as part of the profile.)

Generator Name ERS site PRP Group

Location Enterprise Recovery Systems
Byhalia, MS

I hereby certify that this information is true and should be submitted as an attachment to the applicable waste profile sheet(s).

Authorized Signature [signature] 1-7-94 ERS PRP Representative

Return this form to:

CHEMICAL WASTE MANAGEMENT, INC.
LAKE CHARLES FACILITY
7170 John Brannon Road
Carlyss, LA 70663

Phone: (318) 583-2169
Fax: (318) 583-2858 or 4614

Re: Sorbent pads in AN 1808

January 7, 1993

Todd Hollenshead
Rust Remedial Services

Subject: Change to profile AN1808

The chemical composition has been changed to reflect Soil & Debris 5 to 100%. Enclosed you will find a screen print of the chemical revised chemical composition.

If you have any additional questions or comments, please feel free to contact me at 713-875-4683.

Sincerely,

Jeff Slocumb
CHEMICAL WASTE MANAGEMENT
Service Representative

CWO3DTK DISPLAY CWM SOUTHERN REGION ASPRCWMENV 1/07/94 9:56:29

Display Chemical Composition

EME AN1808 ENTERPRISE RECOVERY SYSTEMS DEMOLITION DEBRIS

Total Chem Comp 180.000000 %

Chemical Composition	MIN		MAX	Units
DEMOLITION DEBRIS CONSISTING OF:		-		
STEEL (VARIOUS SIZES)	20	-	70	%
CRUSHED DRUMS (RCRA EMPTY)	20	-	70	%
SOIL AND DEBRIS	5	-	100	%
PLASTIC	0	-	5	%
PPE	5	-	10	%
CUT UP PLASTIC DRUMS OF VARIOUS SIZE	.5	-	20	%

F3=Exit Ver#4A.01

09-03 SA MW KS IM II S1 SITE0509 KB

Date 10/26/93
Time 9:59:15

WASTE MANAGEMENT DECISION

Page . . : 1

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4618896 Priority : 30
Profile # : BK3563 Date Received: 10/19/93
Effective Date: 10/25/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUIDS CONTAINI

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (p _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS BULK LIQUID FOR STORE AND TRANSSHIP FOR FUELS BLENDING AT A CERCLA APPROVED OUTLET.

(3) Site and Contracting Conditions
THIS IS A CERCLA WASTE.

c) Analytical Requirements for Each Load
Fingerprint
Compatibility Check
BTU/IC

d) Decision Expiration Date 10/25/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) CYNTHIA GUILLORY Date 10/25/93

Liquid
Fuel Material, 2-5% chlorine

Date Printed 10/26/93 Chemical Waste Management, Inc. EME BK3543

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST - REMEDIAL SERVICES SOUTH 100 GLENBOROUGH SUITE 500

BYHALIA MS 38611 HOUSTON TX 77067-0000

3. Technical Contact/Phone: GEORGE POWDER 601/851-7362

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID, ORGANICAQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC LIQUIDS CONTAINING 2-5% CHLORINE

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D001 D035 D039 /D040

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 75 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (_) 73-99F (X) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit	Description
TOLUENE	20 to 70	%	
XYLENE	20 to 70	%	
ACETONE	20 to 70	%	
METHANOL	20 to 70	%	
ETHANOL	20 to 70	%	
ISOPROPYL ALCOHOL	20 to 70	%	See attachment 2
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	711.000000		

12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _____ ppm. NESHAP (_) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (X) Drum (X) Type/Size: 55 GALLON DRUM Other TANKER

15. ANTICIPATED ANNUAL VOLUME: 37000 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4618896

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): TANKS

Date Sampled: 10/15/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature GEORGE W. POWDER, III CHAIRMAN, RCRA SUB. COMMITTEE Date

Name and Title

Date Printed 10/26/93 EME BK3543

Profile #

. This is a Nonwastewater.

. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

__ HOCs, __ PCBs, __ Acid, __ Metals, __ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D001	IGNITIBLE LIQ, TOC >= 10%				INCIN FSUBS	A
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: .800 to 1.100

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color BROWN, DOT physical state Liquid, and physical appearance LOW VISCOSITY, OPAQUE

F Date Printed 10/26/93 EME BK3563

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION		26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
TOTAL		RANGE
Beryllium as Be	ppm	A. Heat Value (Btu/lb): ____-____
Potassium as K	ppm	B. Water: ____
Sodium as Na	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	%	D. Ash: ____ %
Chlorine as Cl	%	E. Settleable solids: ____ %
Fluorine as F	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	%	G. Is this waste a pumpable liquid? Yes _ No _
		H. Can this waste be heated to improve flow? Yes _ No _
		I. Is this waste soluble in water? Yes _ No _
		J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, WASTE FLAMMABLE LIQUID, N.O.S.

D001

and Additional Description if required: (CONTAINS)

C. DOT Regulations: United Nations Hazard Class: 3 Flammable liquid I.D. UN1993 Packing Group: __

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 203 Bulk code 242

F. Special Provisions __ __ __ __ __ __

G. Labels Required FLAMMABLE LIQUID

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 10/26/93

EME BX3543

Profile #

OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
		TC				California List			
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

2. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 10/26/93

EMT BK3563

Profile #

MMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile

Constituents	Range		Unit	Description
BUTANOL	20 to	70	%	
HEPTANE	20 to	70	%	
MEK	20 to	70	%	
MIBK	20 to	70	%	
TRICHLOROETHYLENE	to	1	%	
1,1,1 TRICHLOROETHANE	0 to	5	%	
PERCHLOROETHYLENE	0 to	5	%	

F Date Printed 10/26/93 EME BK3543

Profile #

.ELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: FSUBS
Sales Office. . . :
CWM Location Orig.: SRL
Profile Expires . : 10/25/95
Approved. . . . . : 10/25/93
Signed Profile Present: N Change Pending: _ Waste Status: A
Site (DCS) Status: P PENDING ADEM INFO
Prof. Tracking No: 4618896

Fuels Approval.:
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .:
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___

Handling Codes: C LEVEL C PROTECTION 01 ACID/ORGANIC
02 POLY TYVEK 12 CONTAINS ORGANICS (PNA)
05 EXTREMELY FLAMMABLE 11 BULK AND DRUM

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # :
DOT Properties: Inhalation: 3 Dermal: 2 Oral: 3 Flammable: 4 Health: 3

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: ___ Download Generator: 1083729
Material Class.: D DCS Generator #...: 9999999999
Treatment Codes: T38 ___ ___ ___ ___ ___
Process Codes .: 17 25 ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTD
Schedule Interval :
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration ___ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT/BTU IC/PAT CK TC/LDR/RQ4	PSC	FUEL BLENDING BTU CI2
PSC	BULK FOR INCINERATION	PSC	(GEN) APPROVED FOR

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	01

Date Printed 10/26/93

Profile Change History

EME BK3543

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
This profile has no recorded changes.		

Date 10/26/93
Time 9:59:15

WASTE MANAGEMENT DECISION

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4618897 Priority : 30
Profile # : BK3544 Date Received: 10/19/93
Effective Date: 10/25/95
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUIDS CONTAINI

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
STORE/TRANSSHIP TO A CERCLA APPROVED FUELS BLENDING FACILITY

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint
Compatibility Check
BTU/IC

d) Decision Expiration Date 10/25/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) EDWARD HOLSON Date 10/25/93

Liquid Fuel Material, 0-2% chlorine

Date Printed 10/26/93 Chemical Waste Management, Inc. EMR BK3544

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: RUST - REMEDIAL SERVICES SOUTH
(_) Same
100 GLENBOROUGH
SUITE 500
BYHALIA MS 38611
HOUSTON TX 77067-0000

3. Technical Contact/Phone: GEORGE POWDER 601/851-7367

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID, ORGANICAQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC LIQUIDS CONTAINING 0-2% CHLORINE

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D001 D035 D039 / D040 ?

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 75 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (_) 73-99F (X) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit	Description
TOLUENE	20 to 70	%	
XYLENE	20 to 70	%	
ACETONE	20 to 70	%	
METHANOL	20 to 70	%	
ETHANOL	20 to 70	%	
ISOPROPANOL ALCOHOL	20 to 70	%	See attachment 2
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	711.000000		

12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _____ ppm. NESHAP (_) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (X) Drum (X) Type/Size: 55 GALLON DRUM Other TANKER

15. ANTICIPATED ANNUAL VOLUME: 23000 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 6618897

16a. Sample Source (drum, lagoon, pond, tank, vat, etc.): TANKS

Date Sampled: 10/15/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature GEORGE W. POWDER, III CHAIRMAN, RCRA SUB COMMITTEE Date

Name and Title

This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D001	IGNITIBLE LIQ, TOC >= 10%				INCIN FSUBS	A
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: .800 to 1.100

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color BROWN, DOT physical state Liquid;

and physical appearance LOW VISCOSITY, OPAQUE

Date Printed 10/26/93

EPE BX3544

Profile B

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION		26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
TOTAL		RANGE
Beryllium as Be	ppm	A. Heat Value (Btu/lb):
Potassium as K	ppm	B. Water:
Sodium as Na	ppm	C. Viscosity (cps): @ F _ 100 F _ 150 F
Bromine as Br	%	D. Ash: %
Chlorine as Cl	%	E. Settleable solids: %
Fluorine as F	%	F. Vapor Pressure @ STP (mm/Hg):
Sulfur as S	%	G. Is this waste a pumpable liquid? Yes _ No _
		H. Can this waste be heated to improve flow? Yes _ No _
		I. Is this waste soluble in water? Yes _ No _
		J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, WASTE FLAMMABLE LIQUID, N.O.S.

D001

and Additional Description if required: (CONTAINS)

C. DOT Regulations: United Nations Hazard Class: 3 Flammable Liquid I.D. UN1993 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (lb, Kg): 100 lb

E. Non-Bulk code 203 Bulk code 242

F. Special Provisions

G. Labels Required FLAMMABLE LIQUID

Toluene 1,000 lbs
Xylene 1,000 lbs
Acetone 5,000 lbs
Methanol 5,000 lbs

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D006			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	136 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

Date Printed 10/26/93

EMR 0K3546

Profile #

OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,6,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 10/26/93 EME BK3544

Profile #

ACHMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile

Constituents	Range	Unit Description
BUTANOL	20 to 70	%
HEPTANE	20 to 70	%
MEK	20 to 70	%
MIBK	20 to 70	%
TRICHLOROETHYLENE	to 1	%
1,1,1 TRICHLOROETHANE	0 to 5	%
PERCHLOROETHYLENE	0 to 5	%

Date Printed 10/26/93

EMR BK3566

Profile #

ELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: FSUBS
Sales Office. . . :
CWM Location Orig.: SRL
Profile Expires . : 10/25/95
Approved. . . . . : 10/25/93
Signed Profile Present: N Change Pending: _ Waste Status: A
Site (DCS) Status: P PENDING ADEM INFO
Prof. Tracking No: 618897

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 01 ACID/ORGANIC
02 POLY TYVEK 12 CONTAINS ORGANICS (FNA)
05 EXTREMELY FLAMMABLE 11 BULK AND DRUM

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # :
DOT Properties: Inhalation: 3 Dermal: 2 Oral: 3 Flammable: 4 Health: 3

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: __ Download Generator: 1083729
Material Class.: 0 DCS Generator #...: 9999999999
Treatment Codes: 138 __ __ __ __ __
Process Codes .: 17 25 __ __ __ __ __ __ __ __
Schedule Category : DSTB
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration ___ Boiling Point F ___
Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR (FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract In Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract In Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT/BTU IC/PAT CK IC/LDR/RG4	PSC	FUEL BLENDING BTU Cl2
PSC	BULK FOR INCINERATION	PSC	(GEN) APPROVED FOR

SUPPLEMENTAL FIELDS

Field	Value
APBLL	NOU
APFEE	01

Date Printed 10/26/93

Profile Change History

EMR BK3544

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
This profile has no recorded changes.		

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4618898 Priority : 30
Profile # : BK3545 Date Received: 10/19/93
Effective Date: 10/25/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUIDS/WATER

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS BULK LIQUID FOR STORE AND TRANSSHIP TO ROLLINS FOR INCINERATION.

(3) Site and Contracting Conditions
THIS IS A CERCLA WASTE.

c) Analytical Requirements for Each Load
Fingerprint
Compatibility Check
BTU/IC

d) Decision Expiration Date 10/25/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) CYNTHIA GUILLORY Date 10/25/93

Liquid Incineration material, high chlorine

Date Printed 10/26/93 Chemical Waste Management, Inc. SME SK3545

WASTE PROFILE Profile #

Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST - REMEDIAL SERVICES SOUTH

100 GLENBOROUGH

BYHALIA MS 38611 SUITE 500

3. Technical Contact/Phone: GEORGE PONDER 601/851-7367 HOUSTON TX 77067-0000

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC LIQUIDS/WATER

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D001 D035 D039

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 75 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (_) 73-99F (X) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
PERCHLOROETHYLENE	50 to 95	%
...HYLENE CHLORIDE	20 to 70	%
1,1,1 TRICHLOROETHANE	20 to 75	%
FREON	10 to 20	%
ACETONE	10 to 20	%
BUTANOL	10 to 20	%
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	550.000000	

See attachment 2

12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _____ ppm. NESHAP (_) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (X) Drum (_) Type/Size: BULK Other TANKER

15. ANTICIPATED ANNUAL VOLUME: 28000 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4618898

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): TANK

Date Sampled: 10/15/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All [illegible] information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize [illegible] to obtain a sample from any waste shipment for purposes of recertification.

Signature GEORGE W. PONDER, III Name and Title CHAIRMAN, RCRA SUB COMMITTEE Date

Date Printed 10/26/93

EMF BK3545

Profile #

This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1							
2							
3							
4							
5							
6							
7							
8							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: .800 to 1.100

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color _____, DOT physical state Liquid,

and physical appearance LOW VISCOSITY, ORGANIC

Date Printed 10/26/93

EME BK3545

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be	< 50	ppm	A. Heat Value (Btu/lb): 10000-15000
Potassium as K	< 1000	ppm	B. Water: ____
Sodium as Na	< 1000	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: ____ %
Chlorine as Cl	< 1	%	E. Settleable solids: ____ %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	< 1	%	G. Is this waste a pumpable liquid? Yes X No _
			H. Can this waste be heated to improve flow? Yes _ No X
			I. Is this waste soluble in water? Yes _ No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes X No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, WASTE FLAMMABLE LIQUID, N.O.S.

and Additional Description if required: (D001,)

C. DOT Regulations: United Nations Hazard Class: 3 Flammable liquid I.D. UN1993 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (lb, Kg): 1 Lb

E. Non-Bulk code 203 Bulk code Z42

F. Special Provisions B1

G. Labels Required FLAMMABLE LIQUID

28. SPECIAL HANDLING INFORMATION

ALL METAL AND/OR ORGANIC COMPOUNDS PRESENT IN THE WASTE AT OR ABOVE 1%

ARE LISTED UNDER SECTION 11 OF THIS PROFILE.

BASED ON GENERATOR'S KNOWLEDGE:

1) THIS WASTE DOES NOT CONTAIN ANY COMPRESSED GASES NOR ANY MUNICIPAL GARBAGE.

2) THIS WASTE DOES NOT CONTAIN t-BUTYL MERCAPTAN AT OR ABOVE 5000 PPM.

3) SELENIUM IN SECTION 31 AND TC ORGANICS IN SECTION 32 ARE BASED ON GENERATOR'S KNOWLEDGE.

_ Material Safety Data Sheets Attached

F Date Printed 10/26/93

EMR BK3545

Profile #

. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 10/26/93

EHE BK3563

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		<50 ppm
Barium as Ba	X	100.0 mg/l		D005					<100 ppm
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		<100 ppm
Chromium tot Cr	X	5.0 mg/l		D007					<100 ppm
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		<100 ppm
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		<0.2 ppm
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					<100 ppm
Nickel as Ni						X	134 mg/l		<100 ppm
Thallium as Tl						X	130 mg/l		<100 ppm
Chromium Hex							500 mg/l		
Antimony									<100 ppm
Beryllium									<50 ppm
Copper									
Vanadium									<100 ppm
Zinc									
Potassium									<1000 ppm
Sodium									<1000 ppm

Date Printed 10/26/93

EMC BK3565

Profile #

OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 10/26/93

EMC BK3545

Profile #

ATTACHMENT 2

CHEMICAL COMPOSITION: Additional constituents NOT included on page 1 of the Waste Profile

Constituents	Range	Unit Description
HEPTANE	10 to 20	%
XYLENE	10 to 20	%
TOLUENE	20 to 50	%
ETHANOL	10 to 20	%
MEK	10 to 20	%
WATER	25 to 70	%
TRICHLOROETHYLENE	25 to 50	%

F Date Printed 10/26/93 EME BK3565

Profile #

MISCELLANEOUS PROFILE FIELDS

Billing Region Lab: SRL
Master Profile No.: PTA-MC
Sales Office. . . :
CLM Location Orig.: SRL
Profile Expires . : 10/25/95
Approved. . . . . : 10/25/93
Signed Profile Present: N Change Pending: _ Waste Status: A
Site (DCS) Status: P PENDING ADEM INFO
Prof. Tracking No: 4618498

Fuels Approval.:
Pumpable Liquid Exact: __ % OR Range: __ - __ %
Type of Pump. .:
Additional Anticipated Vol: _____ Per: _ Unit Code/Dns: __

Handling Codes: C LEVEL C PROTECTION 01 ACID/ORGANIC
02 POLY TYVEK
03 AVOID SKIN CONTACT 12 BULK

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # :
DOT Properties: Inhalation: 3 Dermal: 2 Oral: 2 Flammable: 3 Health: 3

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: Download Generator: T083729
Material Class.: 0 DCS Generator #...: 9999999997
Treatment Codes: T06 T07 S02
Process Codes .: 15 16 19
Schedule Category : OSTD
Schedule Interval :
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : __ Gas Evolution : __ Wet Zone . . . . . .: _
Self-heating cube sz __ Vapor Concentration __ Boiling Point F __
Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_			_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_			_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT//PCB'S: NOT REQUIRED IC/LDR/R04	PSC	INCINERATE FUEL/AFTERBURNER/KILN LIQUID
PSC	.	PSC	MUST BE SINGLE-LAYERED W/SETTLEABLE SOLIDS <5%.
PSC	(SCH) NEED IWC WASTE CODE NUMBER	PSC	PRINT WORKSET FOR ADDITIONAL PSC COMMENTS
PSC	(SCH) NEED IWC GENERATOR REGISTRATION NUMBER	PSC	(GEN) APPROVED FOR PORT ARTHUR

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	05

Date Printed 10/26/93

Profile Change History

EME BK3545

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
This profile has no recorded changes.		

Chemical Waste Management, Inc.

PORT ARTHUR INCINERATION ADDENDUM

Please print in ink or type.

BK 3545

Generator: Enterprise Recovery Systems Site PRP Group Profile Number: BO

INSTRUCTIONS: Please indicate whether or not either of the compounds listed below are present in this waste stream by marking the appropriate block for each compound. If either or both of these compounds are present, please indicate the actual concentration (as ranges or 'less than' values, please) in the space provided. Please specify the method used in this determination (including the method number where appropriate) and QA/QC procedures used. Where 'Other' methods/QA/QC are indicated, please explain these in the 'Comments' section of the form.

N-Nitrosodiethanolamine:

Present in the waste? X No ___ Yes, concentration _____

Analytical Method: ___ Generator knowledge
___ EPA Approved - Method number: _____
___ Other (specify in Comments)

QA/QC Method: ___ Generator knowledge
___ EPA Approved
___ Other (specify in Comments)

N-Nitrosodiethylamine:

Present in the waste? X No ___ Yes, concentration _____

Analytical Method: ___ Generator knowledge
___ EPA Approved - Method number _____
___ Other (specify in Comments)

QA/QC Method: ___ Generator knowledge
___ EPA Approved
___ Other (specify in Comments)

NOTE: Concentrations of N-Nitrosodiethylamine at or above one percent (1%) must be analyzed by EPA approved methods.

COMMENTS: _____

Signature: [signature] Date: 1-26-94

Name: Harry S. Kemp Title: ERS PRP Representative

Location of Original CWM SOUTHERN REGION LAB

Tracking #: 4619666 Priority : 30
Profile # : BK3546 Date Received: 11/01/93
Effective Date: 11/08/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUID

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS LIQUID FOR STORE AND TRANSSHIP TO CERCLA APPROVED OUTLET FOR INCINERATION AT ROLLINS.

(3) Site and Contracting Conditions
THIS IS A CERCLA WASTE.

c) Analytical Requirements for Each Load
Fingerprint
BTU/IC

d) Decision Expiration Date 11/08/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) CYNTHIA GUILLORY Date 11/08/93

APPENDIX C-2

TANK FARM STORMWATER SAMPLE ANALYSIS

LAIDLAW ENVIRONMENTAL SERVICES

Treatment and Disposal

Profile 50180

December 16, 1993

→ Storm Water from inside of tank farms.

Mr. Eugene Smary, Esq.
Warner, Norcross & Judd
900 Old Kent Building 111 Lyon Street
N.W., Grand Rapids, MI 49503-2489

Dear Eugene:

Thank you for your continued interest in OSCO's facilities and services. OSCO Treatment Systems, Inc. (TND981922826), has the proper permits in place as required under 40 CFR 264.12 (b), to manage the waste described in the Material Profile Form referenced below. We are pleased to offer the following quotation.

Effective Dates: December 15, 1993 through December 15, 1994.

Waste	Generator	Profile #	Treatment Rate	
Stormwater ERS	Enterprise Recovery Systems Byhaha, MS	50180	< 1% Biomass	$0.32/gal.
			≥ 1% but < 3% Biomas	$0.40/gal.
			> 3% but < 5% Biomass	$0.49/gal.
			≥ 5% but < 7% Biomass	$0.65/gal.
			> 7% but < 10 Biomass	$0.72/gal.

Other Charges: Rinse fee $40.00 per load
Weigh-in fee $ 6.00 per load

The above pricing does not include tanker clean out if unpumpable solids remain after off-loading.

For waste materials destined for an OSCO facility for treatment or disposal, OSCO and/or Bryson have the appropriate permit(s) for, and will accept waste conforming to the description.

You may consider this proposal valid for 90 days from the above date. It is the generator's responsibility to notify OSCO Treatment Systems, Inc. in the event of a process change which will cause the waste to change.

Approvals and rates remain in effect for one (1) year, unless OSCO Treatment Systems, Inc. issues written notification thirty (30) days in advance.

We look forward to serving your environmental needs. If you have any questions, or require any additional information, please do not hesitate to call me at (615) 350-6445.

Sincerely,

Sandra Gentry

Sandra Gentry
Customer Service Representative

cc: Tom Toomey
Harry Kemp
A. Christian Worrell, III, Esq.

OSCO Treatment Systems, Inc.
7140 Centennial Place Nashville, Tennessee 37209
Wats 1.800.926.0081 Phone 615.350.6445 Fax 615.350.6446

LAIDLAW ENVIRONMENTAL SERVICES

NAME OF WASTE STREAM: TANK CONTAINMENT STORMWATER, ERS

MATERIAL PROFILE NO.: 50180

☐ New ☐ Amendment

GENERATOR INFORMATION

Generator Name: ENTERPRISE RECOVERY SYSTEMS, PRP
Facility Address: HWY 5, BOX 267
City/County: Sylacauga,
State: AL Zip Code: 35150
USEPA ID#: ALSD 000693176
State ID#:

Technical Contact: HARRY KEMP
Telephone (701): 851-7254 EXT.
Fax (701):
Billing Name: ENTERPRISE RECOVERY SYSTEMS, PRP
Billing Address: HWY 5, BOX 267
City: Sylacauga State: AL Zip Code:
Attention: HARRY KEMP
Telephone (601): 851-7254 EXT.

B. DOT Shipping Name: NON-REGULATED
Hazard Class:
UN/NA No.: Packing Group: RQ:

C. RCRA RCRA Non Hazardous/Exempt? ☒ Yes ☐ No Process Generating: RAINWATER COLLECTION & TANK FARM
State Waste Codes: NONE EPA Waste Codes: NONE

D. ANNUAL REPORT CODES
SIC Code:
Source Code: A
Form Code: B
Origin Code:
System Type: M

E. OTHER COMPONENTS

	No	Yes	Total ppm
PCB's	☒	☐	
Cyanides	☒	☐	
Sulfides	☒	☐	
Pesticides	☒	☐	
Phenolics	☒	☐	
Dioxins	☒	☐	
Halogens	☒	☐	%

F. PHYSICAL CHARACTERISTICS AT 70° F

1. Infectious or Biological Waste? ☐ Yes ☒ No
2. NRC Regulated Radioactive? ☐ Yes ☒ No
3. Reactivity ☒ None ☐ Pyrophoric ☐ Cyanides ☐ Sulfides ☐ Water Reactive ☐ Shock Sensitive ☐ DOT Explosive ☐ Other

☐ Gas (Cylinder) ☐ Solid %
☐ Aerosol ☐ Sludges %
☐ Lab-Pack ☒ Free Liquids 99 %
100%

Layers: ☐ Single Layered ☒ Bi-layered ☐ Multi-layered
Viscosity: ☒ Low ☐ Medium ☐ High
Odor: ☐ None ☒ Mild ☐ Strong Describe:
Color/Appearance:

Weight: Density 8 lbs./gal. (US. liq) lbs./cu. foot
Dry Weight ☐ <1.0% ☐ 1-5% ☐ 5-20% ☐ 20-100%

pH ☐ N/A ☐ 0-2 ☐ 2.1-4 ☒ 4.1-10 ☐ 10.1-12.4 ☐ ≥ 12.5 Exact

Flash Point (liquid only): ☐ <73°F (23°C) ☐ 73-140°F (23-60°C) ☐ 142-200°F (61-93°C) ☒ >200°F (93°C) ☐ N/A
Boiling Point: ☐ <95°F (35°C) ☒ >95°F (35°C) ☐ N/A

BTU/Lb. < 1000

Dermal Toxicity LD_{50} (Mg/Kg): ☐ ≤40 ☐ >40, ≤200 ☐ >200, ≤1000 ☐ >1000
4. Matena poisonous by inhalation? ☐ Yes ☒ No

Oral Toxicity LD_{50} (Mg/Kg): Solids: ☐ ≤5 ☐ >5, ≤50 ☐ >50, ≤200 ☐ >200; Liquids: ☐ >50, ≤500 ☐ >500

5. Is this waste stored in vented drums? ☐ Yes ☒ No
6. Is this waste pumpable? ☒ Yes ☐ No
7. Is this waste polymerizable? ☐ Yes ☒ No
8. Is waste stream subject to the National Emission Standards for Benzene Waste Operations (40 CFR 61 Subpart FF)? ☐ Yes ☒ No
9. Is this waste regulated as an ozone depleting substance (40 CFR part 82)? ☐ Yes ☒ No
10. Does this waste contain scrap metal pieces greater than 2 inches in size? ☐ Yes ☒ No

G. METALS ☐ NONE ☐ TCLP (MG/L) ☐ TOTAL (PPM)

	Reg. Limit	Below	Above	Range
Arsenic	5 mg/L	☒	☐	
Barium	100 mg/L	☒	☐	
Cadmium	1 mg/L	☒	☐	
Chromium	5 mg/L	☒	☐	
Copper		☒	☐	
Lead	5 mg/L	☒	☐	
Mercury	0.2 mg/L	☒	☐	
Nickel	134 mg/L	☒	☐	
Selenium	1 mg/L	☒	☐	
Silver	5 mg/L	☒	☐	
Zinc		☒	☐	
Others:				

H. PHYSICAL/CHEMICAL CONSTITUENTS

WATER	93.95 %
OIL	1-5 %
DEBRIS, BIOMASS, GRIT	1-3 %
ORGANICS	<.1 %
	%
	%
	%
	%
	%
	%
	%
	%
	%
	100 %

(Attach All MSDS, Sample Analysis and Additional Info.)

I. ANTICIPATED VOLUME

Qty.	Container	Qty.	Container
☐	5 gl. pail	☐	Cubic Yard Box*
☐	15 gl. carboy	☐	Super Sack*
☐	30 gl. drum	☐	Rolloff/Dump Trailer*
☐	55 gl. drum	☒ 1-9	Tanker*
☐	85 gl. drum	☐	Other

Per ☒ 1 Time ☐ Week ☐ Month ☐ Year ☐ Other

(*) Is this waste regulated as a Marine Pollutant (49 CFR 171.8)? ☐ Yes ☐ No

Generator's Certification:
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this profile.

Generator's Authorized Signature: [signature] Date 11-30-93

FDK / PRP Representative

INSTRUCTIONS

The following information is required for all waste to be considered for transportation, storage, treatment or disposal. Answers must not be abbreviated, must be printed in ink, and will be maintained in confidence. Responses of "none" or "not applicable" should be made when appropriate. Material Safety Data Sheets for all components of the waste should accompany this form, if available. A copy of this form should be retained by the customer.

ALL QUESTIONS MUST BE ANSWERED

Part A GENERAL INFORMATION

Part B DOT — Choose the most appropriate DOT shipping information by referring to 49 CFR 172.101.

Part C RCRA — Select applicable EPA waste codes by referencing 40 CFR 261.

Part D ANNUAL REPORT CODES —Obtain these codes from the EPA Hazardous Waste Report Booklet.

Part E OTHER COMPONENTS — Check the appropriate boxes and list the total parts per million. If data was obtained from laboratory analysis, attach a copy of the analysis.

Part F PHYSICAL CHARACTERISTICS AT 70 DEGREES F — Complete all sections. The flash point is a value attained using the appropriate test method referenced in 40 CFR 261.21. Dermal and oral toxicity can be found in chemical dictionaries or by referring to the Material Safety Data Sheet.

Part G METALS — Indicate if the metal concentrations are represented as total or leachable metals, and whether they are above or below the regulatory limit as defined by the Extraction Procedure contained in 40 CFR, Appendix II.

Part H PHYSICAL/CHEMICAL CONSTITUENTS — List all components of the waste using specific chemical names, including water, earth, or forms of debris. For each component, indicate the expected percent or other unit of measure in which the component is present. The constituents must total 100%.

Part I ANTICIPATED VOLUME — Enter the total volume to be treated, stored, or disposed.

Generator Certification: Must be signed by an authorized management representative of the company generating the waste stream described on this form.

FOR LAIDLAW ENVIRONMENTAL SERVICES USE ONLY

Sample Submitted ☐ Yes ☐ No No. of Samples _____ Chain of Custody ☐ Yes ☐ No Sample No. _____

Laidlaw Approval

☐ Approved ☐ Disapproved Approval # _____ Annual Analysis Date _____

Operations _____ Date _____

Comments _____

Land Disposal Restrictions

☐ Unrestricted ☐ Restricted Category _____ Sub Category _____

Variance Date _____ Treatability Group: ☐ WW ☐ NWW Treatment Technology _____

Legend No. _____ 40 CFR Ref.: ☐ 268.41 CCWE ☐ 268.42 Table 2 ☐ 263.43 CCW

Routing

TSD #1 _____ TSD #2 _____

Outgoing Approval # _____ Outgoing Approval # _____

Handling Codes _____ Handling Codes _____

Cost Codes _____ Cost Codes _____

Health and Safety

Special Handling Instructions _____

Sales

Customer No. _____ Billing Codes _____ Comments: _____

TC RULE CERTIFICATION/RECERTIFICATION FORM

Generator Name: Enterprise Recovery Location Bybaka, MS Waste Name Stormwater ERS
Profile # 5010 EPA ID # _____ Laidlaw Category _____

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23 and 261.24.

Constituent	*Regulatory Threshold Level	(Check One) Yes	No	Scientific Data	Generator Knowledge	Actual Value
D001 (Ignitability) **	<140°F		✓		✓	
D002 (Corrosivity) **	≤2 or ≥12.5		✓		✓	
D003 (Reactivity)			✓		✓	
D004 (Arsenic)	5.0 ppm		✓		✓	
D005 (Barium)	100.0 ppm		✓		✓	
D006 (Cadmium)	1.0 ppm		✓		✓	
D007 (Chromium)	5.0 ppm		✓		✓	
D008 (Lead)	5.0 ppm		✓		✓	
D009 (Mercury)	0.20 ppm		✓		✓	
D010 (Selenium)	1.0 ppm		✓		✓	
D011 (Silver)	5.0 ppm		✓		✓	
D012 Endrin	0.02 ppm		✓		✓	
D013 Lindane	0.4 ppm		✓		✓	
D014 Methoxychlor	10.0 ppm		✓		✓	
D015 Toxaphene	0.5 ppm		✓		✓	
D016 2,4-D	10.0 ppm		✓		✓	
D017 2,4,5-TP Silvex	1.0 ppm		✓		✓	
D018 Benzene	0.5 ppm		✓		✓	
D019 Carbon Tetrachloride	0.5 ppm		✓		✓	
D020 Chlordane	0.03 ppm		✓		✓	
D021 Chlorobenzene	100.0 ppm		✓		✓	
D022 Chloroform	6.0 ppm		✓		✓	

Constituent	*Regulatory Threshold Level	(Check One) Yes	No	Scientific Data	Generator Knowledge	Actual Value
D023 o-Cresol	200.0 ppm		✓		✓	
D024 m-Cresol	200.0 ppm		✓		✓	
D025 p-Cresol	200.0 ppm		✓		✓	
D026 Cresol	200.0 ppm		✓		✓	
D027 1,4-Dichlorobenzene	7.5 ppm		✓		✓	
D028 1,2-Dichloroethane	0.5 ppm		✓		✓	
D029 1,1-Dichloroethylene	0.7 ppm		✓		✓	
D030 2,4-Dinitrotoluene	0.13 ppm		✓		✓	
D031 Heptachlor (and its epoxide)	0.008 ppm		✓		✓	
D032 Hexachlorobenzene	0.13 ppm		✓		✓	
D033 Hexachlorobutadiene	0.5 ppm		✓		✓	
D034 Hexachloroethane	3.0 ppm		✓		✓	
D035 Methyl ethyl ketone	200.0 ppm		✓		✓	
D036 Nitrobenzene	2.0 ppm		✓		✓	
D037 Pentachlorophenol	100.0 ppm		✓		✓	
D038 Pyridine	5.0 ppm		✓		✓	
D039 Tetrachloroethylene	0.7 ppm		✓		✓	
D040 Trichloroethylene	0.5 ppm		✓		✓	
D041 2,4,5-Trichlorophenol	400.0 ppm		✓		✓	
D042 2,4,6-Trichlorophenol	2.0 ppm		✓		✓	
D043 Vinyl Chloride	0.2 ppm		✓		✓	

* As defined by the TCLP (Method 1311)

** If waste exhibits characteristics of Ignitability or Corrosivity, the ICR Rule Certification on the back must be completed.

✓ I certify that this waste is considered nonhazardous under 40 CFR 261 (Please initial if applicable)

Indicate the expected concentrations of the following parameters for this waste stream:

Cyanide (ppm) 0 Ammonia (ppm) 0 TOC (ppm) 0 VOC (ppm) 0 COD (ppm) 0

TPH (ppm) 0 TCLP TPH (ppm) 0 BOD (ppm) 0 Oil (%) 0 Ash (%) 0 Chloride (ppm) 0

Does this waste contain any of the following: Pesticides, Herbicides, or Dioxins? Please Initial one: Yes ____ No ____
If YES, indicate compounds and concentrations: _____

"LISTED" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40 CFR 261.31, 261.32, and 261.33 by including the appropriate EPA hazardous waste code(s).

_____ _____ _____ _____ _____ _____ _____ _____ _____

Please initial each statement if your waste does not carry any listed hazardous wastes coded in 40 CFR 261.31, 261.32, and/or 261.33:

✓ I certify that this waste does not contain any listed hazardous waste(s) coded in 40 CFR 261.31, 261.32, and/or 261.33.

____ I certify that the treatment of this waste will not produce any listed hazardous waste(s) coded in 40 CFR 261.31 and/or 261.32 (i.e. F006 sludges from the treatment of electroplating wastewater, F019 sludges from aluminum chemical conversion coating wastewaters).

SORBENT NOTIFICATION: Please initial the appropriate line.

✓ I have not added sorbents (i.e., material that is used to soak up free liquids by either adsorption or absorption, or both. Sorb means to either adsorb, absorb, or both) to the waste streams indicated above.

____ I have added sorbents (i.e., material that is used to soak up free liquids by either adsorption or absorption, or both. Sorb means to either adsorb, absorb, or both) to the waste streams indicated above. I certify that any sorbent agents added to this waste are considered nonbiodegradable as indicated in 40 CFR Section 264.314 & 265.314.

REPRESENTATIVE SAMPLE CERTIFICATION: Please initial below.

✓ I certify that the sample presented is representative of the waste, and has been collected in accordance with "Test Methods for the Evaluation of Solid Waste, Physical / Chemical Methods" SW846, USEPA, Office of Solid Waste, Washington, D.C. 20460.

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authorize Laidlaw Environmental Services (TS), Inc. to conduct necessary testing at my expense to properly complete the form and to modify my profile based upon the analytical done on the representative sample sent upon my notification.

Name Harry S. Kemp Signature [signature] Title ERS PRP Rep. Date 12-11-93

THIS CERTIFICATION/RECERTIFICATION IS REQUIRED FOR EACH PROFILE TO LAIDLAW ENVIRONMENTAL SERVICES (TS), INC

ORIGINAL SIGNATURE REQUIRED

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
GC/MS FRACTION - VOLATILE COMPOUNDS

Frac Tank 1
Next to tank farm

CLIENT NAME : RUST REMEDIAL SERVICES
PROJECT # : 531490
DATE ANALYZED : 11/05-06/93
ANALYST : LS
SITE ID : ENTERPRISE RECOVERY
SAMPLE ID : WST #1
SAMPLE DATE : 11/04/93
DATE ARRIVED : 11/04/93
MATRIX : AQUEOUS
FILE NAME : 9311-143.DOC
SAMPLE # : 9311-143-1
METHOD (SW 846) : 8240

COMPOUND	RESULTS UNITS:(ppb)	PQL
Acetone	ND	2000
Acrolein	ND	1000
Acrylonitrile	ND	1000
Benzene	ND	100
Bromodichloromethane	ND	100
Bromoform	ND	100
Bromomethane	ND	100
Carbon Disulfide	ND	1000
Carbon Tetrachloride	ND	100
Chlorobenzene	ND	100
Chlorodibromomethane	ND	100
Chloroethane	ND	100
2-Chloroethyl vinyl ether	ND	1000
Chloroform	ND	100
Chloromethane	ND	100
Dibromoethane	ND	100
1,4-Dichloro-2-butene	ND	100
Dichlorodifluoromethane	ND	100
1,1-Dichloroethane	ND	100

COMPOUND	RESULTS UNITS:(ppb)	PQL
1,2-Dichloroethane	ND	100
1,1-Dichloroethene	ND	100
trans-1,2-Dichloroethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	100
trans-1,3-Dichloropropene	ND	100
Ethylbenzene	21	100
Ethyl Methacrylate	ND	1000
2-Hexanone (MBK)	ND	1000
Iodomethane	ND	100
4-Methyl-2-pentanone (MIBK)	24j	1000
Methylene Chloride	ND	400
2-Butanone (MEK)	ND	1000
Styrene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Tetrachloroethane	17	100
Toluene	49	100
1,1,1-Trichloroethane	15	100
1,1,2-Trichloroethane	ND	100
Trichloroethene	9	100
Trichlorofluoromethane	ND	100
1,2,3-Trichloropropane	ND	100
Vinyl Acetate	ND	1000
Vinyl Chloride	ND	100
Xylenes (total)	160	100

Units: ppb

SURROGATE STANDARDS	RESULT	EXP	%REC	QC LIMITS % RECOVERY
1,2-Dichloroethane-d4	52.0	50.0	104	70-120
Toluene-d8	47.5	50.0	95	81-117
4-Bromofluorobenzene	51.4	50.0	103	74-121

PQL - PRACTICAL QUANTITATION LIMIT
ND - NOT DETECTED
j - ESTIMATED VALUE

Total 295 ppb

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
GC/MS FRACTION - VOLATILE COMPOUNDS

Frac Tank 2
Next to building

CLIENT NAME : RUST REMEDIAL SERVICES
PROJECT # : 531490
DATE ANALYZED : 11/05-07/93
ANALYST : LS

SITE ID : ENTERPRISE RECOVERY
SAMPLE ID : WST #2
SAMPLE DATE : 11/04/93
DATE ARRIVED : 11/04/93
MATRIX : AQUEOUS
FILE NAME : 9311-143.DOC
SAMPLE # : 9311-143-2
METHOD (SW 846) : 8240

COMPOUND	RESULTS UNITS:(ppb)	PQL
Acetone	ND	100
Acrolein	ND	50
Acrylonitrile	ND	50
Benzene	ND	5
Bromodichloromethane	ND	5
Bromoform	ND	5
Bromomethane	ND	5
Carbon Disulfide	ND	50
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chlorodibromomethane	ND	5
Chloroethane	ND	5
2-Chloroethyl vinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	5
Dibromoethane	ND	5
1,4-Dichloro-2-butene	ND	5
Dichlorodifluoromethane	ND	5
1,1-Dichloroethane	ND	5

COMPOUND	RESULTS UNITS:(ppb)	PQL
1,2-Dichloroethane	ND	5
1,1-Dichloroethene	ND	5
trans-1,2-Dichloroethene	ND	5
1,2-Dichloropropane	ND	5
cis-1,3-Dichloropropene	ND	5
trans-1,3-Dichloropropene	ND	5
Ethylbenzene	73j	5
Ethyl Methacrylate	ND	50
2-Hexanone (MBK)	ND	50
Iodomethane	ND	5
4-Methyl-2-pentanone (MIBK)	1,120	50
Methylene Chloride	ND	20
2-Butanone (MEK)	ND	50
Styrene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Tetrachloroethane	ND	5
Toluene	162	5
1,1,1-Trichloroethane	58j	5
1,1,2-Trichlroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
1,2,3-Trichloropropane	ND	5
Vinyl Acetate	ND	50
Vinyl Chloride	ND	5
Xylenes (total)	540	5

Units: ppb

SURROGATE STANDARDS	RESULT	EXP	%REC	QC LIMITS % RECOVERY
1,2-Dichloroethane-d4	48.4	50.0	97	70-120
Toluene-d8	48.3	50.0	97	81-117
4-Bromofluorobenzene	49.2	50.0	98	74-121

PQL - PRACTICAL QUANTITATION LIMIT
ND - NOT DETECTED
J - ESTIMATED VALUE

LABORATORY MANAGER

Total 1,953 ppb

TC Rule Certification / Recertification Form

Generator Name: ENTERPRISE RECOVERY SYSTEMS EPA ID#: MSD000693173

Location: BYHALIA, MS

Profile #: TANK CONTAINMENT STORMWATER, ERS.

CHARACTERISTICS OF HAZARDOUS WASTE: Indicate if this waste contains any of the following characteristics based on criteria mandated by 40 CFR 261.21, 261.22, 261.23, and 261.24.

Replaced 12-11-93

		*Regulatory Threshold Level	(Check One) Yes	No	(Check One) Scientific Data	Generator's Knowledge	Actual Value
D001	Characteristic of Ignitability	< 140 °F		✓		✓	°F
D002	Characteristic of Corrosivity	≤ 2 or ≥ 12.5		✓		✓	pH
D003	Characteristic of Reactivity			✓		✓	

	Constituent	*Regulatory Threshold Level, ppm	(Check One) Yes	No	(Check One) Scientific Data	Generator's Knowledge	Actual Value (ppm)
D004	(Arsenic)	5.0		✓		✓	
D005	(Barium)	100.0		✓		✓	
D006	(Cadmium)	1.0		✓		✓	
D007	(Chromium)	5.0		✓		✓	
D008	(Lead)	5.0		✓		✓	
D009	(Mercury)	0.2		✓		✓	
D010	(Selenium)	1.0		✓		✓	
D011	(Silver)	5.0		✓		✓	
D012	Endrin	0.02		✓		✓	
D013	Lindane	0.4		✓		✓	
D014	Methoxychlor	10.0		✓		✓	
D015	Toxaphene	0.5		✓		✓	
D016	2, 4-D (2, 4-Dichloro-phenoxyacetic acid)	10.0		✓		✓	
D017	2, 4, 5-TP Silvex	1.0		✓		✓	
D018	Benzene	0.5		✓	✓		
D019	Carbon Tetrachloride	0.5		✓	✓		
D020	Chlordane	0.03		✓	✓		
D021	Chlorobenzene	100.0		✓	✓		
D022	Chloroform	6.0		✓	✓		
D023	o-Cresol	200.0		✓	✓		
D024	m-Cresol	200.0		✓	✓		
D025	p-Cresol	200.0		✓	✓		

– Continued –

	Constituent	*Regulatory Threshold Level, ppm	(Check One) Yes	No	(Check One) Scientific Data	Generator's Knowledge	Actual Value (ppm)
D026	Cresol	200.0		✓	✓		
D027	1,4-Dichlorobenzene	7.5		✓	✓		
D028	1,2-Dichloroethane	0.5		✓	✓		
D029	1,1-Dichloroethylene	0.7		✓	✓		
D030	2,4-Dinitrotoluene	0.13		✓	✓		
D031	Heptachlor (and its hydroxide)	0.008		✓	✓		
D032	Hexachlorobenzene	0.13		✓	✓		
D033	Hexachlorobutadiene	0.5		✓	✓		
D034	Hexachloroethane	3.0		✓	✓		
D035	Methyl ethyl ketone	200.0		✓	✓		
D036	Nitrobenzene	2.0		✓	✓		
D037	Pentachlorophenol	100.0		✓	✓		
D038	Pyridine	5.0		✓	✓		
D039	Tetrachloroethylene	0.7		✓	✓		
D040	Trichloroethylene	0.5		✓	✓		
D041	2,4,5-Trichlorophenol	400.0		✓	✓		
D042	2,4,6-Trichlorophenol	2.0		✓	✓		
D043	Vinyl Chloride	0.2		✓	✓		

As defined by the TCLP (Method 1311), EP Toxicity is no longer acceptable.

"LISTED" Hazardous Wastes: Indicate if this waste also contains any listed hazardous wastes coded in 40 CFR 261.31, 261.32 and 261.33 by including the appropriate EPA hazardous waste code(s).

NONE

GENERATOR CERTIFICATION:

I hereby certify that all information submitted on this form and all attached documents are true and accurate. In the event that this form is not fully completed, I authoirze Laidlaw Environmental Services to conduct necessary testing at my expense to properly complete the form.

Signature: [signature] Date: 11-30-93

Print Name: Harry S. Kemp Title: ERS PRP Representative

THIS CERTIFICATION/RECERTIFICATION IS REQUIRED FOR EACH PROFILE.
ORIGINAL SIGNATURE REQUIRED

Revised 8-17-90

OSCO TREATMENT SYSTEMS, INC.
Waste Profile Report

601-851-9051

Profile # 50180 | Date

Generator	Customer
ENTERPRISE RECOVERY SYSTEMS BYHALIA MS	ENTERPRISE RECOVERY SYSTEMS BYHALIA MS HARRY KEMP

Process Generating Waste: RAINWATER COLLECTION AT TANK FARM

Waste Description: WATER

Physical/Chemical Characteristics

pH	6.40	% Oil		Ammonia	<10
Specific Gravity	1.00	% Water	99 100	Cyanide	
Viscosity		% Solids	1	Sulfide	
Total Dissolved Solids		% Ash		COD	<5000
Chlorine (Pos/Neg)	NEG	Flash (F)	>140	VOC	3
Color	GREEN	BTU/gal		TOC	
Odor	STRONG	PCB		Phenols	

Pretreatment Total Metals (ppm)

	Actual			Actual			Actual	
Arsenic	<1.0		Lead	<1.0		Copper	<1.0	
Barium	<1.0		Mercury	<0.20		Nickel	<1.0	
Cadmium	<1.0		Selenium	<1.0		Zinc	<1.0	
Chromium	<1.0		Silver	<1.0		Iron	14.17	

Posttreatment Total Metals (ppm)

	Actual			Actual			Actual	
Arsenic	<1.0		Lead	<1.0		Copper	<1.0	
Barium	<1.0		Mercury	<0.20		Nickel	<1.0	
Cadmium	<1.0		Selenium	<1.0		Zinc	<1.0	
Chromium	<1.0		Silver	<1.0		Iron	<1.0	

Acceptable for treatment (Yes,No): Yes

TCLP Metals (mg/L)

	Limit	Actual			Limit	Actual
As (D004)	5.0			Pb (D008)	5.0	
Ba (D005)	100.0			Hg (D009)	0.2	
Cd (D006)	1.0			Se (D010)	1.0	
Cr (D007)	5.0			Ag (D011)	5.0	

TOTAL Organics (mg/L)

	Limit	Actual			Limit	Actual
Benzene (D018)	0.50			Hexachlorobenzene (D032)	0.13	
Carbon tetrachloride (D019)	0.50			Hexachlorobutadiene (D033)	0.50	
Chlorobenzene (D021)	100.00			Hexachloroethane (D034)	3.00	
Chloroform (D022)	6.00			Methyl ethyl ketone (D035)	200.00	
o-Cresol (D023)	200.00			Nitrobenzene (D036)	2.00	
m-Cresol (D024)	200.00			Pentachlorophenol (D037)	100.00	
p-Cresol (D025)	200.00			Pyridine (D038)	5.00	
Cresol (D026)	200.00			Tetrachloroethylene (D039)	0.70	
1,4-Dichlorobenzene (D027)	7.50			Trichloroethylene (D040)	0.50	
1,2-Dichloroethane (D028)	0.50			2,4,5-Trichlorophenol (D041)	400.00	
1,1-Dichloroethylene (D029)	0.70			2,4,6-Trichlorophenol (D042)	2.00	
2,4-Dinitrotoluene (D030)	0.13			Vinyl chloride (D043)	0.20	

* ALL CONCENTRATIONS IN PPM UNLESS OTHERWISE SPECIFIED

Profile Chemist

Rhonda L. Austin
Laboratory Manager

PROFILE COMMITTEE REVIEW FORM

PROFILE NUMBER	50180	REVIEW START	12/9/93
GENERATOR	ENTERPRISE RECOVERY	COMPLETED	
BROKER		VOLUME	40000
WASTE DESCRIPTION	WATER		

LABORATORY REVIEW

X	TREATMENT TYPE	CHEMICAL	AMT.	COST	OTHER COSTS	AMT.	COST
	ACID (A)	Sulfuric Acid (%)	0.00	0.00	Char. Filter Cake Disp.(g.)	0.00	0.00
	CAUSTIC (C)	Sodium Bisulfite (%)	0.00	0.00	Listed Filter Cake Disp.(g.)	0.00	0.00
	CHARACTERISTIC (T)	Ferric Chloride (%)	0.00	0.00	Char. Oil Disposal (% oil)	0.00	0.00
	LISTED (L)	Sulfide (%)	0.00	0.00	Listed Oil Disposal (% oil)	0.00	0.00
X	BIO ONLY (B)	Lime (%)	0.00	0.00	SPECIAL HANDLING		
	OIL (O)	TOTAL WATER TREATMENT COST		0.10	COD SURCHARGE	20000	0.00
	STABILIZATION (MAX)	CKD (%) + % WATER	100.00	9.83	AMMONIA SURCHARGE	1000	0.00
	DRUMS ONLY (DO)	Solidification (dm/hr)	4.00	20.00	MIN. BULK PRICE ($/gal)		20[illegible]
	BROKER (SO)	TOTAL SOLIDIFICATION PRICE ($/DM)		N/A	MIN. DRUM PRICE ($/Dm)		N/A

LAB COMMENTS: Cost → 0.20

PROFILE REVIEW LOG

Date	Comment	By	Action Required	By	Compl.
12/9	What does BIOMASS mean?	[illegible]			
	Do they want it priced for sample or profile				
	Sample = .20 min				
	Profile = .30 min .40gal				
12-9	Need New 47C Cents fill out Annual Report Code	[illegible]			

COMMITTEE APPROVALS

Sales Director		Date	
Safety & Health Manager		Date	
Compliance Manager		Date	
Laboratory Manager		Date	
Operations Manager		Date	
Facility Manager		Date	

APPENDIX C-3

TANK BOTTOMS SAMPLE ANALYSIS/PROFILE

Date 12/0?/93 WASTE MANAGEMENT DECISION Page . . : 1
Time 8:06:48

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4620298 Priority : 30
Profile # : BO4220 Date Received: 11/29/93
Effective Date: 12/08/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: CW
Description : SOLIDIFIED TANK BOTTOMS

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

PTA Decision Pending 12/20

Final Approval _____ Name (print) _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CERCLA APPROVED INCINERATOR.

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS DRUM OR BULK SOLID TO BE STORED AND TRANSSHIPPED TO A CERCLA APPROVED INCINERATOR FOR DISPOSAL.

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 12/08/95

DEC 1993 RECEIVED

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) LORENZO FITCH Date 12/08/93

Date Printed 12/09/93 Chemical Waste Management, Inc. EME B04220

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator MSEPA ID: MSD000693175

2. Generator Address: RT 5 BOX 287 Billing Address: RUST REMEDIAL SERVICES
(_) Same
100 GLENBOROUGH STE 500

BYHALIA MS 38611

3. Technical Contact/Phone: JEFF BENNETT 901/372-7962 HOUSTON TX 77067

4. Alternate Contact/Phone: MIKE ENTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID, SOLID, ORGANIC, AND AQUEOUS WASTE STREAM

6. Waste Name: SOLIDIFIED TANK BOTTOMS

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D001 D035 D039 D040

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(_) Both(X) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 0 to 2%

9A. pH: Range or Not applicable (X) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit	Description
TANK BOTTOM SLUDGE WHICH IS NONCHLORINATED	20 to 99	%	
FLY ASH	1 to 80	%	
CEMENT	0 to 20	%	
	to		
	to		
	to		
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	199.000000		

12. OTHER: PCBs if yes, concentration N ppm. PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other: STEEL ROLL OFF BOX

15. ANTICIPATED ANNUAL VOLUME: 20 Units: TONS Shipping Frequency: YEAR

SAMPLING INFORMATION Sample Tracking Number: 4620298

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): TANK

Date Sampled: 11/23/93 Sampler's Name/Company: TODD HOLLEASHEAD RUST REMEDIAL SERVICES

16b. Generator's Agent Supervising Sampling: 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile B04220 EPS PRP REPRESENTATIVE

Signature Name and Title Date

Date Printed 12/09/93

RMI B04220

Profile #

19. This is a Nonwastewater.

1[illegible] this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to [illegible]ch restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D001	All descriptions based on 40 C FR 261.21(a). Sub Cat 192				INCIN	A
2	D035		X				E
3	D039		X				E
4	D040		X				E
5							
6							
7							
8							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

[illegible]yanides: _ None _____ to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None _____ to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None _____ to _____ _____ Type _____

Optional Phenolics: _ None _____ to _____ _____

[illegible] DARK GRAY , DOT physical state Solid _____ ,

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION

	TOTAL	
Beryllium as Be		ppm
Potassium as K		ppm
Sodium as Na		ppm
Bromine as Br	< 1	%
Chlorine as Cl	< 1	%
Fluorine as F	< 1	%
Sulfur as S	< 1	%

26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)

RANGE

A. Heat Value (Btu/lb): 3000- 4900

B. Water: ____

C. Viscosity (cps): ____ @ ____ F _ 100 F _ 150 F

D. Ash: ____ %

E. Settleable solids: ____ %

F. Vapor Pressure @ STP (mm/Hg): ____

G. Is this waste a pumpable liquid? Yes _ No _

H. Can this waste be heated to improve flow? Yes _ No _

I. Is this waste soluble in water? Yes _ No _

J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE SOLID, N.O.S.

(D039, D040)

and Additional Description if required: ____

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I.D. NA3077 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb. Kg): 100 Lb

E. Non-Bulk code 213 Bulk code 240

F. Special Provisions ____

G. Labels Required CLASS 9

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE LIQUID, N.O.S.

(D039, D040)

and Additional Description if required: ____

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I.D. NA3082 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb. Kg): 100 Lb

E. Non-Bulk code 203 Bulk code 241

F. Special Provisions ____

Labels Required CLASS 9

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone		200.0 mg/l	X	D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent. Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005	1.69 ppm				
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008	.160 ppm		500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010	<.11 ppm		100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

Date Printed 12/09/93 EME B04220

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: REPACK
[illegible]e Office. . . : EME
[illegible] Location Orig.: SRL
Profile Expires . : 12/08/95
Approved. . . . . : 12/08/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4620298

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK
03 AVOID SKIN CONTACT 11 BULK AND DRUM

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required F _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 1 Health: 2

Percent Taxable: _____ No. of Labels. . .: _
Tranship Dest .: ___ Download Generator: 1083729
Material Class.: O DCS Generator #...: 6955472631
Treatment Codes: S01
Process Codes .: 01
Schedule Category : OSTR
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sr ___ Vapor Concentration _____ Boiling Point F ___
[illegible]s Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
[illegible]ical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	M2D000593176	G				

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST REMEDIAL SERVICES	N/A	I				

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT	PSC	DRUM OR BULK LOAD TO BE STORED AND TRANSSHIPPED TO
PSC	A CERCLA APPROVED FOR INCINERATOR (ROLLINS)	PSC	(GER) APPROVED FOR EME

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	05

Port Arthur

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 12/09/93 | Profile Change History | EME B04220

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
ADDED WASTE CODES D001, D035, D039 & D043 TO THE	12/08/93	WM0326SKG
LANDRAN PER LDF.	12/08/93	WM0326SKG
Entire profile copied from profile SRL/B04220.	12/08/93	WM0326SKG

12/09/93 LAND DISPOSAL NOTIFICATION AND CERTIFICATION FORM BMB-B04220

Generator Name: ENTERPRISE RECOVERY SYSTEMS Manifest Doc. No.: _____

CWM Profile Number: B04220 State Manifest No: _____

1. Check ONE: This is a X Nonwastewater Wastewater
2. If this waste is subject to any California List restrictions enter the letter from below (either A, B.1, or B.2) next to each restriction that is applicable:
   ___ HOCs. ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides
3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subdivision, or check NONE if the waste code has no subdivision. Also check which treatment standards apply. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies, those standards must be attached by the generator. If the specified treatment technology of "Deactivation, and meet F039" is identified for D001 and D002, underlying hazardous constituent standard(s) must also be attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBDIVISION ENTER THE SUBDIVISION DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. APPLICABLE TREATMENT STANDARDS			7. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
				6.a - PERFORMANCE-BASED: CHECK AS APPLICABLE		6.b - SPECIFIED TECHNOLOGY: IF APPLICABLE ENTER THE 40 CFR 268.42 TABLE 1 TREATMENT CODE(S)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42(a)	
1	D001	All descriptions based on 40 CFR 261.21(a). Sub Cat 192				INCIN	A
2	D035		X				E
3	D039		X				B
4	D040		X				E
5							
6							
7							
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26							
27							
28							

To identify F039 or D001, D002 underlying hazardous constituent standards, use the "F039/Underlying Hazardous Constituent form" provided and check here N

Additional USEPA waste code(s) and subdivision(s) are provided on the supplemental sheet (CWM-2001-B): N

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature _____ Title _____ Date _____

Date 12/09/93 WASTE MANAGEMENT DECISION Page : 1
Time 8:06:48

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Tracking #: 4629273 Priority : 10
Profile # : B06213 Date Received: 11/29/93
Effective Date: 12/08/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : SOLIDIFIED TANK BOTTOMS

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

12/20 PTA
Decision Pending

Final Approval _____ Name (print) _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CERCLA APPROVED INCINERATOR.

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS DRUM OR BULK SOLID TO BE STORED AND TRANSSHIPPED TO A CERCLA APPROVED INCINERATOR FOR DISPOSAL.

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 12/08/95

DEC 1993 RECEIVED

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) LORENZO FITCH Date 12/08/93

Date Printed 12/09/93 Chemical Waste Management, Inc. BHE B04213

WASTE PROFILE Profile #

( ) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RESOURCE SYSTEMS Generator EPA ID: MSD006093176

2. Generator Address: RT 5 BOX 287 Billing Address: RUST REMEDIAL SERVICES
( ) Same
100 GLENBOROUGH STE 500

BYHALIA MS 38611 HOUSTON TX 77067

3. Technical Contact/Phone: JEFF BENNETT 901/372-7962

4. Alternate Contact/Phone: MIKE PETTUS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID, SOLID, ORGANIC, AND AQUEOUS WASTE STREAMS

6. Waste Name: SOLIDIFIED TANK BOTTOMS

7A. Is this a RCRA hazardous waste (40 CFR Part 261)? Yes (X) No ( )

B. Identify ALL RCRA listed and characteristic waste code numbers (D,F,K,P,U): D001 D035 D039 D040

State Waste Codes:

8. Physical State @ 70F: A. Solid(X) Liquid( ) Both( ) Gas( ) B. Single Layer: (X) Multilayer ( ) C. Free liq. range 0 to 0%

9A. pH: Range or Not applicable (X) B. Strong (Mor (X)) describe SOLVENT

10. Liquid Flash Point: < 73F ( ) 73-99F ( ) 100-139F ( ) 140-199F ( ) >= 200F ( ) N.A. (X) Closed Cup (X) Open Cup ( )

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
[illegible] BOTTOM SLUDGE WHICH CONTAINS CHLORINE	20 to 99	%
FLY ASH	1 to 80	%
CEMENT	0 to 20	%
	to	
	to	
	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	199.000000	

12. OTHER: PCBs if yes, concentration N ppm. PCBs regulated by 40 CFR 761 ( ). Pyrophoric ( ) Explosive ( ) Radioactive ( ) Benzene If yes, concentration ppm. NESHAP (N) Shock Sensitive ( ) Oxidizer ( ) Carcinogen ( ) Infectious ( ) Other

13. If waste subject to the land ban & waste treatment standards, check here: & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid ( ) Drum (X) Type/Size: 55 GALLON DRUM Other STEEL, ROLL OFF BOX

15. ANTICIPATED ANNUAL VOLUME: 250 Units: TONS Shipping Frequency: YEAR

SAMPLING INFORMATION Sample Tracking Number: 4520273

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): TANK

Date Sampled: 11/23/93 Sampler's Name/Company: TODD BOLLEARTHEAD RUST REMEDIAL SERVICES

16b. Generator's Agent Supervising Sampling: 17. ( ) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile B04213 ERS PRE REPRESENTATIVE

Signature Name and Title Date

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to the restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none: DESCRIPTION	NONE	C. APPLICABLE TREATMENT STANDARDS: PERFORMANCE-BASED: Check as applicable: 268.41(a)	268.43(a)	SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s): 268.42	D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
1	D001	All descriptions based on 40 CFR 261.21(a). Sub Cat 192				INCIN	A
2	D035		X				E
3	D039		X				E
4	D040		X				E
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: None to _____ _____ Type _____

Optional Phenolics: None to _____ _____

DOT physical state Solid

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be		ppm	A. Heat Value (Btu/lb): 3000- 5000
Potassium as K		ppm	B. Water: ____
Sodium as Na		ppm	C. Viscosity (cps): ____ @ ____ F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: ____ %
Chlorine as Cl	< 1	%	E. Settleable solids: ____ %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	< 1	%	G. Is this waste a pumpable liquid? Yes _ No _
			H. Can this waste be heated to improve flow? Yes _ No _
			I. Is this waste soluble in water? Yes _ No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE SOLID ,N.O.S. (D039, D040)

and Additional Description if required: _____

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I D. NA3077 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 213 Bulk code 240

F. Special Provisions ____

G. Labels Required CLASS 9

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified in this approved profile.

Generator Name: ENTERPRISE RECOVERY SYSTEMS Manifest Doc. No.: _____

CWM Profile Number: B04213 State Manifest No: _____

1. Check ONE: This is a X Nonwastewater ___ Wastewater

2. If this waste is subject to any California List restrictions enter the letter from below (either A, E.1, or E.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

3. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subdivision, or check NONE if the waste code has no subdivision. Also check which treatment standards apply. Spent solvent and California List treatment standards are listed on the following page. If F039, multi-source leachate applies, those standards must be attached by the generator. If the specified treatment technology of "Deactivation, and meet F039" is identified for D001 and D002, underlying hazardous constituent standard(s) must also be attached.

REF #	4. US EPA HAZARDOUS WASTE CODE(S)	5. SUBDIVISION ENTER THE SUBDIVISION DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK NONE		6. APPLICABLE TREATMENT STANDARDS			7. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM BELOW
				6.a - PERFORMANCE-BASED: CHECK AS APPLICABLE		6.b - SPECIFIED TECHNOLOGY: IF APPLICABLE ENTER THE 40 CFR 268.42 TABLE 1 TREATMENT CODE(S)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42(a)	
1	D001	All descriptions based on 40 C FR 261.21(a). Sub Cat 192				INCIN	A
2	D035		X				E
3	D039		X				E
4	D040		X				E
5							
6							
7							
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27							
28							

To identify F039 or D001, D002 underlying hazardous constituent standards, use the "F039/Underlying Hazardous Constituent form" provided and check here N

Additional USEPA waste code(s) and subdivision(s) are provided on the supplemental sheet (CWM-2001-B): N

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature _____ Title _____ Date _____

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor. & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone		200.0 mg/l	X	D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 12/09/93

EME 804213

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent. Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005	.791 ppm				
Cadmium as Cd	X	1.0 mg/l		D006	<.033 ppm		100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007	<.042 ppm				
Lead as Pb	X	5.0 mg/l		D008	<.160 ppm		500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010	<.11 ppm		100 mg/l		
Silver as Ag	X	5.0 mg/l		D011	<.054 ppm				
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
[illegible]per									
Vanadium									
Zinc									

Date Printed 12/09/93

EME B04213

Profile #

MISCELLANEOUS PROFILE FIELDS

S[illegible]ing Region Lab: SRL
M[illegible] Profile No.: REPACK
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 12/08/95
Approved. . . . . : 12/08/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4620273

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK
03 AVOID SKIN CONTACT 11 BULK AND DRUM

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required 7 _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 1 Health: 2

Percent Taxable: ___ No. of Labels. . .: ___
Tranship Dest .: ___ Download Generator: 1083729
Material Class.: O DCS Generator #...: 6955472631
Treatment Codes: S01
Process Codes .: 01
Schedule Category : OSTB
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : _ Gas Evolution : ___ Wet Zone . . . . . .: _
[illegible]heating cube #2 ___ Vapor Concentration ___ Boiling Point F ___
[illegible] Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST REMEDIAL SERVICES	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT	PSC	DRUM OR BULK LOAD TO BE STORED AND TRANSSHIPED TO
PSC	A CERCLA APPROVED INCINERATOR (ROLLINS)	PSC	(GEN) APPROVED FOR EME

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	05

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
DELETED WASTE CODES D008 & D011 FROM LANDBAN PER	12/08/93	WM03268KC
LDF.	12/08/93	WM03268KC
Entire profile copied from profile SRL/BC4213.	12/08/93	WM03268KC

Chemical Waste Management, Inc.

PORT ARTHUR INCINERATION ADDENDUM

PLEASE PRINT IN INK OR TYPE

Generator: Enterprise Recovery Systems Site PRP Group Profile Number: B04213

INSTRUCTIONS: Please indicate whether or not either of the compounds listed below are present in this waste stream, by marking the appropriate block for each compound. If either or both of these compounds are present, please indicate the actual concentration (no ranges or "less than" values, please) in the space provided. Please specify the method used in this determination (including the method number--where appropriate), and QA/QC procedures used. Where "Other" methods/QA/QC are indicated, please explain these in the comments section of the form.

N-Nitrosodiethanolamine:

Present in the waste?: X No ___ Yes, concentration ___

Analytical Method:
- ✓ Generator knowledge
- ___ EPA Approved--Method number: ___
- ___ Other (specify in comments)

QA/QC Method:
- ✓ Generator knowledge
- ___ EPA Approved
- ___ Other (specify in comments)

N-Nitrosodiethylamine:

Present in the waste?: X No ___ Yes, concentration ___

Analytical Method:
- ✓ Generator knowledge
- ___ EPA Approved--Method number: ___
- ___ Other (specify in comments)

QA/QC Method:
- ✓ Generator knowledge
- ___ EPA Approved
- ___ Other (specify in comments)

NOTE: Concentrations of N-Nitrosodiethylamine at or above one percent (1%) must be analyzed by EPA approved methods.

COMMENTS: ___

Signature: [signature] Date: 1-5-94

Name: Harry S. Kemp Title: ERS PRP Representative

Page . . . : 1
Date 12/05/93 WAR Program . : R7004RPT
Time 17:45:34 User . . . WM0326LDS

Report: 7004 Version: 4A.00

This Report is intended for the use and benefit of Waste Management and its companies. No representation concerning significance of the reported data is made to any other person or entity.

Tracking Number : 4620271 Profile . . . . . : B04213
Site Name . . . : CWM SOUTHERN REGION LAB Generator Name . : ENTERPRISE RECOVERY SYSTEMS
Waste Description : SOLIDIFIED TANK BOTTOMS Date Received . : 11/29/93
Priority Code . : 10 Approved . . . . . : N

FINGERPRINT

Test Description	Ext. Procedure	L #	Test Result	Unit Desc.	Date Analyzed	Lab Tech
INCIDENTAL ODOR		01	NONE		11/29/93	JCF
LAYERS		01	1		11/29/93	JCF
PERCENT FREE LIQUIDS		01	0	%	11/29/93	JCF
COLOR		01	BROWN		11/29/93	JCF
PHYSICAL STATE		01	SOLID		11/29/93	JCF
H2O SOLUBILITY		01	INSOLUBLE SINKS		11/29/93	JCF
CYANIDE SCREEN		01	NEGATIVE		11/29/93	JCF
OXIDIZER SCREEN		01	NEGATIVE		11/29/93	JCF
FLAM. POTENTIAL		01	NEGATIVE		11/29/93	JCF
SULFIDE SCREEN		01	NEGATIVE		11/29/93	JCF
RADIATION SCREEN		01	EQUALS BACKGROUND		11/29/93	JCF
tackiness screen		01	NON		11/29/93	JCF
DENSITY		01	1.5192	GM/ML	12/02/93	FNA
pH BY PAPER		01	9	STND UNT	11/29/93	JCF
FRIABLE?		01	YES		11/29/93	JCF
PARTICLE SIZE OVER 1/8 INCH?		01	YES		11/29/93	JCF
SAMPLE CONTAINER MATERIAL		01	QUART GLASS JAR		11/29/93	JCF
BOX NUMBER		01	3361.06		11/29/93	JCF
H2O REACTIVITY		01	NO REACTION		11/29/93	JCF

PCBS

Test Description	Ext. Procedure	L #	Test Result	Unit Desc.	Date Analyzed	Lab Tech
AROCLOR 1016	PCBS	01	< 37	PPM	11/29/93	WTR
AROCLOR 1221	PCBS	01	< 37	PPM	11/29/93	WTR
AROCLOR 1232	PCBS	01	< 37	PPM	11/29/93	WTR
AROCLOR 1242	PCBS	01	< 37	PPM	11/29/93	WTR
AROCLOR 1248	PCBS	01	< 37	PPM	11/29/93	WTR
AROCLOR 1254	PCBS	01	< 37	PPM	11/29/93	WTR
AROCLOR 1260	PCBS	01	< 37	PPM	11/29/93	WTR

SPECTROSCOPY

Test Description	Ext. Procedure	L #	Test Result	Unit Desc.	Date Analyzed	Lab Tech
SILVER TOTAL		01	< 4	PPM	11/30/93	REC

Date 12/05/93 WAR Program . : R7004RPT
Time 17:45:34 User . . : WM0126L09

Report: 7004 Version: 4A.00

Tracking Number : 4620273 Profile . . . . . : B04213
Site Name . . . : CWM SOUTHERN REGION LAB Generator Name . : ENTERPRISE RECOVERY SYSTEMS
Waste Description : SOLIDIFIED TANK BOTTOMS Date Received . : 11/29/93
Priority Code . : 10 Approved . . . . : N

SPECTROSCOPY

Test Description	Ext. Procedure	L #		Test Result	Unit Desc.	Date Analyzed	Lab Tech
ARSENIC - TOTAL		01	<	35	PPM	11/30/93	REC
BARIUM - TOTAL		01		4306	PPM	11/30/93	REC
BERYLLIUM - TOTAL		01	<	12	PPM	11/30/93	REC
CADMIUM - TOTAL		01		24.1	PPM	11/30/93	REC
CHROMIUM - TOTAL		01		140	PPM	11/30/93	REC
MERCURY - TOTAL		01		1.166	PPM	11/30/93	REC
POTASSIUM - TOTAL		01		2492	PPM	11/30/93	REC
SODIUM - TOTAL		01		4920	PPM	11/30/93	REC
NICKEL - TOTAL		01		92.1	PPM	11/30/93	REC
LEAD - TOTAL		01		191	PPM	11/30/93	REC
ANTIMONY - TOTAL		01		70.9	PPM	11/30/93	REC
THALLIUM - TOTAL		01		38.9	PPM	11/30/93	REC
VANADIUM - TOTAL		01		144	PPM	11/30/93	REC
EXTRACT P.H.		01		8.91	STND UNT	12/04/93	SLP

WET CHEMISTRY

Test Description	Ext. Procedure	L #		Test Result	Unit Desc.	Date Analyzed	Lab Tech
HEATING VALUE		01		2790	BTU/LB	12/02/93	PNA
SULFUR, AS S (TOTAL)	CWM 92-40	01		0.37	%	12/02/93	PNA
ASH CONTENT, ON IGNITION	CWM 92-09	01		68.8	%	12/02/93	PNA
TOTAL ORGANIC CONTENT		01		21	%	12/02/93	PNA
BROMINE		01	<	0.1	%	12/02/93	PNA
FLUORINE		01	<	0.1	%	12/02/93	PNA
CHLORINE		01		1.6	%	12/02/93	PNA
SCRUB ACIDITY		01		0.03		12/02/93	PNA
WATER CONTENT	ASTM E203	01		10.5	%	12/02/93	PNA

TCLP - RESULTS

Test Description	Ext. Procedure	L #		Test Result	Unit Desc.	Date Analyzed	Lab Tech
SILVER - TCLP		01	<	0.051	PPM	12/04/93	SLP
BARIUM - TCLP		01		0.791	PPM	12/04/93	SLP
[illegible]IUM - TCLP		01	<	0.033	PPM	12/04/93	SLP
CHROMIUM - TCLP		01	<	0.042	PPM	12/04/93	SLP
MERCURY - TCLP		01	<	0.0003	PPM	12/05/93	SLP
LEAD - TCLP		01	<	0.160	PPM	12/04/93	SLP
SELENIUM - TCLP		01	<	0.11	PPM	12/04/93	SLP

APPENDIX C-4

TANK FARM CONCRETE SAMPLE ANALYSIS

ENVIRONMENTAL TESTING & CONSULTING, INC.
2924 Walnut Grove Road • Memphis, TN 38111 • (901) 327-2750 • FAX (901) 327-6331
Founded 1972

Large containment Area "TP-1"

December 28, 1993

Mr. Mike Estes
Rust Remedial Services, Inc.
Div. of Chemical Waste Mgmt.
Route 5, Cayce Road
Byhalia, MS 38611

ETC Order # 9312669
Project Description Enterprise Recovery

The above referenced project has been analyzed per your instructions. The analyses were performed in our laboratory in accordance with Standard Methods 17th Edition, The Solid Waste Manual SW-846, EPA Methods for the Analysis of Water and Wastes and/or 40 CFR part 136. The results are shown on the attached analysis sheet(s).

Please do not hesitate to contact our office if you have any questions.

Sincerely,

Randall H. Thomas
Vice-President
General Manager

jw

Attachment

30 items tested

ENVIRONMENTAL TESTING & CONSULTING, INC.
Memphis, TN
INORGANIC ANALYSIS DATA SHEET

Client Name Rust Remedial Services, Inc. Project # 531490

Site ID Enterprise Recovery

Date Arrived 12/21/93

ETC Order Number 9312669

ETC Lab ID 9312669-01 Matrix :SOLID

Sample ID: TP-1 Sample Date :12/21/93

TEST 8	RESULT	UNITS	DETECTION LIMIT	TIME ANALYZED	DATE ANALYZED	BY	METHO
Arsenic - TCLP	<0.50	mg/L	0.50	1030	12/27/93	MK	6010A
Barium - TCLP	0.292	mg/L	0.02	1030	12/27/93	MK	6010A
Cadmium - TCLP	<0.04	mg/L	0.04	1030	12/27/93	MK	6010A
Chromium - TCLP	<0.07	mg/L	0.07	1030	12/27/93	MK	6010A
Lead - TCLP	<0.45	mg/L	0.45	1030	12/27/93	MK	6010A
Mercury - TCLP	<0.001	mg/L	0.001	0930	12/23/93	JF	7470
Selenium - TCLP	<0.75	mg/L	0.75	1030	12/27/93	MK	6010A
Silver - TCLP	<0.07	mg/L	0.07	1030	12/27/93	MK	6010A
TCLP Extraction Date	12/22/93	Leachate				TL	1311

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP VOLATILE COMPOUNDS

CLIENT NAME : RUST REMEDIAL SERVICES, INC.
PROJECT # : 531490
DATE ANALYZED : 12/22-23/93
ANALYST : LS

SITE ID : ENTERPRISE RECOVERY
SAMPLE ID : TP-1
SAMPLE DATE : 12/21/93
DATE ARRIVED : 12/21/93
MATRIX : TCLP LEACHATE

FILE NAME : 9312-669.00C
SAMPLE # : 9312-669
METHOD (SW-846): 8240

DATE OF TCLP EXTRACTION : 12/22/93
MATRIX CLASSIFICATION : SOLID

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
Benzene	ND	0.050	0.50
Carbon Tetrachloride	ND	0.050	0.50
Chlorobenzene	ND	0.050	100
Chloroform	0.11	0.500	6.00
1,4-Dichlorobenzene	ND	0.050	7.50
1,2-Dichloroethane	ND	0.050	0.50
1,1-Dichloroethene	ND	0.050	0.70
Methyl Ethyl Ketone	ND	0.500	200
Tetrachloroethene	0.54	0.050	0.70
Trichloroethene	1.82	0.050	0.50
Vinyl Chloride	ND	0.050	0.20

11

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
1,2-Dichloroethane-d4	50.0	50.0	100	76-114
Toluene-d8	49.9	50.0	100	88-110
4-Bromofluorobenzene	47.4	50.0	95	86-115

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP BASE NEUTRALS AND ACID EXTRACTABLES

CLIENT NAME : RUST REMEDIAL SERVICES, INC.
PROJECT # : 531470
DATE EXTRACTED: 12/22/93
DATE ANALYZED : 12/22/93
ANALYST : MR

SITE ID : ENTERPRISE RECOVERY
SAMPLE ID : TP-1
SAMPLE DATE : 12/21/93
DATE ARRIVED : 12/21/93
MATRIX : TCLP LEACHATE
FILE NAME : 9312-669.DOC
SAMPLE # : 9312-669
METHOD (SW-846): 8270

DATE OF TCLP EXTRACTION : 12/22/93
MATRIX CLASSIFICATION : SOLID

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
2,4-Dinitrotoluene	ND	0.05	0.13
Hexachlorobenzene	ND	0.05	0.13
Hexachlorobutadiene	ND	0.05	0.50
Hexachloroethane	ND	0.05	3.00
2-Methylphenol	0.31	0.05	200
3&4-Methylphenol	0.20	0.05	200
Nitrobenzene	ND	0.05	2.00
Pentachlorophenol	ND	0.05	100
2,4,5-Trichlorophenol	ND	0.05	400
2,4,6-Trichlorophenol	ND	0.05	2.00
Pyridine	ND	0.05	5.00

UNITS:ng/ul

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
Nitrobenzene-d5	70.2	100	70	35-114
2-Fluorobiphenyl	62.2	100	62	43-116
4-Terphenyl-d14	64.1	100	64	33-141
Phenol-d6	91.0	200	45	10-94
2,4,6-Tribromophenol	237	200	118	10-123
2-Fluorophenol	117	200	59	21-100

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED

LABORATORY MANAGER

Date Printed 01/11/94 Chemical Waste Management, Inc. ERS B04211

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: RT 5 BOX 287 Billing Address: (_) Same RUST REMEDIAL SERVICES

100 GLENBOROUGH STE 500

BYHALIA MS 38611

3. Technical Contact/Phone: JEFF BENNETT 901/372-7962 HOUSTON TX 77067

4. Alternate Contact/Phone: MIKE ESTES 601/851-7367 Billing Contact/Phone:

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF LIQUID, SOLID, ORGANIC, & AQUEOUS WASTE STREAMS

6. Waste Name: DEMOLITION DEBRIS OF CONCRETE TANK PAD/BERM

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D040

State Waste Codes:

8. Physical State @ 70F: A. Solid(X) Liquid(_) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 0 to 0%

9A. pH: Range _____ or Not applicable (X) B. Strong Odor (_);describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
CONCRETE	80 to 100	%
SOIL AND DEBRIS	0 to 20	%
TRICHLOROETHYLENE	0 to 1.82	PPM
	to	
	to	
	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	120.000000	

12. OTHER: PCBs if yes, concentration N _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (X) Bulk Liquid (_) Drum (_) Type/Size: ROLLOFF Other

15. ANTICIPATED ANNUAL VOLUME: 175 Units: TONS Shipping Frequency: YEAR

SAMPLING INFORMATION Sample Tracking Number: 4621048

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): CONCRETE PAD/BERM

Date Sampled: 1/03/94 Sampler's Name/Company: TOM DUNN/RICHARD DAVIS RUST REMEDIAL SERVICES

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile B04211 HARRY S. KEMP ERS PRP REPRESENTATIVE

Signature Name and Title Date

Date Printed 01/11/94

RE 94211

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:

___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D040		X				E
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ 0 to 30 PPM Type TOTAL

Optional Phenolics: _ None to _____ _____

24. Identify the waste color BROWN, DOT physical state Solid,

and physical appearance ROCK, DIRT-LIKE

Date Printed 01/11/94

BME 804211

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION	26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
TOTAL	RANGE
Beryllium as Be _____ ppm	A. Heat Value (Btu/lb): ____-____
Potassium as K _____ ppm	B. Water: ____
Sodium as Na _____ ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br _____ %	D. Ash: ____ %
Chlorine as Cl _____ %	E. Settleable solids: ____ %
Fluorine as F _____ %	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S _____ %	G. Is this waste a pumpable liquid? Yes _ No _
	H. Can this waste be heated to improve flow? Yes _ No _
	I. Is this waste soluble in water? Yes _ No _
	J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE SOLID, N.O.S.

and Additional Description if required: (D040)

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I.D. NA3077 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code ___ Bulk code 240

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required CLASS 9

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

THIS IS A CERCLA WASTE.

DOT SPECIAL PROVISIONS: B54

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 01/11/94

BE 804211

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni							134 mg/l		
Thallium as Tl							130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

Date Printed 01/11/94

BMB 804211

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 01/11/94

EME 105211

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: 01RLDF
Sales Office. . . : MSE
CWM Location Orig.: SRL
Profile Expires . : 1/10/96
Approved. . . . . : 1/10/94
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4621046

Fuels Approval.: _
Pumpable Liquid Exact: __ % OR Range: __ - __ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: __ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
03 TYVEK 12 CONTAINS ORGANICS (PNA)
05 AVOID SKIN CONTACT 07 BULK SOLID

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : ____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 1 Health: 2

Percent Taxable: 100.0 No. of Labels. . .:
Tranship Dest .: __ Download Generator: 1083729
Material Class.: 1 DCS Generator #...: 6955472631
Treatment Codes: D81 __ __ __ __ __
Process Codes .: 60 __ __ __ __ __ __ __ __ __ __
Schedule Category : DLFB
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : __ Gas Evolution : __ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration ____ Boiling Point F __
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	__	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST REMEDIAL SERVICES	N/A	I	_	__	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FOPT	PSC	BULK SOLID FOR DIRECT LANDFILL
PSC	THIS IS A CERCLA WASTE.	PSC	(GEN) APPROVED FOR EME, LCM

SUPPLEMENTAL FIELDS

Field	Value
APBLL	MOU
APFEE	01

Date Printed 1/11/94

Profile Change History

EHE B04211

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
ADDED TRICHLOROETHYLENE 0-1.82 PPM TO CHEM COMP.	1/11/94	WM0326LAS
Entire profile copied from profile SRL/B04211.	1/11/94	WM0326LAS
RECEIVED VERBAL REQUEST FROM TODD HOLLENSHEAD	1/11/94	WM0326MLS
ASKING FOR THE ANTICIPATED ANNUAL VOLUME BE INCREA	1/11/94	WM0326MLS
SED TO 175 TONS. APPROVED 1/11/94 MLS.	1/11/94	WM0326MLS
Change Log copied from profile SRL/B04211.	1/11/94	WM0326MLS

BO 4211

SORBENT CERTIFICATION

This letter certifies that waste streams shipped from this facility destined for landfill disposal (or stabilization and landfill disposal) do not contain liquids that are absorbed using "biodegradable" sorbents.

The sorbents used, if any, are listed as "allowable sorbent materials" in 40 CFR 264.314(e)(1) and 265.314(f)(1). (Alternatively, absorbents used that do not appear in the referenced list may be tested to determine its suitability prior to its use as referenced in the rule @ 40 CFR 264.314 and 265.314. These results must be submitted as part of the profile.)

Generator Name Enterprise Recovery Systems Site PRP Group

Location Bybalia, MS

I hereby certify that this information is true and should be submitted as an attachment to the applicable waste profile sheet(s).

Authorized Signature

Return this form to: ERS PRP Rep.

CHEMICAL WASTE MANAGEMENT, INC.
LAKE CHARLES FACILITY
7170 John Brannon Road
Carlyss, LA 70663

Phone: (318) 583-2169
Fax: (318) 583-2858 or 4614

APPENDIX C-5

DRUMMED MATERAIL SAMPLE ANALYSIS/PROFILE

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619707 Priority : 30
Profile # : AN1804 Date Received: 11/02/93
Effective Date: 11/11/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : CORROSIVE LIQUID

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Repackage
FOR INCINERATION AT A CERCLA APPROVED OUTLET.

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS DRUM LIQUID TO BE REPACKED FOR INCINERATION AT A CERCLA APPROVED OUTLET. DRUM IS 1/3 FULL, THEREFORE, ONLY SOLIDIFICATION IS NEEDED. PRICE AT $350/55 DRUM.

(3) Site and Contracting Conditions

3 gls

c) Analytical Requirements for Each Load
Fingerprint
BTU/IC

d) Decision Expiration Date 11/11/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) TERESA FISHER Date 11/11/93

Date Printed 11/16/93 Chemical Waste Management, Inc. EME AN1804

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: RUST-REMEDIAL SVCS-ENCLEAN
(_) Same
100 GLENBOROUGH
SUITE 500
BYHALIA MS 38611 HOUSTON TX 77067

3. Technical Contact/Phone: GEORGE POWDER 601/851-7367

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: CORROSIVE LIQUID

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D002 D039

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 75 to 100%

9A. pH: Range 12.5 to 14.0 or Not applicable (_) B. Strong Odor (_);describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (X) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
CORROSIVE LIQUID	100 to 100	%
	to	
	to	
	to	
	to	
	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	100.000000	

12. OTHER: PCBs if yes, concentration N ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other 85 GALLON DRUMS

15. ANTICIPATED ANNUAL VOLUME: 5 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4619707

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile AN1804 GEORGE W. POWDER RCRA SUBCOMMITTEE CHAIRMAN
Signature Name and Title Date

F Date Printed 11/16/93 EME AN1804

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D002	Acids, alkaline, other based on 40 CFR 261.22, non-class 1				DEACT	A
2	D039		X				E
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color BROWN, DOT physical state Liquid, and physical appearance LOW VISCOSITY, OPAQUE

F Date Printed 11/16/93 EME AN1804

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be		ppm	A. Heat Value (Btu/lb): 1- 400
Potassium as K		ppm	B. Water:
Sodium as Na		ppm	C. Viscosity (cps): @ F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: %
Chlorine as Cl	< 1	%	E. Settleable solids: %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg):
Sulfur as S	< 1	%	G. Is this waste a pumpable liquid? Yes _ No _
			H. Can this waste be heated to improve flow? Yes _ No _
			I. Is this waste soluble in water? Yes _ No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

RQ, Waste, Caustic Alkali Liq.

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, WASTE CAUSTIC, ALKALI LIQUIDS, N.O.S.

(D002, D039)

and Additional Description if required: (CONTAINS SODIUM HYDROXIDE)

C. DOT Regulations: United Nations Hazard Class: 8 Corrosive Material I.D. UN1719 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 203 Bulk code

F. Special Provisions

G. Labels Required CORROSIVE

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

THIS IS A CERCLA WASTE.

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 11/16/93

EME AN1804

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004	0.021 ppm		500 mg/l		
Barium as Ba	X	100.0 mg/l		D005	<0.20 ppm				
Cadmium as Cd	X	1.0 mg/l		D006	<0.40 ppm		100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007	<0.70 ppm				
Lead as Pb	X	5.0 mg/l		D008	0.09 ppm		500 mg/l		
Mercury as Hg	X	.2 mg/l		D009	<0.001 ppm		20 mg/l		
Selenium as Se	X	1.0 mg/l		D010	0.002 ppm		100 mg/l		
Silver as Ag	X	5.0 mg/l		D011	0.06 ppm				
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039	1.50 ppm	
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/16/93 EME AN1804

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: NEUTRA
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/11/95
Approved. . . . . : 11/11/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619707

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK 12 CONTAINS ORGANICS (PNA)
07 STRONG ALKALI 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 3 Dermal: 4 Oral: 4 Flammable: 1 Health: 3

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: ___ Download Generator: T083729
Material Class.: 0 DCS Generator #...: 6955472631
Treatment Codes: T47 ___ ___ ___ ___ ___
Process Codes .: 18 ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : ORPD
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration _____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST-REMEDIAL SVCS-ENCLEAN	N/A	I	Y	HOU	11/11/95	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT/BTU IC	PSC	REPACK DRUM FOR INCINERATION
PSC	DRUM IS 1/3 FULL; THEREFORE, ONLY SOLIDIFICATION	PSC	IS NEEDED. SHIP TO A CERCLA APPROVED OUTLET
PSC	BTU/LB=<400 Cl2=0.75%	PSC	PRINT WORKSET FOR ADDITIONAL PSC COMMENTS
PSC	DEACT REVIEW COMPLETED: NONE	PSC	THIS IS A CERCLA WASTE
PSC	(GEN) APPROVED FOR EME	___	

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	05

Date Printed 11/16/93

Profile Change History

EME AN1804

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
Entire profile copied from profile SRL/AN1804.	11/15/93	UM0326LAS

UNDERLYING HAZARDOUS CONSTITUENT FORM

Generator Name: ENTERPRISE RECOVERY SYSTEMS PRP Group

Manifest Doc. No.:

CWM Profile No.: A N 1 8 0 4

State Manifest No.:

If the specified treatment technology of "Deactivation, and meet F039" is identified, then each underlying hazardous constituent present in the waste at a level above the F039 constituent specific treatment standard at the point of generation of the hazardous waste must be indicated. Write the letter (A, B1, B2, B3, or C, which corresponds to the letter on form CWM-2001A) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7 and LAC33.V Chapter 22.

Constituent	How Must This Constituent Be Managed?	WW	NWW	Constituent	How Must This Constituent Be Managed?	WW	NWW
Acetone		0.28	160	Butyl benzyl phthalate		0.017	7.9
Acenaphthalene		0.059	3.4	2-sec-Butyl-4,6-dinitrophenol		0.066	2.5
Acenaphthene		0.059	4.0	Carbon tetrachloride		0.057	5.6
Acetonitrile		0.17	NA	Carbon disulfide		0.014	NA
Acetophenone		0.010	9.7	Chlordane		0.0033	0.15
2-Acetylaminofluorene		0.059	140	p-Chloroaniline		0.46	16
Acrolein		0.29	NA	Chlorobenzene		0.057	5.7
Acrylonitrile		0.24	84	Chlorobenzilate		0.10	NA
Aldrin		0.021	0.066	2-chloro-1,3-butadiene		0.057	NA
4-Aminobiphenyl		0.13	NA	Chlorodibromomethane		0.057	15
Aniline		0.810	14	Chloroethane		0.27	6.0
Anthracene		0.059	4.0	bis-(2-Chloroethoxy)methane		0.036	7.2
Aramite		0.36	NA	bis-(2-Chloroethyl) ether		0.033	7.2
Aroclor 1016		0.013	0.92	Chloroform		0.046	5.6
Aroclor 1221		0.014	0.92	bis-(2-Chloroisopropyl) ether		0.055	7.2
Aroclor 1232		0.013	0.92	p-Chloro-m-cresol		0.018	14
Aroclor 1242		0.017	0.92	Chloromethane (methyl chloride)		0.19	33
Aroclor 1248		0.013	0.92	2-Chloronaphthalene		0.055	5.6
Aroclor 1254		0.014	1.8	2-Chlorophenol		0.044	5.7
Aroclor 1260		0.014	1.8	3-Chloropropylene		0.036	28
alpha-BHC		0.00014	0.066	Chrysene		0.059	8.2
beta-BHC		0.00014	0.066	o-Cresol		0.11	5.6
delta-BHC		0.023	0.066	Cresol (m- and p-isomers)		0.77	3.2
gamma-BHC		0.0017	0.066	Cyclohexanone		0.36	NA
Benzene		0.140	36	1,2-Dibromo-3-Chloropropane		0.11	15
Benzo (a) anthracene		0.059	8.2	1,2-Dibromoethane (Ethylene dibromide)		0.028	15
Benzo (b) flouranthene		0.055	3.4	Dibromomethane		0.11	15
Benzo (k) flouranthene		0.059	5.4	2,4-Dichlorophenoxyacetic acid (2,4-D)		0.72	10
Benzo (g,h,i) perylene		0.0055	1.5	o,p-DDD		0.023	0.087
Benzo (a) pyrene		0.061	8.2	p,p-DDD		0.023	0.087
Bromodichloromethane		0.35	15	o,p-DDE		0.031	0.087
Bromoform		0.63	15	p,p-DDE		0.031	0.087
Bromomethane (methyl bromide)		0.11	15	o,p-DDT		0.0039	0.087
4-Bromophenyl phenyl ether		0.055	15	p,p-DDT		0.0039	0.087
n-Butanol (n-butyl alcohol)		5.6	2.6	Dibenzo (a,h) anthracene		0.055	8.2
Dibenzo (a,e) pyrene		0.061	NA	Ethyl methacrylate		0.14	160
m-Dichlorobenzene		0.036	6.2	Ethylene oxide		0.12	NA

Constituent	[illegible]	WW	NWW	Constituent	[illegible]	WW	NWW
o-Dichlorobenzene		0.088	6.2	Pamphur		0.017	15
[illegible]chlorobenzene		0.090	6.2	Fluoranthene		0.068	8.2
Dichlorodifluoromethane		0.23	7.2	Fluorene		0.059	4.0
1,1-Dichloroethane		0.059	7.2	Fluorotrichloromethane		0.020	33
1,2-Dichloroethane		0.21	7.2	Heptachlor		0.0012	0.066
1,1-Dichloroethylene		0.025	33	Heptachlor epoxide		0.016	0.066
trans-1,2-Dichloroethylene		0.054	33	Hexachlorobenzene		0.055	37
2,4-Dichlorophenol		0.044	14	Hexachlorobutadiene		0.055	28
2,6-Dichlorophenol		0.044	14	Hexachlorocyclopentadiene		0.057	3.6
1,2-Dichloropropane		0.85	18	Hexachlorodibenzo-furans		0.000063	0.001
cis-1,3-Dichloropropene		0.036	18	Hexachlorodibenzo-p-dioxins		0.000063	0.001
trans-1,3-Dichloropropene		0.036	18	Hexachloroethane		0.055	28
Dieldrin		0.017	0.13	Hexachloropropene		0.035	28
Diethyl phthalate		0.20	28	Indeno (1,2,3-c,d) pyrene		0.0055	8.2
2,4-Dimethyl phenol		0.036	14	Iodomethane		0.10	65
Dimethyl phthalate		0.047	28	Isobutanol		5.6	170
Di-n-butyl phthalate		0.057	28	Isodrin		0.021	0.066
1,4-Dinitrobenzene		0.32	2.3	Isosafrole		0.081	2.6
4,6-Dinitrocresol		0.28	160	Kepone		0.0011	0.13
2,4-Dinitrophenol		0.12	160	Methylacrylonitrile		0.24	84
2,4-Dinitrotoluene		0.32	140	Methanol		5.6	NA
[illegible]6-Dinitrotoluene		0.55	28	Methapyrilene		0.081	1.5
Di-n-octyl phthalate		0.017	28	Methoxychlor		0.25	0.13
Di-n-propylnitrosoamine		0.40	14	3-Methylcholanthrene		0.0055	15
Diphenyl amine		0.52	NA	4,4-Methylene-bis-(2-chloroaniline)		0.50	35
1,2-Diphenyl hydrazine		0.087	NA	Methylene chloride		0.089	33
Diphenylnitrosoamine		0.40	NA	Methyl ethyl ketone		0.28	36
1,4-Dioxane		0.12	170	Methyl isobutyl ketone		0.14	33
Disulfoton		0.017	6.2	Methyl methacrylate		0.14	160
Endosulfan I		0.023	0.066	Methyl methanesulfonate		0.018	NA
Endosulfan II		0.029	0.13	Methyl parathion		0.014	4.6
Endosulfan sulfate		0.029	0.13	Naphthalene		0.059	3.1
Endrin		0.0028	0.13	2-Naphthylamine		0.52	NA
Endrin aldehyde		0.025	0.13	p-Nitroaniline		0.028	28
Ethyl acetate		0.34	33	Nitrobenzene		0.068	14
Ethyl benzene		0.057	6.0	5-Nitro-o-toluidine		0.32	28
Ethyl cyanide		0.24	360	4-Nitrophenol		0.12	29
Ethyl ether		0.12	160	N-Nitrosodiethylamine		0.40	28
bis-(2-Ethylhexyl) phthalate		0.28	28	N-Nitrosodimethylamine		0.40	NA
N-Nitroso-di-n-butylamine		0.040	17	1,2,4-Trichlorobenzene		0.055	19
N-Nitrosomethylethylamine		0.040	2.3	1,1,1-Trichlorobenzene ethane		0.054	5.6
N-Nitrosomorpholine		0.040	2.3	1,1,2-Trichloroethane		0.054	5.6
N-Nitrosopiperidine		0.013	35	Trichloroethylene		0.054	5.6
N-Nitrosopyrrolidine		0.013	35	2,4,5-Trichlorophenol		0.18	37
Parathion		0.014	4.8	2,4,6-Trichlorophenol		0.035	37
Pentachlorobenzene		0.055	37	1,2,3-Trichloropropane		0.85	28

AN1804

Pollutant	TCLP Limit for Organics (mg/l)	Wastewater (mg/l)	Soil (mg/kg)	Pollutant	TCLP Limit for Organics (mg/l)	Wastewater (mg/l)	Soil (mg/kg)
Pentachlorodibenzo-furans		0.000063	0.001	1,1,1-Trichloro-1,2,2-trifluoroethane		0.057	28
Pentachlorodibenzo-p-dioxins		0.000063	0.001	Tris(2,3-dibromopropyl)phosphate		0.11	NA
Pentachloronitrobenzene		0.055	4.8	Vinyl chloride		0.27	33
Pentachlorophenol		0.089	7.4	Xylene(s)		0.32	28
Phenacetin		0.081	16	Cyanides (Total)		1.2	1.8
Phenanthrene		0.059	5.6	Cyanides (Amenable)		0.86	NA
Phenol		0.039	6.2	Fluoride		35	NA
Phorate		0.021	4.6	Sulfide		14	NA
Phthalic anhydride		0.069	NA	Antimony		1.9	0.23'
Picramide		0.093	1.3	Arsenic		1.4	5.0'
Pyrene		0.067	8.2	Barium		1.2	32'
Pyridine		0.014	16	Beryllium		0.82	NA
Safrole		0.081	22	Cadmium		0.20	0.060'
Silvex (2,4,5-TP)		0.72	7.9	Chromium		0.37	5.2'
2,4,5-T		0.72	7.9	Copper		1.3	NA
1,2,4,5-Tetrachlorobenzene		0.055	19	Lead		0.28	0.51'
Tetrachlorodibenzo-furans		0.000063	0.001	Mercury		0.15	0.025'
Tetrachlorodibenzo-p-dioxins		0.000063	0.001	Nickel		0.55	0.32'
1,1,1,2-Tetrachloroethane		0.057	42	Selenium		0.82	5.7'
1,1,2,2-Tetrachloroethane		0.057	42	Silver		0.29	0.072'
Tetrachloroethylene		0.056	5.6	Thallium		1.4	NA
2,3,4,6-Tetrachlorophenol		0.030	37	Vanadium		0.042	NA
Tetraethyl dithiopyrophosphate		0.080	28	Zinc		1.0	NA
Toxaphene		0.0095	1.3				

'These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract (268.41); all others measured through a total waste analysis (268.43).
Note: Wastewater units are mg/L, soil/wastewater are mg/kg

"I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information."

Signature: Title: ERS PRP Rep. Date: 11-10-93

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP METALS

Client Name : Rust Remedial Services, Inc.
Site ID : Enterprise Recovery Systems

Sample ID : AN1804-02
Sample Date : 10/21/93
Date Arrived : 10/21/93

File Name : 9310-584
Sample ID : 9310-584-3

Date of TCLP Extraction : 10/21/93, Leachate
Matrix Classification : Soil

Metals	Results (ppm)[1]	Regulatory Level (ppm)	Method (SW-846)	Date Analyzed	By
Arsenic	0.021	5.0	7061A	10/27/93	SH
Barium	<0.20	100.0	6010A	10/27/93	JF
Cadmium	<0.40	1.0	6010A	10/27/93	JF
Chromium	<0.70	5.0	6010A	10/27/93	JF
Lead	0.09	5.0	7420	10/26/93	JF
Mercury	<0.001	0.2	7470	10/26/93	SH
Selenium	0.002	1.0	7741	10/26/93	SH
Silver	0.06	5.0	7760A	10/27/93	JF

Detection Limits (ppm)

Arsenic	0.002
Barium	0.20
Cadmium	0.40
Chromium	0.70
Lead	0.05
Mercury	0.001
Selenium	0.002
Silver	0.01

1 - Sample results not factored for Matrix Recovery Bias per Federal Register November 24, 1992.

Randall H. Thomas
Vice President

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP VOLATILE COMPOUNDS

CLIENT NAME : RUST REMEDIAL SERVICES, INC.
PROJECT # : 531490
DATE ANALYZED : 10/25/93
ANALYST : LS

SITE ID : ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : AN1804-02
SAMPLE DATE : 10/21/93
FILE NAME : 9310-584.DOC
DATE ARRIVED : 10/21/93
SAMPLE # : 9310-584-3
METHOD (SW-846): 8240
MATRIX : LEACHATE

DATE OF TCLP EXTRACTION : 10/22/93
MATRIX CLASSIFICATION : SOIL

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
Benzene	ND	0.005	0.50
Carbon Tetrachloride	ND	0.005	0.50
Chlorobenzene	ND	0.005	100
Chloroform	ND	0.050	6.00
1,4-Dichlorobenzene	ND	0.005	7.50
1,2-Dichloroethane	ND	0.005	0.50
1,1-Dichloroethene	ND	0.005	0.70
Methyl Ethyl Ketone	ND	0.050	200
Tetrachloroethene	1.50	0.005	0.70
Trichloroethene	0.022	0.005	0.50
Vinyl Chloride	ND	0.005	0.20

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
1,2-Dichloroethane-d4	52.8	50.0	106	76-114
Toluene-d8	52.2	50.0	104	88-110
4-Bromofluorobenzene	48.9	50.0	98	86-115

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED
j - ESTIMATED VALUE. RESULT EXCEEDS LINEAR CALIBRATION RANNGE.

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP BASE NEUTRALS AND ACID EXTRACTABLES

CLIENT NAME : _RUST REMEDIAL SERVICES, INC.
PROJECT # : _531490____
DATE EXTRACTED: _10/22/93
DATE ANALYZED : _10/26/93
ANALYST : _DC/MR__

SITE ID : _ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : _AN1804-02_____
SAMPLE DATE : _10/21/93_____
DATE ARRIVED : _10/21/93_____
MATRIX : _FILTRATE

FILE NAME : _9310-584.DOC
SAMPLE # : _9310-584-3__

METHOD (SW-846): _8270

DATE OF TCLP EXTRACTION : _10/22/93_
MATRIX CLASSIFICATION : _SOIL

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
2,4-Dinitrotoluene	ND	0.05	0.13
Hexachlorobenzene	ND	0.05	0.13
Hexachlorobutadiene	ND	0.05	0.50
Hexachloroethane	ND	0.05	3.00
2-Methylphenol	ND	0.05	200
3&4-Methylphenol	ND	0.05	200
Nitrobenzene	ND	0.05	2.00
Pentachlorophenol	ND	0.05	100
2,4,5-Trichlorophenol	ND	0.05	400
2,4,6-Trichlorophenol	ND	0.05	2.00
Pyridine	ND	0.05	5.00

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
Nitrobenzene-d5	84.2	100	84	35-114
2-Fluorobiphenyl	75.8	100	76	43-116
4-Terphenyl-d14	75.5	100	76	33-141
Phenol-d6	88.7	200	44	10-94
2,4,6-Tribromophenol	126	200	63	10-123
2-Fluorophenol	117	200	58	21-100

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED

LABORATORY MANAGER

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619665 Priority : 30
Profile # : BK3540 Date Received: 11/01/93
Effective Date: 11/12/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : NEUTRALIZATION CORROSIVE FLAMM

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS DRUM LIQUID FOR STORE AND TRANSSHIP TO AN APPROVED CERCLA FUEL BLENDING OUTLET.

(3) Site and Contracting Conditions
THIS IS A CERCLA WASTE.

c) Analytical Requirements for Each Load
Fingerprint
Compatibility Check
BTU/IC

d) Decision Expiration Date 11/12/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) CYNTHIA GUILLORY Date 11/12/93

F Date Printed 11/16/93 Chemical Waste Management, Inc. EME BK3540

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST-REMEDIAL SVCS-ENCLEAN

100 GLENBOROUGH

BYHALIA MS 38611 SUITE 500

3. Technical Contact/Phone: GEORGE PONDER 601/851-7367 HOUSTON TX 77067

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC, AND AQUEOUS WASTE STREAMS

6. Waste Name: NEUTRALIZATION CORROSIVE FLAMMABLE LIQUID

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D001 D002 D004 D007 D039 D040

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 75 to 100%

9A. pH: Range to 2.0 or Not applicable (_) B. Strong Odor (_);describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (X) >= 200F (_) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
(None listed)	to	
	to	
	to	
	to	
	to	
	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	100.000000	

12. OTHER: PCBs if yes, concentration N ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration ppm. NESHAP (_) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other

15. ANTICIPATED ANNUAL VOLUME: 20 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4619665

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature GOEROGE W. POWDER CHMM RCRA SUB COMM. ERS SITE Date

Name and Title

F Date Printed 11/16/93 EME BK3540

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D002	ACIDS, PH <= 2.0				DEACT	A
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:
A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color _____, DOT physical state Liquid,

and physical appearance LIQUID

F Date Printed 11/16/93 EME BK3540

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION		26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL	RANGE
Beryllium as Be	ppm	A. Heat Value (Btu/lb): ____-____
Potassium as K	ppm	B. Water: ____
Sodium as Na	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	%	D. Ash: ____ %
Chlorine as Cl	%	E. Settleable solids: ____ %
Fluorine as F	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	%	G. Is this waste a pumpable liquid? Yes _ No _
		H. Can this waste be heated to improve flow? Yes _ No _
		I. Is this waste soluble in water? Yes _ No _
		J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, WASTE CORROSIVE LIQUID, N.O.S.

and Additional Description if required: (D002) (CONTAINS)

C. DOT Regulations: United Nations Hazard Class: 8 Corrosive Material I.D. UN1760 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 203 Bulk code 241

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required CORROSIVE

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

F Date Printed 11/16/93 EME BK3540

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

F Date Printed 11/16/93 EME BK3540

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/16/93 EME BK3540

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: NEUTRA
Sales Office. . . :
CWM Location Orig.: SRL
Profile Expires . : 11/12/95
Approved. . . . . : 11/12/93
Signed Profile Present: N Change Pending: _ Waste Status: A
Site (DCS) Status: P PENDING ADEM INFO
Prof. Tracking No: 4619665

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK
06 STRONG ACID 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 3 Dermal: 3 Oral: 3 Flammable: 1 Health: 3

Percent Taxable: 3.0 No. of Labels. . .:
Tranship Dest .: ___ Download Generator: T083729
Material Class.: I DCS Generator #...: 6955472631
Treatment Codes: T31 S01 ___ ___ ___ ___
Process Codes .: 50 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTD
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration ___ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST-REMEDIAL SVCS-ENCLEAN	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT/ACIDITY TC/LDR/RQ4	PSC	(LCH) NEUTRALIZE TO DEACTIVATE
PSC	(EME) DRUM D002 ACID (STORE AND TRANSSHIP TO LCH)	PSC	(GEN) APPROVED FOR

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	03

Date Printed 11/16/93

Profile Change History

EME BK3540

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
This profile has no recorded changes.		

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP METALS

Client Name : Rust Remedial Services, Inc.
Site ID : Enterprise Recovery Systems

Sample ID : BK3540-02
Sample Date : 10/21/93
Date Arrived : 10/21/93

File Name : 9310-584
Sample ID : 9310-584-1

Date of TCLP Extraction : 10/21/93, Filtrate
Matrix Classification : Liquid

Metals	Results (ppm)[1]	Regulatory Level (ppm)	Method (SW-846)	Date Analyzed	By
Arsenic	7.23	5.0	7061A	10/27/93	SH
Barium	0.144	100.0	6010A	10/26/93	JF
Cadmium	0.604	1.0	6010A	10/26/93	JF
Chromium	5.14	5.0	6010A	10/26/93	JF
Lead	<1.25	5.0	6010A	10/26/93	JF
Mercury	<0.02	0.2	7470	10/26/93	SH
Selenium	<0.10	1.0	7741	10/26/93	SH
Silver	<0.175	5.0	6010A	10/26/93	JF

Detection Limits (ppm)

Arsenic	0.10
Barium	0.05
Cadmium	0.10
Chromium	0.175
Lead	1.25
Mercury	0.02
Selenium	0.10
Silver	0.175

1 - Sample results not factored for Matrix Recovery Bias per Federal Register November 24, 1992.

Randall H. Thomas
Vice President

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP VOLATILE COMPOUNDS

CLIENT NAME : RUST REMEDIAL SERVICES, INC.
PROJECT # : 531490
DATE ANALYZED : 10/25/93
ANALYST : LS

SITE ID : ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : BK3540-02
SAMPLE DATE : 10/21/93
FILE NAME : 9310-584.DOC
DATE ARRIVED : 10/21/93
SAMPLE # : 9310-584-1
METHOD (SW-846): 8240
MATRIX : FILTRATE

DATE OF TCLP EXTRACTION : 10/22/93
MATRIX CLASSIFICATION : LIQUID

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
Benzene	ND	10	0.50
Carbon Tetrachloride	ND	10	0.50
Chlorobenzene	ND	10	100
Chloroform	ND	100	6.00
1,4-Dichlorobenzene	ND	10	7.50
1,2-Dichloroethane	ND	10	0.50
1,1-Dichloroethene	ND	10	0.70
Methyl Ethyl Ketone	ND	100	200
Tetrachloroethene	59.4	10	0.70
Trichloroethene	9.66j	10	0.50
Vinyl Chloride	ND	10	0.20

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
1,2-Dichloroethane-d4	53.8	50.0	108	76-114
Toluene-d8	52.1	50.0	104	88-110
4-Bromofluorobenzene	48.2	50.0	96	86-115

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED
j - ESTIMATED VALUE. RESULT BELOW PRACTICAL QUANTITATION LIMIT.

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP BASE NEUTRALS AND ACID EXTRACTABLES

CLIENT NAME : _RUST REMEDIAL SERVICES, INC.
PROJECT # : _531490____
DATE EXTRACTED: _10/22/93
DATE ANALYZED : _10/26/93
ANALYST : _DC/MR__

SITE ID : _ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : _BK3540-02_____
SAMPLE DATE : _10/21/93_____
DATE ARRIVED : _10/21/93_____
MATRIX : _FILTRATE

FILE NAME : _9310-584.DOC
SAMPLE # : _9310-584-1__
METHOD (SW-846): _8270

DATE OF TCLP EXTRACTION : _10/22/93_
MATRIX CLASSIFICATION : _LIQUID

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
2,4-Dinitrotoluene	ND	372	0.13
Hexachlorobenzene	ND	372	0.13
Hexachlorobutadiene	ND	372	0.50
Hexachloroethane	ND	372	3.00
2-Methylphenol	ND	372	200
3&4-Methylphenol	ND	372	200
Nitrobenzene	ND	372	2.00
Pentachlorophenol	ND	372	100
2,4,5-Trichlorophenol	ND	372	400
2,4,6-Trichlorophenol	ND	372	2.00
Pyridine	ND	372	5.00

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
Nitrobenzene-d5	85.9	100	86	35-114
2-Fluorobiphenyl	86.3	100	86	43-116
4-Terphenyl-d14	87.0	100	87	33-141
Phenol-d6	175	200	87	10-94
2,4,6-Tribromophenol	129	200	65	10-123
2-Fluorophenol	160	200	80	21-100

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED

LABORATORY MANAGER

UNDERLYING HAZARDOUS CONSTITUENT FORM

Arbor Name: ENTERPRISE RECOVERY SYSTEMS PRR Group

Manifest Doc. No.:

CWM Profile No.: BK3540

State Manifest No.:

If the specified treatment technology of "Deactivation, and meet F039" is identified, then each underlying hazardous constituent present in the waste at a level above the F039 constituent specific treatment standard at the point of generation of the hazardous waste must be indicated. Write the letter (A, B1, B2, B3, or C, which corresponds to the letter on form CWM-2001A) beside each constituent present, to properly describe how the constituent(s) must be managed under 40 CFR 268.7 and LAC33.V Chapter 22.

Constituent	Has Mgt Thru Constituent Been Identified?	WW	NWW	Constituent	Has Mgt Thru Constituent Been Identified?	WW	NWW
Acetone		0.28	160	Butyl benzyl phthalate		0.017	7.9
Acenaphthalene		0.059	5.4	2-sec-Butyl-4,6-dinitrophenol		0.066	2.5
Acenaphthene		0.059	4.0	Carbon tetrachloride		0.057	5.6
Acetonitrile		0.17	NA	Carbon disulfide		0.014	NA
Acetophenone		0.010	9.7	Chlordane		0.0033	0.13
2-Acetylaminofluorene		0.059	140	p-Chloroaniline		0.46	16
Acrolein		0.29	NA	Chlorobenzene		0.057	5.7
Acrylonitrile		0.24	84	Chlorobenzilate		0.10	NA
Aldrin		0.021	0.066	2-chloro-1,3-butadiene		0.057	NA
4-Aminobiphenyl		0.13	NA	Chlorodibromomethane		0.057	15
Aniline		0.810	14	Chloroethane		0.27	6.0
Anthracene		0.059	4.0	bis-(2-Chloroethoxy)methane		0.036	7.2
Aramite		0.36	NA	bis-(2-Chloroethyl) ether		0.033	7.2
Aroclor 1016		0.013	0.92	Chloroform		0.046	5.6
Aroclor 1221		0.014	0.92	bis-(2-Chloroisopropyl) ether		0.055	7.2
Aroclor 1232		0.013	0.92	p-Chloro-m-cresol		0.018	14
Aroclor 1242		0.017	0.92	Chloromethane (methyl chloride)		0.19	33
Aroclor 1248		0.013	0.92	2-Chloronaphthalene		0.055	5.6
Aroclor 1254		0.014	1.8	2-Chlorophenol		0.044	5.7
Aroclor 1260		0.014	1.8	3-Chloropropylene		0.036	28
alpha-BHC		0.00014	0.066	Chrysene		0.059	8.2
beta-BHC		0.00014	0.066	o-Cresol		0.11	5.6
delta-BHC		0.023	0.066	Cresol (m- and p-isomers)		0.77	3.2
gamma-BHC		0.0017	0.066	Cyclohexanone		0.36	NA
Benzene		0.140	36	1,2-Dibromo-3-Chloropropane		0.11	15
Benzo (a) anthracene		0.059	8.2	1,2-Dibromoethane (Ethylene dibromide)		0.028	15
Benzo (b) fluoranthene		0.055	3.4	Dibromomethane		0.11	15
Benzo (k) fluoranthene		0.059	3.4	2,4-Dichlorophenoxyacetic acid (2,4-D)		0.72	10
Benzo (g,h,i) perylene		0.0055	1.5	o,p-DDD		0.023	0.087
Benzo (a) pyrene		0.061	8.2	p,p-DDD		0.023	0.087
Bromodichloromethane		0.35	15	o,p-DDE		0.031	0.087
Bromoform		0.63	15	p,p-DDE		0.031	0.087
Bromomethane (methyl bromide)		0.11	15	o,p-DDT		0.0039	0.087
4-Bromophenyl phenyl ether		0.055	15	p,p-DDT		0.0039	0.087
n-Butanol (n-butyl alcohol)		5.6	2.6	Dibenz (a,h) anthracene		0.055	8.2
Dibenz (a,e) pyrene		0.061	NA	Ethyl methacrylate		0.14	160
m-Dichlorobenzene		0.036	6.2	Ethylene oxide		0.12	NA

Constituent	[illegible]	WW	RWW	Constituent	[illegible]	WW	RWW
o-Dichlorobenzene		0.088	6.2	Pamphur		0.017	15
Dichlorobenzene		0.090	6.2	Fluoranthene		0.068	8.2
Dichlorodifluoromethane		0.23	7.2	Fluorene		0.059	4.0
1,1-Dichloroethane		0.059	7.2	Fluorotrichloromethane		0.020	33
1,2-Dichloroethane		0.21	7.2	Heptachlor		0.0012	0.066
1,1-Dichloroethylene		0.025	33	Heptachlor epoxide		0.018	0.066
trans-1,2-Dichloroethylene		0.054	33	Hexachlorobenzene		0.055	37
2,4-Dichlorophenol		0.044	14	Hexachlorobutadiene		0.055	28
2,6-Dichlorophenol		0.044	14	Hexachlorocyclopentadiene		0.057	5.6
1,2-Dichloropropane		0.85	18	Hexachlorodibenzo-furans		0.000063	0.001
cis-1,3-Dichloropropene		0.036	18	Hexachlorodibenzo-p-dioxins		0.000063	0.001
trans-1,3-Dichloropropene		0.036	18	Hexachloroethane		0.055	28
Dieldrin		0.017	0.13	Hexachloropropene		0.035	28
Diethyl phthalate		0.20	28	Indeno (1,2,3-c,d) pyrene		0.0055	8.2
2,4-Dimethyl phenol		0.036	14	Iodomethane		0.19	65
Dimethyl phthalate		0.047	28	Isobutanol		5.6	170
Di-n-butyl phthalate		0.057	28	Isodrin		0.021	0.066
1,4-Dinitrobenzene		0.32	2.3	Isosafrole		0.081	2.6
4,6-Dinitrocresol		0.28	160	Kepone		0.0011	0.13
2,4-Dinitrophenol		0.12	160	Methylacrylonitrile		0.24	84
2,4-Dinitrotoluene		0.32	140	Methanol		5.6	NA
2,6-Dinitrotoluene		0.55	28	Methapyrilene		0.081	1.5
Di-n-octyl phthalate		0.017	28	Methoxychlor		0.25	0.18
Di-n-propylnitrosoamine		0.40	14	3-Methylcholanthrene		0.0055	15
Diphenyl amine		0.52	NA	4,4-Methylene-bis-(2-chloroaniline)		0.50	35
1,2-Diphenyl hydrazine		0.087	NA	Methylene chloride		0.089	33
Diphenylnitrosoamine		0.40	NA	Methyl ethyl ketone		0.28	36
1,4-Dioxane		0.12	170	Methyl isobutyl ketone		0.14	33
Disulfoton		0.017	6.2	Methyl methacrylate		0.14	160
Endosulfan I		0.023	0.066	Methyl methanesulfonate		0.018	NA
Endosulfan II		0.029	0.13	Methyl parathion		0.014	4.6
Endosulfan sulfate		0.029	0.13	Naphthalene		0.059	3.1
Endrin		0.0028	0.13	2-Naphthylamine		0.52	NA
Endrin aldehyde		0.025	0.13	p-Nitroaniline		0.028	28
Ethyl acetate		0.34	33	Nitrobenzene		0.068	14
Ethyl benzene		0.057	6.0	5-Nitro-o-toluidine		0.32	28
Ethyl cyanide		0.24	360	4-Nitrophenol		0.12	29
Ethyl ether		0.12	160	N-Nitrosodiethylamine		0.40	28
bis-(2-Ethylhexyl) phthalate		0.28	28	N-Nitrosodimethylamine		0.40	NA
N-Nitroso-di-n-butylamine		0.040	17	1,2,4-Trichlorobenzene		0.055	19
N-Nitrosomethylethylamine		0.040	2.3	1,1,1-Trichlorobenzene ethane		0.054	5.6
N-Nitrosomorpholine		0.040	2.3	1,1,2-Trichloroethane		0.054	5.6
N-Nitrosopiperidine		0.013	35	Trichloroethylene		0.054	5.6
N-Nitrosopyrrolidine		0.013	35	2,4,5-Trichlorophenol		0.18	37
Parathion		0.014	4.8	2,4,6-Trichlorophenol		0.035	37
Pentachlorobenzene		0.058	37	1,2,3-Trichloropropane		0.85	28

Chemical	Has this been detected in waste?	WW	NWW	Chemical	Has this been detected in waste?	WW	NWW
Pentachlorodibenzo-furans		0.000063	0.001	1,1,2-Trichloro-1,2,2-trifluoroethane		0.057	28
Pentachlorodibenzo-p-dioxins		0.000063	0.001	Tris(2,3-dibromopropyl)phosphate		0.11	NA
Pentachloronitrobenzene		0.055	4.8	Vinyl chloride		0.27	33
Pentachlorophenol		0.089	7.4	Xylene(s)		0.32	28
Phenacetin		0.081	16	Cyanides (Total)		1.2	1.8
Phenanthrene		0.059	5.1	Cyanides (Amenable)		0.86	NA
Phenol		0.039	6.2	Fluoride		35	NA
Phorate		0.021	4.6	Sulfide		14	NA
Phthalic anhydride		0.069	NA	Antimony		1.9	0.23'
Pronamide		0.093	1.5	Arsenic	X	1.4	5.0'
Pyrene		0.067	8.2	Barium		1.2	52'
Pyridine		0.014	16	Beryllium		0.82	NA
Safrole		0.081	22	Cadmium	X	0.20	0.066'
Silvex (2,4,5-TP)		0.72	7.9	Chromium		0.37	5.2'
2,4,5-T		0.72	7.9	Copper		1.8	NA
1,2,4,5-Tetrachlorobenzene		0.055	19	Lead		0.28	0.51'
Tetrachlorodibenzo-furans		0.000063	0.001	Mercury		0.15	0.025'
Tetrachlorodibenzo-p-dioxins		0.000063	0.001	Nickel		0.55	0.32'
1,1,1,2-Tetrachloroethane		0.057	42	Selenium		0.82	5.7'
1,1,2,2-Tetrachloroethane		0.057	42	Silver		0.29	0.072'
Tetrachloroethylene		0.056	5.6	Thallium		1.4	NA
2,3,4,6-Tetrachlorophenol		0.030	37	Vanadium		0.042	NA
Toluene		0.080	28	Zinc		1.0	NA
Toxaphene		0.0095	1.3				

'These concentrations are expressed in mg/l and are measured through an analysis of TCLP extract (268.41); all others measured through a total waste analysis (268.43).
Note: Wastewater units are mg/l, nonwastewater are mg/kg.

"I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information."

Signature: [signature] Title: ERS PRP Rep. Date: 11-10-93

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619440 Priority : 10
Profile # : BK3542 Date Received: 10/22/93
Effective Date: 11/04/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUID-IGNITABLE

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXIST.

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE TO STORE AND TRANSHIP TO A CWM OR NON-CWM CERCLA AUTHORIZED FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXISTS.

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 11/04/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) THOMAS JONES Date 11/04/93

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - PORT ARTHU
Proposed Management Facility CWM, INC. - PORT ARTHU

*** This Decision is DENIED

Tracking #: 4619440 Priority : 10
Profile # : BK3542 Date Received: 10/22/93
Effective Date: 10/29/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUID-IGNITABLE

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Waste is liquid in drums. Port Arthur cannot process drummed liquids.
This material is CERCLA waste. Port Arthur is not currently authorized to manage CERCLA waste.

Final Approval _____ Name (print) BRIAN WHITMORE Date 10/29/93

III. Decision to Approve

a) Approved Management Methods

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load

d) Decision Expiration Date 10/29/93

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

F Date Printed 11/10/93 Chemical Waste Management, Inc. EME BK3542

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: RUST - REMEDIAL SERVICES SOUTH
(_) Same
100 GLENBOROUGH
SUITE 500
BYHALIA MS 38611 HOUSTON TX 77067

3. Technical Contact/Phone: GEORGE PONDER 601/851-7367

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC LIQUID-IGNITABLE

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)
B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D001 D008 D009 D018 D039 D040 F001 F002

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 75 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (X) 73-99F (_) 100-139F (_) 140-199F (X) >= 200F (_) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
1,1,1 TRICHLOROETHANE	20 to 50	%
1,2 BUTYLENE OXIDE	0 to 2	%
DIESEL	10 to 20	%
WASTE OIL	10 to 50	%
WATER	0 to 10	%
ASH CONTENT (0-2%)	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	132.000000	

11-17-93 Conversation w/Cynthia Gillery at S.Regional lab confirm lab results of 72°F FP.

12. OTHER: PCBs if yes, concentration N ____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ ____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other ____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other ____

15. ANTICIPATED ANNUAL VOLUME: 350 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4619440

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: ____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile BK3542 GEORGE PONDER CHAIRMAN
Signature Name and Title Date

F Date Printed 11/10/93 EME BK3542

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D001	IGNITIBLE LIQ, TOC >= 10%				INCIN FSUBS	A
2	D008		X	X			A
3	D009	LOW MERCURY, < 260 PPM		X			A
4	D018		X				E
5	D039		X				E
6	D040		X				E
7	F001		X		X		A
8	F002		X		X		A
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: .800 to 1.100

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color BROWN, DOT physical state Liquid,

and physical appearance LOW VISCOSITY, OPAQUE

F Date Printed 11/10/93 EME BK3542

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be	< 50	ppm	A. Heat Value (Btu/lb): 10000-15000 13,300
Potassium as K	< 1000	ppm	B. Water: ____
Sodium as Na	< 1000	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: ____ %
Chlorine as Cl	10 to 20	%	E. Settleable solids: ____ %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	< 1 to 1	%	G. Is this waste a pumpable liquid? Yes X No _
			H. Can this waste be heated to improve flow? Yes _ No X
			I. Is this waste soluble in water? Yes _ No X
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes X No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _ why D001

B. Proper Shipping Name. . . . . .: RQ, WASTE FLAMMABLE LIQUID, N.O.S. (D001, F001)

and Additional Description if required: (CONTAINS 1,1,1-TRICHLOROETHANE, 1,2-BUTYLENE OXIDE)

C. DOT Regulations: United Nations Hazard Class: 3 Flammable liquid I.D. UN1993 Packing Group: II

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 10 Lb

E. Non-Bulk code 202 Bulk code ___

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required FLAMMABLE LIQUID

28. SPECIAL HANDLING INFORMATION

CONTAINS OZONE DEPLETING SUBSTANCE , CONTAINER MUST BE PROPERLY MARKED TO COMPLY WITH 40 CFR 82.106.

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

F Date Printed 11/10/93 EME BK3542

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	California List Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		<50 ppm
Barium as Ba	X	100.0 mg/l		D005					<100 ppm
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		<100 ppm
Chromium tot Cr	X	5.0 mg/l		D007					<100 ppm
Lead as Pb		5.0 mg/l	X	D008			500 mg/l		64.9 ppm
Mercury as Hg		.2 mg/l	X	D009			20 mg/l		0.458 ppm
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					<100 ppm
Nickel as Ni						X	134 mg/l		<100 ppm
Thallium as Tl						X	130 mg/l		<100 ppm
Chromium Hex							500 mg/l		
Antimony									<100 ppm
Beryllium									<50 ppm
Copper									
Vanadium									<100 ppm
Zinc									
Potassium									<1000 ppm
Sodium									<1000 ppm

F Date Printed 11/10/93

EME BK3542

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene		0.5 mg/l	X	D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/10/93 EME BK3542

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: FSUBS
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/04/95
Approved. . . . . : 11/04/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619440

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 01 ACID/ORGANIC
02 POLY TYVEK
05 EXTREMELY FLAMMABLE 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 3 Flammable: 4 Health: 3

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: ___ Download Generator: T083729
Material Class.: 0 DCS Generator #...: 6955472631
Treatment Codes: S01 ___ ___ ___ ___ ___
Process Codes .: 01 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTD
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: Y RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration ____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT CERCLA WASTE	PSC	STORE AND TRANSSHIP TO CERCLA INCINERATOR ROLLINS
PSC	OR RHONE POULANC	PSC	(GEN) APPROVED FOR EME

SUPPLEMENTAL FIELDS

Field	Value

F

Date Printed 11/10/93

Profile Change History

EME BK3542

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
Entire profile copied from profile SRL/BK3542.	11/04/93	WM0326RML

WASTE MANAGEMENT DECISION

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619666 Priority : 30
Profile # : BK3546 Date Received: 11/01/93
Effective Date: 11/08/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUID

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE AS HAZARDOUS LIQUID FOR STORE AND TRANSSHIP TO CERCLA APPROVED OUTLET FOR INCINERATION AT ROLLINS.

(3) Site and Contracting Conditions
THIS IS A CERCLA WASTE.

c) Analytical Requirements for Each Load
Fingerprint
BTU/IC

d) Decision Expiration Date 11/08/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) CYNTHIA GUILLORY Date 11/08/93

F Date Printed 11/16/93 Chemical Waste Management, Inc. EME BK3546

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST-REMEDIAL SVCS-ENCLEAN

100 GLENBOROUGH

BYHALIA MS 38611 SUITE 500

3. Technical Contact/Phone: GEORGE POWDER 601/851-7367 HOUSTON TX 77067

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC & AQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC LIQUID

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D022 D027 D029 D039 D040

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 90 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (_);describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (X) N.A. (_) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
UNKNOWN ORGANIC LIQUID	99 to 100	%
TETRACHLOROETHENE	0 to 10.5	%
TRICHLOROETHENE	0 to .6	%
CHLOROFORM	0 to 13.2	PPM
1,4-DICHLOROBENZENE	0 to 19.8	PPM
1,1-DICHLOROETHENE	0 to 832	PPM
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	111.100000	

12. OTHER: PCBs if yes, concentration N ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other

15. ANTICIPATED ANNUAL VOLUME: 250 Units: GALLONS Shipping Frequency: YEAR

SAMPLING INFORMATION Sample Tracking Number: 4619666

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile BK3546 GEORGE W. POWDER RCRA SUBCOMMITTEE CHAIRMAN

Signature Name and Title Date

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
A__ HOCs, __ PCBs, __ Acid, __ Metals, __ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D022		X				E
2	D027		X				E
3	D029		X				E
4	D039		X				E
5	D040		X				E
6							
7							
8							
9							
10							

Management under the land disposal restrictions:
A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: .800 to 1.600

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional
Phenolics: _ None to _____ _____

24. Identify the waste color YELLOW, DOT physical state Liquid,
and physical appearance LOW VISCOSITY, TRANSPARENT

F Date Printed 11/16/93 EME BK3546

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be		ppm	A. Heat Value (Btu/lb): 1000- 3000
Potassium as K		ppm	B. Water:
Sodium as Na		ppm	C. Viscosity (cps): @ F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: %
Chlorine as Cl	< 60	%	E. Settleable solids: %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg):
Sulfur as S	< 1	%	G. Is this waste a pumpable liquid? Yes _ No _
			H. Can this waste be heated to improve flow? Yes _ No _
			I. Is this waste soluble in water? Yes _ No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

major components are unknown

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE LIQUID, N.O.S.

and Additional Description if required: (EPA TOXICITY)

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I.D. NA3082 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 10 Lb

E. Non-Bulk code 203 Bulk code

F. Special Provisions

G. Labels Required CLASS 9

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

THIS IS A CERCLA WASTE.

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

F Date Printed 11/16/93 EME BK3546

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134. mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

F Date Printed 11/16/93 EME BK3546

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform		6.0 mg/l	X	D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene		7.5 mg/l	X	D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene		0.7 mg/l	X	D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/16/93 EME BK3546

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: NHORG
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/08/95
Approved. . . . . : 11/08/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619666

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK 12 CONTAINS ORGANICS (PNA)
03 AVOID SKIN CONTACT 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 2 Health: 2

Percent Taxable: ____ No. of Labels. . .: _
Tranship Dest .: ___ Download Generator: 1083729
Material Class.: 0 DCS Generator #...: 6955472631
Treatment Codes: S01 ___ ___ ___ ___ ___
Process Codes .: 01 ___ ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTD
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration _____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST-REMEDIAL SVCS-ENCLEAN	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT/BTU/IC	PSC	BTU/LB=2800 CL2=<60%
PSC	STORE AND TRANSSHIP TO CERCLA APPROVED OUTLET FOR	PSC	INCINERATION - ROLLINS.
PSC	THIS IS A CERCLA WASTE.	PSC	(GEN) APPROVED FOR EME.

SUPPLEMENTAL FIELDS

Field	Value
APBLL	HOU
APFEE	01

Date Printed 11/16/93

Profile Change History

EME BK3546

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
Entire profile copied from profile SRL/BK3546.	11/12/93	WM0326LAS

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP METALS

Client Name : Rust Remedial Services, Inc.
Site ID : Enterprise Recovery Systems

Sample ID : BK3546-02
Sample Date : 10/21/93
Date Arrived : 10/21/93

File Name : 9310-584
Sample ID : 9310-584-2

Date of TCLP Extraction : 10/21/93, Filtrate
Matrix Classification : Liquid

Metals	Results (ppm)[1]	Regulatory Level (ppm)	Method (SW-846)	Date Analyzed	By
Arsenic	0.30	5.0	7061A	10/27/93	SH
Barium	<0.05	100.0	6010A	10/26/93	JF
Cadmium	<0.10	1.0	6010A	10/26/93	JF
Chromium	0.316	5.0	6010A	10/26/93	JF
Lead	<1.25	5.0	6010A	10/26/93	JF
Mercury	0.064	0.2	7470	10/26/93	SH
Selenium	0.873	1.0	7741	10/26/93	SH
Silver	<0.175	5.0	6010A	10/26/93	JF

Detection Limits (ppm)

Arsenic	0.10
Barium	0.05
Cadmium	0.10
Chromium	0.175
Lead	1.25
Mercury	0.02
Selenium	0.10
Silver	0.175

1 - Sample results not factored for Matrix Recovery Bias per Federal Register November 24, 1992.

Randall H. Thomas
Vice President

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP BASE NEUTRALS AND ACID EXTRACTABLES

CLIENT NAME : _RUST REMEDIAL SERVICES, INC.
PROJECT # : _531490____
DATE EXTRACTED: _10/22/93
DATE ANALYZED : _10/26/93
SITE ID : _ENTERPRISE RECOVERY SYSTEMS
ANALYST : _DC/MR__
SAMPLE ID : _BK3546-02_____
SAMPLE DATE : _10/21/93_____
FILE NAME : _9310-584.DOC
DATE ARRIVED : _10/21/93_____
SAMPLE # : _9310-584-2__
METHOD (SW-846): _8270
MATRIX : _FILTRATE

DATE OF TCLP EXTRACTION : _10/22/93_
MATRIX CLASSIFICATION : _LIQUID

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
2,4-Dinitrotoluene	ND	353	0.13
Hexachlorobenzene	ND	353	0.13
Hexachlorobutadiene	ND	353	0.50
Hexachloroethane	ND	353	3.00
2-Methylphenol	ND	353	200
3&4-Methylphenol	ND	353	200
Nitrobenzene	ND	353	2.00
Pentachlorophenol	ND	353	100
2,4,5-Trichlorophenol	ND	353	400
2,4,6-Trichlorophenol	ND	353	2.00
Pyridine	ND	353	5.00

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
Nitrobenzene-d5	83.5	100	84	35-114
2-Fluorobiphenyl	74.5	100	75	43-116
4-Terphenyl-d14	81.6	100	82	33-141
Phenol-d6	153	200	77	10-94
2,4,6-Tribromophenol	116	200	58	10-123
2-Fluorophenol	149	200	75	21-100

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED

LABORATORY MANAGER

ENVIRONMENTAL TESTING AND CONSULTING, INC.
MEMPHIS, TN
TCLP VOLATILE COMPOUNDS

CLIENT NAME : _RUST REMEDIAL SERVICES, INC.
PROJECT # : _531490____
DATE ANALYZED : _10/25-26/93
ANALYST : _LS_____

SITE ID : _ENTERPRISE RECOVERY SYSTEMS
SAMPLE ID : _BK3546-02_____
SAMPLE DATE : _10/21/93_____
FILE NAME : _9310-584.DOC
DATE ARRIVED : _10/21/93_____
SAMPLE # : _9310-584-2__
METHOD (SW-846): _8240_
MATRIX : _FILTRATE

DATE OF TCLP EXTRACTION : _10/22/93_
MATRIX CLASSIFICATION : _LIQUID

COMPOUND	SAMPLE RESULTS[2] UNITS:(ppm)	PQL[1] (ppm)	REGULATORY LEVEL(ppm)
Benzene	ND	10	0.50
Carbon Tetrachloride	ND	10	0.50
Chlorobenzene	ND	10	100
Chloroform	13.2	100	6.00
1,4-Dichlorobenzene	19.8	10	7.50
1,2-Dichloroethane	ND	10	0.50
1,1-Dichloroethene	832	10	0.70
Methyl Ethyl Ketone	ND	100	200
Tetrachloroethene	105,000j	10	0.70
Trichloroethene	6,240j	10	0.50
Vinyl Chloride	ND	10	0.20

UNITS:ppb

SURROGATE STANDARD	RESULT	EXP	% REC	QC LIMITS % RECOVERY
1,2-Dichloroethane-d4	42.1	50.0	84	76-114
Toluene-d8	52.9	50.0	106	88-110
4-Bromofluorobenzene	55.5	50.0	110	86-115

1 - PRACTICAL QUANTITATION LIMIT
2 - SAMPLE RESULTS NOT FACTORED FOR MATRIX RECOVERY BIAS PER FEDERAL REGISTER NOVEMBER 24, 1992.
ND - NOT DETECTED
j - ESTIMATED VALUE. RESULT EXCEEDS LINEAR CALIBRATION RANNGE.

LABORATORY MANAGER

WASTE MANAGEMENT DECISION

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619482 Priority : 30
Profile # : BK3547 Date Received: 10/25/93
Effective Date: 11/02/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC LIQUID

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXIST. ROLLINS OR RHONE POULANC

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE TO STORE AND TRANSHIP TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE MANAGEMENT DECISION EXIST.

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 11/02/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) THOMAS JONES Date 11/02/93

F Date Printed 11/10/93 Chemical Waste Management, Inc. EME BK3547

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST - REMEDIAL SERVICES SOUTH

100 GLENBOROUGH

SUITE 500

BYHALIA MS 38611

HOUSTON TX 77067

3. Technical Contact/Phone: GEORGE PONDER 601/851-7367

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC LIQUID

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D039 D040 F001 F002 F003 F005

State Waste Codes:

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 75 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit	Description
1,1,1 TRICHLOROETHANE	20 to 70	%	
TRICHLOROETHYLENE	20 to 70	%	
PERCHLOROETHYLENE	20 to 70	%	
WATER	10 to 20	%	
	to		
	to		
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	230.000000		

12. OTHER: PCBs if yes, concentration N _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ _____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other _____

15. ANTICIPATED ANNUAL VOLUME: 370 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION

Sample Tracking Number: 4619682

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile BK3547 GEORGE W. PONDER CHAIRMAN

Signature Name and Title Date

F Date Printed 11/10/93 EME BK3547

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D039		X				E
2	D040		X				E
3	F001		X		X	INCIN	A
4	F002		X		X	INCIN	A
5	F003		X	X	X	INCIN	A
6	F005		X	X	X	INCIN	A
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color ORANGE, GREEN, DOT physical state Liquid,

and physical appearance MULTI-LAYERED LIQUID

F Date Printed 11/10/93

EME BK3547

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be		ppm	A. Heat Value (Btu/lb): 1- 5000
Potassium as K		ppm	B. Water:
Sodium as Na		ppm	C. Viscosity (cps): @ F _ 100 F _ 150 F
Bromine as Br		%	D. Ash: %
Chlorine as Cl		%	E. Settleable solids: %
Fluorine as F		%	F. Vapor Pressure @ STP (mm/Hg):
Sulfur as S		%	G. Is this waste a pumpable liquid? Yes _ No _
			H. Can this waste be heated to improve flow? Yes _ No _
			I. Is this waste soluble in water? Yes _ No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE LIQUID, N.O.S.

(F001, EPA TOXICITY)

and Additional Description if required: (CONTAINS 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE)

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I.D. NA3082 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 203 Bulk code

F. Special Provisions

G. Labels Required CLASS 9

28. SPECIAL HANDLING INFORMATION

CONTAINS OZONE DEPLETING SUBSTANCE CLASS I (1,1,1-TRICHLOROETHANE)

MUST BE PROPERLY LABELLED.

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

F Date Printed 11/10/93 EME BK3547

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

F Date Printed 11/10/93

EME BK3547

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/10/93

EME BK3547

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: REPACK
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/02/95
Approved. . . . . : 11/02/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619482

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK
03 AVOID SKIN CONTACT 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : ____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 1 Health: 2

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: ___ Download Generator: 1083729
Material Class.: 0 DCS Generator #...: 6955472631
Treatment Codes: S01 ___ ___ ___ ___ ___
Process Codes .: 01 ___ ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTB
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ____ Vapor Concentration _____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT	PSC	STORE AND TRANSSHIP TO ROLLINS OR RHONE POULANC
PSC	(GEN) APPROVED FOR EME	___	

SUPPLEMENTAL FIELDS

Field	Value

Date Printed 11/10/93

Profile Change History

EME BK3547

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
Entire profile copied from profile SRL/BK3547.	11/03/93	WM0326RML

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619439 Priority : 10
Profile # : BK3548 Date Received: 10/22/93
Effective Date: 11/04/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC SOLID-CORROSIVE

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXIST.

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE TO STORE AND TRANSHIP TO A CWM OR NON-CWM CERCLA AUTHORIZED FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXISTS. ROLLINS OR RHONE POULANC

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 11/04/94

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) THOMAS JONES Date 11/04/93

WASTE MANAGEMENT DECISION

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - PORT ARTHU
Proposed Management Facility CWM, INC. - PORT ARTHU

*** This Decision is DENIED

Tracking #: 4619439 Priority : 10
Profile # : BK3548 Date Received: 10/22/93
Effective Date: 10/29/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC SOLID-CORROSIVE

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Site does not currently have authorization to accept CERCLA wastes, and has asked that approvals (even conditional ones--based upon attainment of CERCLA status) not be issued for these wastes. When the Port Arthur facility IS authorized to accept CERCLA materials, this decision will be reevaluated upon request (in accordance with standard preacceptance requirements).

Final Approval _____ Name (print) BRIAN WHITMORE Date 10/29/93

III. Decision to Approve

a) Approved Management Methods

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load

d) Decision Expiration Date 10/29/93

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Date Printed 11/10/93 Chemical Waste Management, Inc. EME BK3548

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST - REMEDIAL SERVICES SOUTH

100 GLENBOROUGH

SUITE 500

BYHALIA MS 38611 HOUSTON TX 77067

3. Technical Contact/Phone: GEORGE POWDER 601/851-7367

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC SOLID-CORROSIVE

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D002

State Waste Codes:

8. Physical State @ 70F: A. Solid(X) Liquid(_) Both(_) Gas(_) B. Single Layer (X) Multilayer (_) C. Free liq. range 0 to 0%

9A. pH: Range 12.5 to 14.0 or Not applicable (_) B. Strong Odor (_);describe

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit Description
CAUSTIC SODA/LIME	20 to 50	%
SOAP, SURFACTANTS	50 to 80	%
	to	
	to	
	to	
	to	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	130.000000	

12. OTHER: PCBs if yes, concentration N ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other

15. ANTICIPATED ANNUAL VOLUME: 40 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4619439

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile BK3548 GEORGE W. POWDER CHAIRMAN

Signature Name and Title Date

F Date Printed 11/10/93 EME BK3548

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D002	Acids, alkaline, other based on 40 CFR 261.22, non-class 1				DEACT	A
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None _____ to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None _____ to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None _____ to _____ _____ Type _____

Optional Phenolics: _ None _____ to _____ _____

. Identify the waste color WHITE, BLACK BROWN _____, DOT physical state Solid _____,

and physical appearance DIRT-LIKE _____

Date Printed 11/10/93

EME BK3548

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION		26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
TOTAL		RANGE
Beryllium as Be	ppm	A. Heat Value (Btu/lb): ____-____
Potassium as K	ppm	B. Water: ____
Sodium as Na	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	%	D. Ash: ____ %
Chlorine as Cl	%	E. Settleable solids: ____ %
Fluorine as F	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	%	G. Is this waste a pumpable liquid? Yes _ No _
		H. Can this waste be heated to improve flow? Yes _ No _
		I. Is this waste soluble in water? Yes _ No _
		J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _ Waste ?

11-17-93 as per Conversation w/ Cynthia Grillory

B. Proper Shipping Name. . . . . .: RQ, CORROSIVE SOLID, N.O.S.

(D002)

and Additional Description if required: (CONTAINS CAUSTIC SODA)

C. DOT Regulations: United Nations Hazard Class: 8 Corrosive Material I.D. UN1759 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 213 Bulk code ___

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required CORROSIVE

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Date Printed 11/10/93

EME BK3548

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		
Barium as Ba	X	100.0 mg/l		D005					
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		
Chromium tot Cr	X	5.0 mg/l		D007					
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					
Nickel as Ni						X	134 mg/l		
Thallium as Tl						X	130 mg/l		
Chromium Hex							500 mg/l		
Antimony									
Beryllium									
Copper									
Vanadium									
Zinc									

Date Printed 11/10/93

EME BK3548

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

Date Printed 11/10/93 EME BK3548

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: HZSTAB
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/04/94
Approved. . . . . : 11/04/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619439

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK
03 AVOID SKIN CONTACT 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 1 Health: 2

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: __ Download Generator: T083729
Material Class.: I DCS Generator #...: 6955472631
Treatment Codes: S01 __ __ __ __ __
Process Codes .: 01 __ __ __ __ __ __ __ __ __
Schedule Category : OSTD
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration ____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	__	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	__	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT CERCLA WASTE	PSC	STORE/TRANSSHIP TO ROLLINS OR RHONE POULANC
PSC	(GEN) APPROVED FOR EME	PSC	DENIED FOR PTA (CERCLA WASTE)
PSC	DEACT REVIEW COMPLETED: NONE		

SUPPLEMENTAL FIELDS

Field	Value

Date Printed 11/10/93 | Profile Change History | EME BK3548

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
CHANGED CONSTITUENT SOAP, SURFACTANTS FROM 30-80%,	11/04/93	WM0326SKG
TO 50-80%, ADDED WASTE CODE D002 TO LANDBAN PER	11/04/93	WM0326SKG
TLJ.	11/04/93	WM0326SKG
Entire profile copied from profile SRL/BK3548.	11/04/93	WM0326SKG

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619483 Priority : 30
Profile # : BK3549 Date Received: 10/25/93
Effective Date: 11/02/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: OR
Description : WASTE ORGANIC CONTAMINATED SOI

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXIST. ROLLINS OR RHONE POULANC

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE TO STORE AND TRANSHIP TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE MANAGEMENT DECISION EXIST.

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 11/02/95

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) THOMAS JONES Date 11/02/93

F Date Printed 11/10/93 Chemical Waste Management, Inc. EME BK3549

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST - REMEDIAL SERVICES SOUTH

100 GLENBOROUGH

BYHALIA MS 38611 SUITE 500

3. Technical Contact/Phone: GEORGE POWDER 601/851-7367 HOUSTON TX 77067

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: WASTE ORGANIC CONTAMINATED SOIL

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (X) No (_)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): D039 D040 F001

State Waste Codes:

8. Physical State @ 70F: A. Solid(X) Liquid(_) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 0 to 0%

9A. pH: Range 10.0 to 12.0 or Not applicable (_) B. Strong Odor (X);describe SOLVENT

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (X) Closed Cup (X) Open Cup (_)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis

Constituents	Range	Unit	Description
1,1,1 TRICHLOROETHANE	5 to 20	%	
SPENT CARBON-LIKE MATERIAL	10 to 95	%	
GREASE	0 to 10	%	
TRICHLOROETHYLENE	20 to 70	%	
TETRACHLOROETHYLENE	20 to 70	%	
WATER	5 to 20	%	
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	285.000000		

12. OTHER: PCBs if yes, concentration N _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _ _____ ppm. NESHAP (N) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other _____

15. ANTICIPATED ANNUAL VOLUME: 520 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4619483

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile BK3549 GEORGE POWDER CHAIRMAN

Signature Name and Title Date

F Date Printed 11/10/93 EME BK3549

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1	D039		X				E
2	D040		X				E
3	F001		X		X	INCIN	A
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.500

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color BLACK, DOT physical state Solid, and physical appearance SOLID

F Date Printed 11/10/93 EME BK3549

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be	< 50	ppm	A. Heat Value (Btu/lb): 10000-12000
Potassium as K	< 1000	ppm	B. Water: _____
Sodium as Na	< 1000	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: _____ %
Chlorine as Cl	< 1 to 5	%	E. Settleable solids: _____ %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	< 1 to 2	%	G. Is this waste a pumpable liquid? Yes _ No _
			H. Can this waste be heated to improve flow? Yes _ No _
			I. Is this waste soluble in water? Yes _ No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No _

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes X No _

B. Proper Shipping Name. . . . . .: RQ, HAZARDOUS WASTE SOLID ,N.O.S.

(F001, EPA TOXICITY)

and Additional Description if required: (CONTAINS 1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE)

C. DOT Regulations: North America Hazard Class: 9 Misc.Hazardous Mater I.D. NA3077 Packing Group: III

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): 100 Lb

E. Non-Bulk code 213 Bulk code 240

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required CLASS 9

28. SPECIAL HANDLING INFORMATION

CONTAINS OZONE DEPLETING SUBSTANCE CLASS I (1,1,1-TRICHLOROETHANE)

MUST BE PROPERLY LABLED.

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

F Date Printed 11/10/93 EME BK3549

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		<50 ppm
Barium as Ba	X	100.0 mg/l		D005					361 ppm
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		<100 ppm
Chromium tot Cr	X	5.0 mg/l		D007					170 ppm
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		267 ppm
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		<0.2 ppm
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					<100 ppm
Nickel as Ni						X	134 mg/l		<100 ppm
Thallium as Tl						X	130 mg/l		<100 ppm
Chromium Hex							500 mg/l		
Antimony									<100 ppm
Beryllium									<50 ppm
Copper									
Vanadium									<100 ppm
Zinc									
Potassium									<1000 ppm
Sodium									<1000 ppm

F Date Printed 11/10/93 EME BK3549

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene		0.7 mg/l	X	D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene		0.5 mg/l	X	D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/10/93 EME BK3549

Profile #

MISCELLANEOUS PROFILE FIELDS

Selling Region Lab: SRL
Master Profile No.: REPACK
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/02/95
Approved. . . . . : 11/02/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619483

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 02 ACID/ORG/DUST PRE FILTER
02 POLY TYVEK
03 AVOID SKIN CONTACT 01 DRUMS

EPA Data: Status Code: C Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 1 Health: 2

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: ___ Download Generator: T083729
Material Class.: 0 DCS Generator #...: 6955472631
Treatment Codes: S01 ___ ___ ___ ___ ___
Process Codes .: 01 ___ ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTB
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration _____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT	PSC	STORE AND TRANSSHIP TO ROLLINS OR RHONE POULANC
PSC	(GEN) APPROVED FOR EME	___	

SUPPLEMENTAL FIELDS

Field	Value

Date Printed 11/10/93

Profile Change History

EME BK3549

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
PER APPROVAL EFFECTIVE 11/02/93 THE CHEM COMP WAS	11/02/93	WM0326RML
AMENDED, ADDED WATER 5-20%, CHANGED TOTAL FROM	11/02/93	WM0326RML
265 TO 285, PER TJ.	11/02/93	WM0326RML
Entire profile copied from profile SRL/BK3549.	11/03/93	WM0326RML

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - EMELLE
Proposed Management Facility CWM, INC. - EMELLE

*** This Decision is APPROVED

Tracking #: 4619438 Priority : 10
Profile # : BK3550 Date Received: 10/22/93
Effective Date: 11/04/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: NH
Description : NON HAZARDOUS ORGANIC LIQUID-N

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Final Approval _____ Name (print) _____ Date _____

III. Decision to Approve

a) Approved Management Methods
Storage/Transship
TO A CWM OR NON-CWM FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXIST.

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions
PRICE TO STORE AND TRANSHIP TO A CWM OR NON-CWM CERCLA AUTHORIZED FACILITY FOR WHICH AN ULTIMATE DISPOSAL DECISION EXISTS. ROLLINS OR RHONE POULANC

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load
Fingerprint

d) Decision Expiration Date 11/04/94

IV. Final Decision

State any Additional Precautions, Conditions, or Limitations

Final Approval _____ Name (print) THOMAS JONES Date 11/04/93

Location of Original CWM SOUTHERN REGION LAB

I. Generator and Facility Information

Decision Site CWM, INC. - PORT ARTHU
Proposed Management Facility CWM, INC. - PORT ARTHU

*** This Decision is DENIED

Tracking #: 4619438 Priority : 10
Profile # : BK3550 Date Received: 10/22/93
Effective Date: 10/29/93
Generator : ENTERPRISE RECOVERY SYSTEMS
Waste Category Code: NH
Description : NON HAZARDOUS ORGANIC LIQUID-N

II. Decision to Deny Approval for Management of Waste

Reason for Denying Approval

Waste is a drummed liquid. Site is not able to process liquid in drums.
This is a CERCLA waste. Site is not currently authorized to manage CERCLA wastes.

Final Approval _____ Name (print) BRIAN WHITMORE Date 10/29/93

III. Decision to Approve

a) Approved Management Methods

b) Precaution Conditions or Limitations on Approval

(1) Site Conditions

(2) Contracting Conditions

(3) Site and Contracting Conditions

c) Analytical Requirements for Each Load

d) Decision Expiration Date 10/29/93

Final Decision

State any Additional Precautions, Conditions, or Limitations

F Date Printed 11/10/93 Chemical Waste Management, Inc. EME BK3550

WASTE PROFILE Profile #

(_) Check here if this is a Recertification LOCATION OF ORIGINAL CWM SOUTHERN REGION LAB

GENERAL INFORMATION

1. Generator Name: ENTERPRISE RECOVERY SYSTEMS Generator USEPA ID: MSD000693176

2. Generator Address: ROUTE 5, BOX 287 Billing Address: (_) Same RUST - REMEDIAL SERVICES SOUTH

100 GLENBOROUGH

BYHALIA MS 38611 SUITE 500

3. Technical Contact/Phone: GEORGE PONDER 601/851-7367 HOUSTON TX 77067

4. Alternate Contact/Phone: MIKE ESTESS 601/851-7367 Billing Contact/Phone: 713/872-6070

PROPERTIES AND COMPOSITION

5. Process Generating Waste: REMEDIATION OF CERCLA SITE: REMOVAL OF SOLID, LIQUID, ORGANIC AND AQUEOUS WASTE STREAMS

6. Waste Name: NON HAZARDOUS ORGANIC LIQUID-NON FLAMMABLE

7A. Is this a USEPA hazardous waste (40 CFR Part 261)? Yes (_) No (X)

B. Identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U): _____

State Waste Codes: _____

8. Physical State @ 70F: A. Solid(_) Liquid(X) Both(_) Gas(_) B. Single Layer (_) Multilayer (X) C. Free liq. range 95 to 100%

9A. pH: Range 5.0 to 9.0 or Not applicable (_) B. Strong Odor (_);describe _____

10. Liquid Flash Point: < 73F (_) 73-99F (_) 100-139F (_) 140-199F (_) >= 200F (_) N.A. (_) Closed Cup (X) Open Cup (_)
140 - 200 (X)

11. CHEMICAL COMPOSITION: List ALL constituents (incl. halogenated organics) present in any concentration and forward analysis ,

Constituents	Range	Unit	Description
SODIUM DIMETHYLDITHIOCARBAMATE (VANCIDE)	0 to 15	%	• Preservative in herbacid to fuels
POLYGLYCOL	0 to 15	%	
BRAKE FLUID	75 to 100	%	• Liner penetrant
WATER (AS MOISTURE CONTENT)	0 to 5	%	
ASH CONTENT: 0-2	to		
	to		
TOTAL COMPOSITION (MUST EQUAL OR EXCEED 100%):	135.000000		

12. OTHER: PCBs if yes, concentration _____ ppm, PCBs regulated by 40 CFR 761 (_). Pyrophoric (_) Explosive (_) Radioactive (_) Benzene if yes, concentration _____ ppm. NESHAP (_) Shock Sensitive (_) Oxidizer (_) Carcinogen (_) Infectious (_) Other _____

13. If waste subject to the land ban & meets treatment standards, check here: _ & supply analytical results where applicable.

SHIPPING INFORMATION

14. PACKAGING: Bulk Solid (_) Bulk Liquid (_) Drum (X) Type/Size: 55 GALLON DRUM Other TONS

15. ANTICIPATED ANNUAL VOLUME: 60 Units: GALLONS Shipping Frequency: ONE TIME

SAMPLING INFORMATION Sample Tracking Number: 4619438

16a. Sample source (drum, lagoon, pond, tank, vat, etc.): DRUM

Date Sampled: 10/17/93 Sampler's Name/Company: GREG RICHARDSON PROTECH

16b. Generator's Agent Supervising Sampling: _____ 17. (_) No sample required (See instructions.)

GENERATOR'S CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste. Any sample submitted is representative as defined in 40 CFR 261 - Appendix I or by using an equivalent method. All relevant information regarding known or suspected hazards in the possession of the generator has been disclosed. I authorize CWM to obtain a sample from any waste shipment for purposes of recertification.

Signature on original profile BK3550 GEORGE PONDER CHAIRMAN

Signature Name and Title Date

F Date Printed 11/10/93 EME BK3550

Profile #

18. This is a Nonwastewater.

19. If this waste is subject to any California list restrictions enter the letter from below (either A, B.1 or B.2) next to each restriction that is applicable:
___ HOCs, ___ PCBs, ___ Acid, ___ Metals, ___ Cyanides

20. Identify ALL Characteristic and Listed USEPA hazardous waste numbers that apply (as defined by 40 CFR 261). For each waste number, identify the subcategory (as applicable, check none, or write in the description from 40 CFR 268.41, 268.42, and 268.43).

REF #	A. US EPA HAZARDOUS WASTE CODE(S)	B. SUBCATEGORY Enter the subcategory description. If not applicable, simply check none		C. APPLICABLE TREATMENT STANDARDS			D. HOW MUST THE WASTE BE MANAGED? Enter letter from below
				PERFORMANCE-BASED: Check as applicable		SPECIFIED TECHNOLOGY: If applicable enter the 40 CFR 268.42 table 1 treatment code(s)	
		DESCRIPTION	NONE	268.41(a)	268.43(a)	268.42	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Management under the land disposal restrictions:

A. RESTRICTED WASTE REQUIRES TREATMENT

B.1 RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS

B.2 RESTRICTED WASTES FOR WHICH THE TREATMENT STANDARD IS EXPRESSED AS A SPECIFIED TECHNOLOGY (AND THE WASTE HAS BEEN TREATED BY THAT TECHNOLOGY)

B.3 GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS

C. RESTRICTED WASTE SUBJECT TO A VARIANCE

D. RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT

E. NOT CURRENTLY SUBJECT TO LAND DISPOSAL RESTRICTIONS

21. Is this waste a soil and/or debris? No: X Yes, Soil: _ Yes, Debris: _ Yes, Both: _

22. Specific Gravity Range: 1.000 to 1.400

23. Indicate the range of each: Units

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Cyanides: _ None to _____ _____ Type (free, total, amenable, etc.) _____

Sulfides: _ None to _____ _____ Type _____

Optional Phenolics: _ None to _____ _____

24. Identify the waste color YELLOW, DOT physical state Liquid,

and physical appearance LOW VISCOSITY, TRANSPARENT

F Date Printed 11/10/93

EME BK3550

Profile #

25. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS OR INCINERATION			26. RECLAMATION, FUELS or INCINERATION PARAMETERS (Provide if information is available)
	TOTAL		RANGE
Beryllium as Be	< 50	ppm	A. Heat Value (Btu/lb): 10000-15000
Potassium as K	< 2000	ppm	B. Water: _____
Sodium as Na	< 25000	ppm	C. Viscosity (cps): ____@____F _ 100 F _ 150 F
Bromine as Br	< 1	%	D. Ash: _____ %
Chlorine as Cl	< 1	%	E. Settleable solids: _____ %
Fluorine as F	< 1	%	F. Vapor Pressure @ STP (mm/Hg): ____
Sulfur as S	< 1	%	G. Is this waste a pumpable liquid? Yes X No _
			H. Can this waste be heated to improve flow? Yes _ No X
			I. Is this waste soluble in water? Yes X No _
			J. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? Yes _ No X

27. TRANSPORTATION INFORMATION

A. Is this a DOT Hazardous Material? Yes _ No X

B. Proper Shipping Name. . . . . .: NON-REGULATED MATERIAL

and Additional Description if required: _____

C. DOT Regulations: _____ Hazard Class: 00 Non-Regulated Mat. I.D. _____ Packing Group: ___

D. CERCLA Reportable Quantity (RQ) and units (Lb, Kg): _____

E. Non-Bulk code ___ Bulk code ___

F. Special Provisions ___ ___ ___ ___ ___ ___

G. Labels Required _____ _____ _____

28. SPECIAL HANDLING INFORMATION

_ Material Safety Data Sheets Attached

29. OTHER INFORMATION

30. CHEMICAL WASTE MANAGEMENT CERTIFICATION

Chemical Waste Management, Inc. has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

F Date Printed 11/10/93 EME BK3550

Profile #

31. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

METALS	TCLP Information: Check only ONE for each constituent Use units: ppm, mg/l				TCLP Data	TCA or TOTAL Use units: ppm, mg/l, mg/kg or percent			
						California List			
	Less Than	TC Regulated Level	Equal or More	Waste No.	TCLP Actual	Less Than	Regulated Level	Equal or More	Actual
Arsenic as As	X	5.0 mg/l		D004			500 mg/l		<50 ppm
Barium as Ba	X	100.0 mg/l		D005					<100 ppm
Cadmium as Cd	X	1.0 mg/l		D006			100 mg/l		<100 ppm
Chromium tot Cr	X	5.0 mg/l		D007					<100 ppm
Lead as Pb	X	5.0 mg/l		D008			500 mg/l		<100 ppm
Mercury as Hg	X	.2 mg/l		D009			20 mg/l		<0.2 ppm
Selenium as Se	X	1.0 mg/l		D010			100 mg/l		
Silver as Ag	X	5.0 mg/l		D011					<100 ppm
Nickel as Ni						X	134 mg/l		<100 ppm
Thallium as Tl						X	130 mg/l		<100 ppm
Chromium Hex							500 mg/l		
Antimony									<100 ppm
Beryllium									<50 ppm
Copper									
Vanadium									<100 ppm
Zinc									
Potassium									1900 ppm
Sodium									22.2 %

F Date Printed 11/10/93 EME BK3550

Profile #

32. OTHER HAZARDOUS CONSTITUENTS Indicate if the waste contains any of the following.

ORGANICS	TCLP Information: Check only ONE for each constituent				TCLP Data	TCA or TOTAL Use units: ppm, mg/l or %
	Less Than	Regulated Level	Equal or More	Waste No.	TCLP Analytical Test Results Use units: ppm or mg/l	
Benzene	X	0.5 mg/l		D018		
Carbon Tetrachloride	X	0.5 mg/l		D019		
Chlordane	X	0.03 mg/l		D020		
Chlorobenzene	X	100.0 mg/l		D021		
Chloroform	X	6.0 mg/l		D022		
m-Cresol	X	200 mg/l		D024		
o-Cresol	X	200.0 mg/l		D023		
p-Cresol	X	200.0 mg/l		D025		
Cresol	X	200.0 mg/l		D026		
2,4-D	X	10.0 mg/l		D016		
1,4 Dichlorobenzene	X	7.5 mg/l		D027		
1,2-Dichloroethane	X	0.5 mg/l		D028		
1,1-Dichloroethylene	X	0.7 mg/l		D029		
2,4-Dinitrotoluene	X	0.13 mg/l		D030		
Endrin	X	.02 mg/l		D012		
Heptachlor, & Hydroxide	X	0.008 mg/l		D031		
Hexachloro-1,3 Butadiene	X	0.5 mg/l		D033		
Hexachlorobenzene	X	0.13 mg/l		D032		
Hexachloroethane	X	3.0 mg/l		D034		
Lindane	X	0.4 mg/l		D013		
Methoxychlor	X	10.0 mg/l		D014		
Methyl Ethyl Ketone	X	200.0 mg/l		D035		
Nitrobenzene	X	2.0 mg/l		D036		
Pentachlorophenol	X	100.0 mg/l		D037		
Pyridine	X	5.0 mg/l		D038		
Tetrachloroethylene	X	0.7 mg/l		D039		
Toxaphene	X	0.5 mg/l		D015		
2,4,5-TP Silvex	X	1.0 mg/l		D017		
Trichloroethylene	X	0.5 mg/l		D040		
2,4,5-Trichlorophenol	X	400.0 mg/l		D041		
2,4,6-Trichlorophenol	X	2.0 mg/l		D042		
Vinyl Chloride	X	0.2 mg/l		D043		

F Date Printed 11/10/93 EME BK3550

Profile #

MISCELLANEOUS PROFILE FIELDS

Billing Region Lab: SRL
Master Profile No.: WHL10
Sales Office. . . : EME
CWM Location Orig.: SRL
Profile Expires . : 11/04/94
Approved. . . . . : 11/04/93
Signed Profile Present: Y Change Pending: _ Waste Status: A
Site (DCS) Status: 1 APPROVED
Prof. Tracking No: 4619438

Fuels Approval.: _
Pumpable Liquid Exact: ___ % OR Range: ___ - ___ %
Type of Pump. .: _____
Additional Anticipated Vol: _____ Per: _ Unit Code/Des: ___ _____

Handling Codes: C LEVEL C PROTECTION 01 ACID/ORGANIC
02 POLY TYVEK
03 AVOID SKIN CONTACT 01 DRUMS

EPA Data: Status Code: U Tax Code. .: _
Permit No: _____ Expr. Date.: _____ Volume. . .: _____
Certificate of Destruction or Disposal Required ? _ Project # : _____
DOT Properties: Inhalation: 2 Dermal: 2 Oral: 2 Flammable: 2 Health: 2

Percent Taxable: ____ No. of Labels. . .:
Tranship Dest .: ___ Download Generator: T083729
Material Class.: I DCS Generator #...: 6955472631
Treatment Codes: S01 ___ ___ ___ ___ ___
Process Codes .: 01 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
Schedule Category : OSTD
Schedule Interval : _____
Listed Solvent Waste: _ Hal. Org. Compounds.: _ RCRA Reactive. . . .: _
Etiologic. . . . . .: _ Water Reactive . . .: _ Pesticide Mfg. Waste: _
Ignition Screen : ___ Gas Evolution : ___ Wet Zone . . . . . .: _
Self-heating cube sz ___ Vapor Concentration _____ Boiling Point F ___
Is Gas Ignitable? _ Corrosive to Steel or Aluminum _ Organic Peroxide _
Chemical Family Name _____

GENERATOR FROM PAGE 1

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
ENTERPRISE RECOVERY SYSTEMS	MSD000693176	G	_	___	_____	_

ADDITIONAL BUSINESSES

Business Name	USEPA ID	Rltn	Contract in Place	at	Expires on	Evergreen Contract
RUST - REMEDIAL SERVICES SOUTH	N/A	I	_	___	_____	_

ADDITIONAL PROFILE COMMENTS

Cat	Comment	Cat	Comment
PSC	FGPT (CERCLA WASTE)	PSC	STORE AND TRANSSHIP TO CERCLA INCINERATOR
PSC	(ROLLINS OR RHONE POULANC)	PSC	(GEN) APPROVED FOR EME

SUPPLEMENTAL FIELDS

Field	Value

Date Printed 11/10/93 | Profile Change History | EME BK3550

Profile #

This section lists comments describing changes made to the profile.

Profile Change Comments	Date	User
PER APPROVAL EFFECTIVE 11/04/93 THE CHEM COMP WAS	11/04/93	WM0326RML
AMENDED, ADDED SODIUM DIMETHYLDITHIOCARBAMATE	11/04/93	WM0326RML
(VANCIDE), WATER & ASH CONTENT TO CHEM COMP,	11/04/93	WM0326RML
CHANGED TOTAL FROM 130 TO 135, PER TJ.	11/04/93	WM0326RML
Entire profile copied from profile SRL/BK3550.	11/04/93	WM0326RML

APPENDIX C-6

SURFICIAL SOIL AND SOIL BORING SAMPLE RESULTS
MARCH 1994

Woodward-Clyde Consultants

DATE: April 1, 1994

TO: Andrew Eversull

FROM: DeJonnette Grantham-King DGK

SUBJECT: Analytical Data Review
Enterprise Recovery Systems (ERS)
Byhalia, Mississippi
Soil Sampling - Volatile Organics
WCC Project No. 92B477

The results of the laboratory analyses of thirty-two samples collected March 3, 1994 through March 6, 1994 at the ERS site located in Byhalia, Mississippi have been reviewed. Analytical Technologies, Inc. (ATI) provided the analytical results for the volatile organics. Detected compounds were present as outlined in Table 1. The following method was employed as outlined by the Environmental Protection Agency (EPA):

- Volatile Organics - EPA Method 8240, 3rd Edition, September 1986 and Rev. 1, July 1992.

The available Quality Assurance/Quality Control (QA/QC) information indicates that, the data met the requirements of Woodward-Clyde Consultants.

A. Holding Times

The soil samples were prepared and analyzed within the holding times outlined in the specified method.

B. Low Soil Blanks

Low soil blanks demonstrate the level of background (laboratory) contamination, and was analyzed at a frequency specified by the Contract Laboratory Program (CLP) protocols. Low soil blanks were analyzed, and the results were within acceptable limits.

C. High Soil Blanks

High soil blanks demonstrate the level of background (laboratory) contamination, and was analyzed at a frequency specified by the Contract Laboratory Program (CLP) protocols. High soil blanks were analyzed, and the results were within acceptable limits.

D. Low Soil Reagents

Low soil reagents were analyzed. The accuracy of the sample was determined by a measure of percent recovery. The percent recovery was within the regulatory control limits outlined by EPA.

E. High Soil Reagents

High soil reagents were analyzed. The accuracy of the sample was determined by a measure of percent recovery. The percent recovery was within the regulatory control limits outlined by EPA.

F. Low Soil Matrixs

Low soil matrixs were analyzed. The accuracy of the sample was determined by a measure of percent recovery. The percent recovery was within the regulatory control limits outlined by EPA.

G. Surrogate Spikes

Surrogate spikes were analyzed, and the results were within acceptable limits as outlined by EPA.

H. Rinsates

Four rinsates were collected and analyzed, and the results were contaminant-free of volatile organics.

I. Trip Blank

One trip blank was analyzed. Laboratory contaminants, acetone and 2-butanone (MEK) were detected at concentrations of 100 μg/l and 140 μg/l, respectively. The reporting limits for these compounds were 10 μg/l and 3 μg/l, respectively. Per my conversation with laboratory personnel, the trip blank was reanalyzed and the concentrations were confirmed. Additionally, the laboratory water was analyzed for the volatile organics, and the results were contaminant-free.

The concentration of acetone detected may be disqualified because the concentration in the sample is less than or equal to ten times (10X) the amount in the blank. A U will be associated with the concentration detected by the laboratory to denote the disqualification as undeteced. 2-butanone cannot be disqualified for the reasons stated above; however, since it was detected in the blank, it should be qualified as an estimated value as will be qualified in the table with a J to the right of the associated concentration.

TABLE 1
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)[1]
ERS1-SS-B02-GS	Total 1,2-Dichloroethylene	69
	Tetrachloroethene	470
	1,1,1-Trichloroethane	34
	1,1,2-Trichloroethane	4,100
ERS1-SS-B05-G	Total 1,2-Dichloroethylene	36
	Ethylbenzene	3
	Methylene chloride	7U[2]
	4 Methyl-2-pentanone	8
	Styrene	13
	Tetrachloroethene	3
	Toluene	28
	1,1,1-Trichloroethane	19
	Trichloroethene	163
	Total xylenes	16
ERS1-SS-A04-GS	Ethylbenzene	470,000
	4-Methyl-2-pentanone	590,000
	Styrene	3,500,000
	Toluene	1,600,000
	Trichloroethene	710,000
	Total xylenes	2,400,000
ERS1-SS-A09-G	Acetone	36UB[2,3]
	1,1-Dichloroethane	11
	Total 1,2-Dichloroethylene	56
	Ethylbenzene	22

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SS-A09-G	Methylene chloride	19U[2]
	Styrene	120
	Tetrachloroethene	3
	Toluene	100
	1,1,1-Trichloroethane	90
	Trichloroethene	320
	Total xylenes	110
ERS1-SS-A08-G	Acetone	51UB[2,3]
	2-Butanone (MEK)	8UB[2,3]
	Total 1,2-Dichloroethylene	140
	Ethylbenzene	940
	4-Methyl-2-pentanone	16
	Tetrachloroethene	180
	Toluene	211
	1,1,1-Trichloroethane	18
	Trichloroethene	60
	Trichlorofluoromethane	5
	Total xylenes	4,200
ERS1-SS-A13-G	1,1-Dichloroethane	6
	Total 1,2-Dichloroethylene	170
	Methylene chloride	9U[2]
	Tetrachloroethene	65

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SS-A13-G	Toluene	8
	1,1,1-Trichloroethane	33
	Trichloroethene	220
ERS1-SS-C05-GS	Ethylbenzene	1,500
	4-Methyl-2-pentanone	8,000
	Toluene	2,600
	Trichloroethene	120
	Total xylenes	10,000
ERS1-SS-C09-G	Acetone	130UB[2,3]
	2-Butanone (MEK)	29UB[2,3]
	Carbon disulfide	2
	Chloroethane	5
	1,1-Dichloroethane	10
	1,1-Dichloroethene	64
	Total 1,2-Dichloroethylene	4,000
	Ethylbenzene	15
	Methylene chloride	9UB[2,3]
	4-Methyl-2-pentanone	16
	Styrene	49
	Tetrachloroethene	320
	Toluene	62
	1,1,1 Trichloroethane	49
	Trichloroethene	110
	Total xylenes	75

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SS-C10-G	Tetrachloroethene	38,000
	Trichloroethene	740,000
ERS1-SS-D02-G	Acetone	76UB[2,3]
	1,1-Dichloroethane	8
	Total 1,2-Dichloroethylene	120
	Methylene chloride	16UB[2,3]
	Tetrachloroethene	4
	Toluene	16
	1,1,1-Trichloroethane	33
	Trichloroethene	200
	Total xylenes	5
ERS1-D07-GS	Acetone	31UB[2,3]
	1,1-Dichloroethane	5
	Total 1,2-Dichloroethylene	41
	Methylene chloride	7UB[2,3]
	1,1,1-Trichloroethane	14
	Trichloroethene	90
ERS1-SS-D08-G	Acetone	22UB[2,3]
	Total 1,2-Dichloroethylene	38
	Methylene chloride	5UB[2,3]
	1,1,1-Trichloroethane	7
	Trichloroethene	62

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SS-E03-GS	Total 1,2-Dichloroethylene	21,000
	Ethylbenzene	6,000
	Tetrachloroethene	15,000
	Toluene	6,000
	1,1,1-Trichloroethane	43,000
	Trichloroethene	1,200
	Total xylenes	57,000
ERS1-SS-E05-G	Total 1,2-Dichloroethylene	14
	Methylene chloride	4U[2]
	Trichloroethene	36
	Trichlorofluoromethane	2
ERS1-SS-E05-D	1,1-Dichloroethane	18
	Total 1,2-Dichloroethylene	140
	Methylene chloride	7U[2]
	Tetrachloroethene	22
	1,1,1-Trichloroethane	61
	Trichloroethene	110
ERS1-SB-B01-GS-23	1,1-Dichloroethane	480
	Total 1,2-Dichloroethylene	13,000
	Ethylbenzene	1,500
	Tetrachloroethene	240
	Toluene	5,200
	1,1,1 Trichloroethane	1,300
	Trichloroethene	210

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SB-B01-GS-23	Total xylenes	7,700
ERS1-SB-B01-GS-78	Acetone	13UB[2,3]
	2-Butanone (MEK)	51UB[2,3]
	Total 1,2-Dichloroethylene	190
	Ethylbenzene	2
	Methylene chloride	9U[2]
	4-Methyl-2-pentanone	86
	1,1,2,2-Tetrachloroethane	4
	Tetrachloroethene	9
	Toluene	9
	1,1,1-Trichloroethane	8
	1,1,2-Trichloroethane	9
	Trichloroethene	100
	Total xylenes	16
ERS1-SB-B02-G-67	1,1-Dichloroethane	2
	Total 1,2-Dichloroethylene	37
	Methylene chloride	6U[2]
	4-Methyl-2-pentanone	8
	Tetrachloroethene	3
	Trichloroethene	33
ERS1-SB-B03-G-56	Acetone	20UB[2,3]
	2-Butanone (MEK)	17UB[2,3]

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SB-B03-G-56	1,1-Dichloroethane	7
	Total 1,2-Dichloroethylene	220
	Methylene chloride	20U[2]
	4-Methyl-2-pentanone	20
	Styrene	3
	Toluene	19
	1,1,1-Trichloroethane	19
	Trichloroethene	120
	Total xylenes	6
ERS1-RS-001-G	-[4]	ND[5]
ERS1-SB-A01-GS-78	Acetone	43,000UB[2,3,6]
	2-Butanone (MEK)	15,000UB[2,3,6]
	4-Methyl-2-pentanone	11,000
	Styrene	480
	Total xylenes	600
ERS1-SB-A02-GS-23	1,1-Dichloroethane	1
	Total 1,2-Dichloroethylene	43
	Tetrachloroethene	8
	Trichloroethene	17
ERS1-SB-A03-G-56	Acetone	13UB[2,3]
	2-Butanone (MEK)	9UB[2,3]
	Total 1,2-Dichloroethylene	37
	4-Methyl-2-pentanone	11
	Trichloroethene	3

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SB-D01-G-12	Acetone	73UB[2,3]
	2-Butanone (MEK)	16UB[2,3]
	1,1-Dichloroethane	7
	Total 1,2-Dichloroethylene	23
	Methylene chloride	14U[2]
	4-Methyl-2-pentanone	4
	Toluene	9
	1,1,1-Trichloroethane	9
	Trichloroethene	38
ERS1-RS-002-G	-[4]	ND[5]
ERS1-TB-001-G	Acetone	100U[3]
	2-Butanone (MEK)	140J[7]
ERS1-SB-D02-G-78	Total 1,2-Dichloroethylene	23
	Methylene chloride	9U[2]
	1,1,1-Trichloroethane	11
	Trichloroethene	45
ERS1-SB-D03-G-01	Acetone	44UB[2,3]
	Methylene chloride	5U[2]
	Trichloroethene	7
ERS1-SB-E01-G-78	Total 1,2-Dichloroethylene	7
	Methylene chloride	4U[2]
	Tetrachloroethene	39

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SB-E02-G-01	1,1-Dichloroethane	9
	Total 1,2-Dichloroethylene	130
	Methylene chloride	4U[2]
	Tetrachloroethene	14
	1,1,1-Trichloroethene	24
	Trichloroethene	24
ERS1-SB-E03-G-01	Total 1,2-Dichloroethylene	29
	Ethylbenzene	4
	Tetrachloroethene	16
	Toluene	6
	1,1,1-Trichloroethane	7
	1,1,2-Trichloroethane	5
	Trichloroethene	72
	Total xylenes	38
ERS1-SB-C01-GS-78	Acetone	19,000UB[2,3,6]
	2-Butanone (MEK)	130,000UB[2,3,6]
	4-Methyl-2-pentanone	85,000
	Total xylenes	3,800
ERS1-SB-C02-GS-67	Total 1,2-Dichloroethylene	12
	Methylene chloride	4U[2]
	Trichlorofluoromethane	41
ERS1-SB-C03-G-01	Acetone	50UB[2,3]
	2-Butanone (MEK)	20UB[2,3]

TABLE 1 (Continued)
ENTERPRISE RECOVERY SYSTEMS
BYHALIA, MISSISSIPPI
SOIL SAMPLING -VOLATILE ORGANICS
SAMPLES COLLECTED MARCH 3-6, 1994
WCC PROJECT NO. 93B477

Sample Identification No.	Parameter	Concentration (ppb)1
ERS1-SB-C03-G-01	Total 1,2-Dichloroethylene	7
	Ethylbenzene	6
	2-Hexanone	16
	Methylene chloride	5U[2]
	4-Methyl-2-pentanone	260
	Trichloroethene	12
	Total xylenes	54
ERS1-SB-C03-D-01	Acetone	130UB[2,3]
	2-Butanone (MEK)	37UB[2,3]
	Ethylbenzene	9
	2-Hexanone	11
	4-Methyl-2-pentanone	150
	Trichloroethene	6
	Total xylenes	76
ERS1-RS-004-G	-[4]	ND[5]
ERS1-RS-003-G	-	ND

Notes:

1 Concentrations are expressed in $\mu g/kg$ for soil samples and $2\mu g/l$ for aqueous samples, which is equivalent to parts per billion (ppb).

2 Methylene chloride is a common laboratory contaminant. Positive sample results should not be reported when the concentration is less than or equal to ten times (10x) the amount in the blank.

3 Compound found in the blank and associated sample.

4 Volatile organics analyzed, but not detected. Numerical value is sample detection limit.

5 Concentrations not detected above the reporting limit.

6 When problems with **any** blanks exist, all associated data must be carefully evaluated to determine whether or not there is an inherent variability in the data, or if the problem is an isolated occurrence not affecting other data. Due to the high levels of acetone and 2-butanone (MEK) detected in the trip blank, the concentrations of these compounds detected in samples ERS1-SB-B01-GS-78 and ERS1-SB-A01-GS-78 may be disqualified. There is a formular that may be implemented to compare liquid results to soil: Reporting limit of compound X 125 (conversion factor for low to medium soil) X dilution factor X 10 (factor for conversion for laboratory contaminants)

7 Estimated quantity.

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

March 18, 1994

INVOICE NUMBER 889317
LAB CODE 160

WOODWARD-CLYDE CONSULTANTS

460 BRIARWOOD DRIVE
JACKSON , MS 39206-0000

Accession #: 403231
Client Name: WOODWARD-CLYDE CONSULTANTS
Office: JACKSON, MISSISSIPPI
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Num: 93B477
Project Location: BYHALIA, MISSISSIPPI
Report Sent To: DEJONETTE KING
P. O. Number: CONTRACT NO. ATI-1
Billing Client: 22227

Samples	Test	Matrix	Description	Actual Price	Extended Price
1	8240	AQ	VOLATILES (8240)	0.00	0.00
1	8240	AQ	VOLATILES (8240)	160.00	160.00
1	8240	AQ	VOLATILES (8240)	220.00	220.00
23	8240	NA	VOLATILES (8240)	160.00	3,680.00
				Total:	$4,060.00

NET 30 DAYS
1 1/2 % Finance Charge on Balance Due over 30 Days

INVOICE ORIGINAL COPY

****
* REMIT PAYMENT TO: *
* Analytical Technologies, Inc. *
* P.O. Box 840436 *
* Dallas, TX 75284-0436 *
****

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

SIGNATURE PAGE

Reviewed by: _____
ATI Project Manager

Client:	WOODWARD-CLYDE CONSULTANTS JACKSON, MISSISSIPPI
Project Name:	ENTERPRISE RECOVERY SYSTEMS
Project Number:	93B477
Project Location:	BYHALIA, MISSISSIPPI
Accession Number:	403231
Project Manager:	DEJONETTE KING
Sampled By:	JIMMY RAYBURN

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 001
Client Sample Id: ERS1-SS-B02-GS
Sample Date/Time: 03-MAR-94 1340
Received Date: 08-MAR-94

Batch: NAS025
Blank: A
Dry Weight %: 81
Extraction Date: N/A
Analysis Date: 12-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	62	
ACROLEIN	UG/KG	ND	620	
ACRYLONITRILE	UG/KG	ND	620	
BENZENE	UG/KG	ND	6	
BROMODICHLOROMETHANE	UG/KG	ND	6	
BROMOFORM	UG/KG	ND	10	
BROMOMETHANE	UG/KG	ND	6	
2-BUTANONE (MEK)	UG/KG	ND	20	
CARBON DISULFIDE	UG/KG	ND	6	
CARBON TETRACHLORIDE	UG/KG	ND	10	
CHLOROBENZENE	UG/KG	ND	6	
CHLOROETHANE	UG/KG	ND	6	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	30	
CHLOROFORM	UG/KG	ND	10	
CHLOROMETHANE	UG/KG	ND	10	
CHLORODIBROMOMETHANE	UG/KG	ND	30	
DIBROMOMETHANE	UG/KG	ND	30	
DICHLORODIFLUOROMETHANE	UG/KG	ND	30	
1,1-DICHLOROETHANE	UG/KG	ND	6	
1,2-DICHLOROETHANE	UG/KG	ND	10	
1,1-DICHLOROETHENE	UG/KG	ND	6	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	69	30	
1,2-DICHLOROPROPANE	UG/KG	ND	10	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	6	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	6	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	30	
ETHYL BENZENE	UG/KG	ND	6	
ETHYL METHACRYLATE	UG/KG	ND	30	
2-HEXANONE	UG/KG	ND	20	
IODOMETHANE	UG/KG	ND	30	
METHYLENE CHLORIDE	UG/KG	ND	20	
4-METHYL-2-PENTANONE	UG/KG	ND	20	
STYRENE	UG/KG	ND	10	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	10	
TETRACHLOROETHENE	UG/KG	470	6	
TOLUENE	UG/KG	ND	30	
1,1,1-TRICHLOROETHANE	UG/KG	34	30	
1,1,2-TRICHLOROETHANE	UG/KG	4100	120	
TRICHLOROETHENE	UG/KG	ND	6	
TRICHLOROFLUOROMETHANE	UG/KG	ND	6	

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Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 001
Client Sample Id: ERS1-SS-B02-GS
Sample Date/Time: 03-MAR-94 1340
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	30	
VINYL ACETATE	UG/KG	ND	10	
VINYL CHLORIDE	UG/KG	ND	6	
TOTAL XYLENES	UG/KG	ND	10	
BROMOFLUOROBENZENE	%REC/SURR	111	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	113	70-121	
TOLUENE-D8	%REC/SURR	105	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 002
Client Sample Id: ERS1-SS-B05-G
Sample Date/Time: 03-MAR-94 1344
Received Date: 08-MAR-94

Batch: NAS024
Blank: C
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 10-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	36	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	3	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	7	4	
4-METHYL-2-PENTANONE	UG/KG	8	4	
STYRENE	UG/KG	13	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	3	1	
TOLUENE	UG/KG	28	6	
1,1,1-TRICHLOROETHANE	UG/KG	19	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	163	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 002
Client Sample Id: ERS1-SS-B05-G
Sample Date/Time: 03-MAR-94 1344
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	16	2	
BROMOFLUOROBENZENE	%REC/SURR	101	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	102	70-121	
TOLUENE-D8	%REC/SURR	112	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 003
Client Sample Id: ERS1-SS-A04-GS
Sample Date/Time: 03-MAR-94 1355
Received Date: 08-MAR-94

Batch: VIS031
Blank: C
Dry Weight %: 85
Extraction Date: 10-MAR-94
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	1200000	
ACROLEIN	UG/KG	ND	12000000	
ACRYLONITRILE	UG/KG	ND	12000000	
BENZENE	UG/KG	ND	120000	
BROMODICHLOROMETHANE	UG/KG	ND	120000	
BROMOFORM	UG/KG	ND	240000	
BROMOMETHANE	UG/KG	ND	120000	
2-BUTANONE (MEK)	UG/KG	ND	350000	
CARBON DISULFIDE	UG/KG	ND	120000	
CARBON TETRACHLORIDE	UG/KG	ND	240000	
CHLOROBENZENE	UG/KG	ND	120000	
CHLOROETHANE	UG/KG	ND	120000	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	590000	
CHLOROFORM	UG/KG	ND	240000	
CHLOROMETHANE	UG/KG	ND	240000	
CHLORODIBROMOMETHANE	UG/KG	ND	590000	
DIBROMOMETHANE	UG/KG	ND	590000	
DICHLORODIFLUOROMETHANE	UG/KG	ND	590000	
1,1-DICHLOROETHANE	UG/KG	ND	120000	
1,2-DICHLOROETHANE	UG/KG	ND	240000	
1,1-DICHLOROETHENE	UG/KG	ND	120000	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	590000	
1,2-DICHLOROPROPANE	UG/KG	ND	240000	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	120000	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	120000	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	590000	
ETHYL BENZENE	UG/KG	470000	120000	
ETHYL METHACRYLATE	UG/KG	ND	590000	
2-HEXANONE	UG/KG	ND	350000	
IODOMETHANE	UG/KG	ND	590000	
METHYLENE CHLORIDE	UG/KG	ND	350000	
4-METHYL-2-PENTANONE	UG/KG	590000	350000	
STYRENE	UG/KG	3500000	240000	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	240000	
TETRACHLOROETHENE	UG/KG	ND	120000	
TOLUENE	UG/KG	1600000	590000	
1,1,1-TRICHLOROETHANE	UG/KG	ND	590000	
1,1,2-TRICHLOROETHANE	UG/KG	ND	240000	
TRICHLOROETHENE	UG/KG	710000	120000	
TRICHLOROFLUOROMETHANE	UG/KG	ND	120000	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 003
Client Sample Id: ERS1-SS-A04-GS
Sample Date/Time: 03-MAR-94 1355
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	590000	
VINYL ACETATE	UG/KG	ND	240000	
VINYL CHLORIDE	UG/KG	ND	120000	
TOTAL XYLENES	UG/KG	2400000	240000	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	DWB		

Comments:
D* = DILUTED OUT.

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 004
Client Sample Id: ERS1-SS-A09-G
Sample Date/Time: 03-MAR-94 1403
Received Date: 08-MAR-94

Batch: NAS024
Blank: B
Dry Weight %: 78
Extraction Date: N/A
Analysis Date: 09-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	36	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	11	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	56	6	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	22	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	19	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	120	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	3	1	
TOLUENE	UG/KG	100	6	
1,1,1-TRICHLOROETHANE	UG/KG	90	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	320	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 004
Client Sample Id: ERS1-SS-A09-G
Sample Date/Time: 03-MAR-94 1403
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	110	3	
BROMOFLUOROBENZENE	%REC/SURR	96	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	94	70-121	
TOLUENE-D8	%REC/SURR	108	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 005
Client Sample Id: ERS1-SS-A08-G
Sample Date/Time: 03-MAR-94 1407
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	51	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	8	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	140	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	940	6	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	ND	4	
4-METHYL-2-PENTANONE	UG/KG	16	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	180	1	
TOLUENE	UG/KG	211	6	
1,1,1-TRICHLOROETHANE	UG/KG	18	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	60	1	
TRICHLOROFLUOROMETHANE	UG/KG	5	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 005
Client Sample Id: ERS1-SS-A08-G
Sample Date/Time: 03-MAR-94 1407
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	4200	12	
BROMOFLUOROBENZENE	%REC/SURR	119	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	96	70-121	
TOLUENE-D8	%REC/SURR	114	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 006
Client Sample Id: ERS1-SS-A13-G
Sample Date/Time: 03-MAR-94 1412
Received Date: 08-MAR-94

Batch: NAS024
Blank: D
Dry Weight %: 73
Extraction Date: N/A
Analysis Date: 10-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	14	
ACROLEIN	UG/KG	ND	140	
ACRYLONITRILE	UG/KG	ND	140	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	7	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	7	
DIBROMOMETHANE	UG/KG	ND	7	
DICHLORODIFLUOROMETHANE	UG/KG	ND	7	
1,1-DICHLOROETHANE	UG/KG	6	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	170	7	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	7	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	7	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	7	
METHYLENE CHLORIDE	UG/KG	9	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	65	1	
TOLUENE	UG/KG	8	7	
1,1,1-TRICHLOROETHANE	UG/KG	33	7	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	220	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 006
Client Sample Id: ERS1-SS-A13-G
Sample Date/Time: 03-MAR-94 1412
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	7	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	3	
BROMOFLUOROBENZENE	%REC/SURR	91	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	105	70-121	
TOLUENE-D8	%REC/SURR	117	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 007
Client Sample Id: ERS1-SS-C05-GS
Sample Date/Time: 03-MAR-94 1418
Received Date: 08-MAR-94

Batch: VIS031
Blank: A
Dry Weight %: 81
Extraction Date: 10-MAR-94
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	1200	
ACROLEIN	UG/KG	ND	12000	
ACRYLONITRILE	UG/KG	ND	12000	
BENZENE	UG/KG	ND	120	
BROMODICHLOROMETHANE	UG/KG	ND	120	
BROMOFORM	UG/KG	ND	250	
BROMOMETHANE	UG/KG	ND	120	
2-BUTANONE (MEK)	UG/KG	ND	370	
CARBON DISULFIDE	UG/KG	ND	120	
CARBON TETRACHLORIDE	UG/KG	ND	250	
CHLOROBENZENE	UG/KG	ND	120	
CHLOROETHANE	UG/KG	ND	120	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	620	
CHLOROFORM	UG/KG	ND	250	
CHLOROMETHANE	UG/KG	ND	250	
CHLORODIBROMOMETHANE	UG/KG	ND	620	
DIBROMOMETHANE	UG/KG	ND	620	
DICHLORODIFLUOROMETHANE	UG/KG	ND	620	
1,1-DICHLOROETHANE	UG/KG	ND	120	
1,2-DICHLOROETHANE	UG/KG	ND	250	
1,1-DICHLOROETHENE	UG/KG	ND	120	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	620	
1,2-DICHLOROPROPANE	UG/KG	ND	250	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	120	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	120	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	620	
ETHYL BENZENE	UG/KG	1500	120	
ETHYL METHACRYLATE	UG/KG	ND	620	
2-HEXANONE	UG/KG	ND	370	
IODOMETHANE	UG/KG	ND	620	
METHYLENE CHLORIDE	UG/KG	ND	370	
4-METHYL-2-PENTANONE	UG/KG	8000	370	
STYRENE	UG/KG	ND	250	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	250	
TETRACHLOROETHENE	UG/KG	ND	120	
TOLUENE	UG/KG	2600	620	
1,1,1-TRICHLOROETHANE	UG/KG	ND	620	
1,1,2-TRICHLOROETHANE	UG/KG	ND	250	
TRICHLOROETHENE	UG/KG	120	120	
TRICHLOROFLUOROMETHANE	UG/KG	ND	120	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 007
Client Sample Id: ERS1-SS-C05-GS
Sample Date/Time: 03-MAR-94 1418
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	620	
VINYL ACETATE	UG/KG	ND	250	
VINYL CHLORIDE	UG/KG	ND	120	
TOTAL XYLENES	UG/KG	10000	250	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	LP		

Comments:
D* = DILUTED OUT.

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 008
Client Sample Id: ERS1-SS-C09-G
Sample Date/Time: 03-MAR-94 1435
Received Date: 08-MAR-94

Batch: NAS024
Blank: B
Dry Weight %: 75
Extraction Date: N/A
Analysis Date: 10-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	130	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	29	4	
CARBON DISULFIDE	UG/KG	2	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	5	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	7	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	7	
DIBROMOMETHANE	UG/KG	ND	7	
DICHLORODIFLUOROMETHANE	UG/KG	ND	7	
1,1-DICHLOROETHANE	UG/KG	10	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	64	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	4000	666	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	7	
ETHYL BENZENE	UG/KG	15	1	
ETHYL METHACRYLATE	UG/KG	ND	7	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	7	
METHYLENE CHLORIDE	UG/KG	9	4	
4-METHYL-2-PENTANONE	UG/KG	16	4	
STYRENE	UG/KG	49	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	320	1	
TOLUENE	UG/KG	62	7	
1,1,1-TRICHLOROETHANE	UG/KG	49	7	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	110	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 008
Client Sample Id: ERS1-SS-C09-G
Sample Date/Time: 03-MAR-94 1435
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	7	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	75	3	
BROMOFLUOROBENZENE	%REC/SURR	100	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	96	70-121	
TOLUENE-D8	%REC/SURR	109	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 009
Client Sample Id: ERS1-SS-C10-G
Sample Date/Time: 03-MAR-94 1440
Received Date: 08-MAR-94

Batch: VIS031
Blank: C
Dry Weight %: 78
Extraction Date: 10-MAR-94
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	130000	
ACROLEIN	UG/KG	ND	1300000	
ACRYLONITRILE	UG/KG	ND	1300000	
BENZENE	UG/KG	ND	13000	
BROMODICHLOROMETHANE	UG/KG	ND	13000	
BROMOFORM	UG/KG	ND	26000	
BROMOMETHANE	UG/KG	ND	13000	
2-BUTANONE (MEK)	UG/KG	ND	38000	
CARBON DISULFIDE	UG/KG	ND	13000	
CARBON TETRACHLORIDE	UG/KG	ND	26000	
CHLOROBENZENE	UG/KG	ND	13000	
CHLOROETHANE	UG/KG	ND	13000	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	64000	
CHLOROFORM	UG/KG	ND	26000	
CHLOROMETHANE	UG/KG	ND	26000	
CHLORODIBROMOMETHANE	UG/KG	ND	64000	
DIBROMOMETHANE	UG/KG	ND	64000	
DICHLORODIFLUOROMETHANE	UG/KG	ND	64000	
1,1-DICHLOROETHANE	UG/KG	ND	13000	
1,2-DICHLOROETHANE	UG/KG	ND	26000	
1,1-DICHLOROETHENE	UG/KG	ND	13000	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	64000	
1,2-DICHLOROPROPANE	UG/KG	ND	26000	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	13000	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	13000	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	64000	
ETHYL BENZENE	UG/KG	ND	13000	
ETHYL METHACRYLATE	UG/KG	ND	64000	
2-HEXANONE	UG/KG	ND	38000	
IODOMETHANE	UG/KG	ND	64000	
METHYLENE CHLORIDE	UG/KG	ND	38000	
4-METHYL-2-PENTANONE	UG/KG	ND	38000	
STYRENE	UG/KG	ND	26000	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	26000	
TETRACHLOROETHENE	UG/KG	38000	13000	
TOLUENE	UG/KG	ND	64000	
1,1,1-TRICHLOROETHANE	UG/KG	ND	64000	
1,1,2-TRICHLOROETHANE	UG/KG	ND	26000	
TRICHLOROETHENE	UG/KG	740000	13000	
TRICHLOROFLUOROMETHANE	UG/KG	ND	13000	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 009
Client Sample Id: ERS1-SS-C10-G
Sample Date/Time: 03-MAR-94 1440
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	64000	
VINYL ACETATE	UG/KG	ND	26000	
VINYL CHLORIDE	UG/KG	ND	13000	
TOTAL XYLENES	UG/KG	ND	26000	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	LP		

Comments:
D* = DILUTED OUT.

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 010
Client Sample Id: ERS1-SS-D02-G
Sample Date/Time: 03-MAR-94 1450
Received Date: 08-MAR-94

Batch: NAS024
Blank: D
Dry Weight %: 73
Extraction Date: N/A
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	76	14	
ACROLEIN	UG/KG	ND	140	
ACRYLONITRILE	UG/KG	ND	140	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	7	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	7	
DIBROMOMETHANE	UG/KG	ND	7	
DICHLORODIFLUOROMETHANE	UG/KG	ND	7	
1,1-DICHLOROETHANE	UG/KG	8	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	120	7	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	7	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	7	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	7	
METHYLENE CHLORIDE	UG/KG	16	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	4	1	
TOLUENE	UG/KG	16	7	
1,1,1-TRICHLOROETHANE	UG/KG	33	7	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	200	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 010
Client Sample Id: ERS1-SS-D02-G
Sample Date/Time: 03-MAR-94 1450
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	7	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	5	3	
BROMOFLUOROBENZENE	%REC/SURR	100	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	109	70-121	
TOLUENE-D8	%REC/SURR	113	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 011
Client Sample Id: ERS1-SS-D07-GS
Sample Date/Time: 03-MAR-94 1458
Received Date: 08-MAR-94

Batch: NAS024
Blank: D
Dry Weight %: 81
Extraction Date: N/A
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	31	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	5	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	41	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	7	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	14	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	90	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 011
Client Sample Id: ERS1-SS-D07-GS
Sample Date/Time: 03-MAR-94 1458
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	92	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	104	70-121	
TOLUENE-D8	%REC/SURR	113	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 012
Client Sample Id: ERS1-SS-D08-G
Sample Date/Time: 03-MAR-94 1527
Received Date: 08-MAR-94

Batch: NAS024
Blank: E
Dry Weight %: 76
Extraction Date: N/A
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	22	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	7	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	7	
DIBROMOMETHANE	UG/KG	ND	7	
DICHLORODIFLUOROMETHANE	UG/KG	ND	7	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	38	7	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1;3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	7	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	7	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	7	
METHYLENE CHLORIDE	UG/KG	5	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	7	
1,1,1-TRICHLOROETHANE	UG/KG	7	7	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	62	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 012
Client Sample Id: ERS1-SS-D08-G
Sample Date/Time: 03-MAR-94 1527
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	7	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	3	
BROMOFLUOROBENZENE	%REC/SURR	106	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	105	70-121	
TOLUENE-D8	%REC/SURR	107	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 013
Client Sample Id: ERS1-SS-E03-GS
Sample Date/Time: 03-MAR-94 1540
Received Date: 08-MAR-94

Batch: VIS031
Blank: C
Dry Weight %: 84
Extraction Date: 10-MAR-94
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12000	
ACROLEIN	UG/KG	ND	120000	
ACRYLONITRILE	UG/KG	ND	120000	
BENZENE	UG/KG	ND	1200	
BROMODICHLOROMETHANE	UG/KG	ND	1200	
BROMOFORM	UG/KG	ND	2400	
BROMOMETHANE	UG/KG	ND	1200	
2-BUTANONE (MEK)	UG/KG	ND	3600	
CARBON DISULFIDE	UG/KG	ND	1200	
CARBON TETRACHLORIDE	UG/KG	ND	2400	
CHLOROBENZENE	UG/KG	ND	1200	
CHLOROETHANE	UG/KG	ND	1200	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6000	
CHLOROFORM	UG/KG	ND	2400	
CHLOROMETHANE	UG/KG	ND	2400	
CHLORODIBROMOMETHANE	UG/KG	ND	6000	
DIBROMOMETHANE	UG/KG	ND	6000	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6000	
1,1-DICHLOROETHANE	UG/KG	ND	1200	
1,2-DICHLOROETHANE	UG/KG	ND	2400	
1,1-DICHLOROETHENE	UG/KG	ND	1200	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	21000	6000	
1,2-DICHLOROPROPANE	UG/KG	ND	2400	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1200	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1200	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6000	
ETHYL BENZENE	UG/KG	6000	1200	
ETHYL METHACRYLATE	UG/KG	ND	6000	
2-HEXANONE	UG/KG	ND	3600	
IODOMETHANE	UG/KG	ND	6000	
METHYLENE CHLORIDE	UG/KG	ND	3600	
4-METHYL-2-PENTANONE	UG/KG	ND	3600	
STYRENE	UG/KG	ND	2400	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2400	
TETRACHLOROETHENE	UG/KG	15000	1200	
TOLUENE	UG/KG	6000	6000	
1,1,1-TRICHLOROETHANE	UG/KG	43000	6000	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2400	
TRICHLOROETHENE	UG/KG	1200	1200	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1200	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 013
Client Sample Id: ERS1-SS-E03-GS
Sample Date/Time: 03-MAR-94 1540
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6000	
VINYL ACETATE	UG/KG	ND	2400	
VINYL CHLORIDE	UG/KG	ND	1200	
TOTAL XYLENES	UG/KG	57000	2400	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	LP		

Comments:
D* = DILUTED OUT.

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 014
Client Sample Id: ERS1-SS-E05-G
Sample Date/Time: 03-MAR-94 1545
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	14	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	4	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	36	1	
TRICHLOROFLUOROMETHANE	UG/KG	2	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 014
Client Sample Id: ERS1-SS-E05-G
Sample Date/Time: 03-MAR-94 1545
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	95	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	104	70-121	
TOLUENE-D8	%REC/SURR	112	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 015
Client Sample Id: ERS1-SS-E05-D
Sample Date/Time: 03-MAR-94 1545
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 79
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	18	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	140	6	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	7	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	22	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	61	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	110	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 015
Client Sample Id: ERS1-SS-E05-D
Sample Date/Time: 03-MAR-94 1545
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	3	
BROMOFLUOROBENZENE	%REC/SURR	94	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	104	70-121	
TOLUENE-D8	%REC/SURR	111	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: N

Lab Id: 016
Client Sample Id: ERS1-SB-B01-GS-23
Sample Date/Time: 03-MAR-94 1725
Received Date: 08-MAR-94

Batch: VIS031
Blank: C
Dry Weight %: 84
Extraction Date: 10-MAR-94
Analysis Date: 12-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	1200	
ACROLEIN	UG/KG	ND	12000	
ACRYLONITRILE	UG/KG	ND	12000	
BENZENE	UG/KG	ND	120	
BROMODICHLOROMETHANE	UG/KG	ND	120	
BROMOFORM	UG/KG	ND	240	
BROMOMETHANE	UG/KG	ND	120	
2-BUTANONE (MEK)	UG/KG	ND	360	
CARBON DISULFIDE	UG/KG	ND	120	
CARBON TETRACHLORIDE	UG/KG	ND	240	
CHLOROBENZENE	UG/KG	ND	120	
CHLOROETHANE	UG/KG	ND	120	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	600	
CHLOROFORM	UG/KG	ND	240	
CHLOROMETHANE	UG/KG	ND	240	
CHLORODIBROMOMETHANE	UG/KG	ND	600	
DIBROMOMETHANE	UG/KG	ND	600	
DICHLORODIFLUOROMETHANE	UG/KG	ND	600	
1,1-DICHLOROETHANE	UG/KG	480	120	
1,2-DICHLOROETHANE	UG/KG	ND	240	
1,1-DICHLOROETHENE	UG/KG	ND	120	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	13000	600	
1,2-DICHLOROPROPANE	UG/KG	ND	240	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	120	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	120	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	600	
ETHYL BENZENE	UG/KG	1500	120	
ETHYL METHACRYLATE	UG/KG	ND	600	
2-HEXANONE	UG/KG	ND	360	
IODOMETHANE	UG/KG	ND	600	
METHYLENE CHLORIDE	UG/KG	ND	360	
4-METHYL-2-PENTANONE	UG/KG	ND	360	
STYRENE	UG/KG	ND	240	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	240	
TETRACHLOROETHENE	UG/KG	240	120	
TOLUENE	UG/KG	5200	600	
1,1,1-TRICHLOROETHANE	UG/KG	1300	600	
1,1,2-TRICHLOROETHANE	UG/KG	ND	240	
TRICHLOROETHENE	UG/KG	210	120	
TRICHLOROFLUOROMETHANE	UG/KG	ND	120	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: N

Lab Id: 016
Client Sample Id: ERS1-SB-B01-GS-23
Sample Date/Time: 03-MAR-94 1725
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	600	
VINYL ACETATE	UG/KG	ND	240	
VINYL CHLORIDE	UG/KG	ND	120	
TOTAL XYLENES	UG/KG	7700	240	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	LP		

Comments:
D* = DILUTED OUT.

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 017
Client Sample Id: ERS1-SB-B01-GS-78
Sample Date/Time: 03-MAR-94 1730
Received Date: 08-MAR-94

Batch: NAS025
Blank: A
Dry Weight %: 81
Extraction Date: N/A
Analysis Date: 12-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	13	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	51	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	190	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	2	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	9	4	
4-METHYL-2-PENTANONE	UG/KG	86	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	4	2	
TETRACHLOROETHENE	UG/KG	9	1	
TOLUENE	UG/KG	9	6	
1,1,1-TRICHLOROETHANE	UG/KG	8	6	
1,1,2-TRICHLOROETHANE	UG/KG	9	2	
TRICHLOROETHENE	UG/KG	100	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 017
Client Sample Id: ERS1-SB-B01-GS-78
Sample Date/Time: 03-MAR-94 1730
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	16	2	
BROMOFLUOROBENZENE	%REC/SURR	113	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	106	70-121	
TOLUENE-D8	%REC/SURR	101	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 018
Client Sample Id: ERS1-SB-B02-G-67
Sample Date/Time: 04-MAR-94 1050
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 81
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	2	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	37	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	6	4	
4-METHYL-2-PENTANONE	UG/KG	8	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	3	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	33	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 018
Client Sample Id: ERS1-SB-B02-G-67
Sample Date/Time: 04-MAR-94 1050
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	97	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	99	70-121	
TOLUENE-D8	%REC/SURR	106	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 019
Client Sample Id: ERS1-SB-B03-G-56
Sample Date/Time: 04-MAR-94 1055
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 79
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	20	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	17	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	7	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	220	6	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	20	4	
4-METHYL-2-PENTANONE	UG/KG	20	4	
STYRENE	UG/KG	3	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	19	6	
1,1,1-TRICHLOROETHANE	UG/KG	19	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	120	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 019
Client Sample Id: ERS1-SB-B03-G-56
Sample Date/Time: 04-MAR-94 1055
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	6	3	
BROMOFLUOROBENZENE	%REC/SURR	100	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	100	70-121	
TOLUENE-D8	%REC/SURR	113	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 020
Client Sample Id: ERS1-RS-001-G
Sample Date/Time: 04-MAR-94 1220
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
ACROLEIN	UG/L	ND	100	
ACRYLONITRILE	UG/L	ND	100	
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	1	
2-BUTANONE (MEK)	UG/L	ND	3	
CARBON DISULFIDE	UG/L	ND	1	
CARBON TETRACHLORIDE	UG/L	ND	2	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	2	
CHLORODIBROMOMETHANE	UG/L	ND	5	
DIBROMOMETHANE	UG/L	ND	5	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	2	
1,1-DICHLOROETHENE	UG/L	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5	
1,2-DICHLOROPROPANE	UG/L	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
1,4-DICHLORO-2-BUTENE	UG/L	ND	5	
ETHYL BENZENE	UG/L	ND	1	
ETHYL METHACRYLATE	UG/L	ND	5	
2-HEXANONE	UG/L	ND	3	
IODOMETHANE	UG/L	ND	5	
METHYLENE CHLORIDE	UG/L	ND	3	
4-METHYL-2-PENTANONE	UG/L	ND	3	
STYRENE	UG/L	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2	
TETRACHLOROETHENE	UG/L	ND	1	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 020
Client Sample Id: ERS1-RS-001-G
Sample Date/Time: 04-MAR-94 1220
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/L	ND	5	
VINYL ACETATE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
TOTAL XYLENES	UG/L	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	98	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	104	76-114	
TOLUENE-D8	%REC/SURR	111	88-115	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 021
Client Sample Id: ERS1-SB-A01-GS-78
Sample Date/Time: 04-MAR-94 1455
Received Date: 08-MAR-94

Batch: VIS031
Blank: C
Dry Weight %: 83
Extraction Date: 10-MAR-94
Analysis Date: 12-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	43000	1200	
ACROLEIN	UG/KG	ND	12000	
ACRYLONITRILE	UG/KG	ND	12000	
BENZENE	UG/KG	ND	120	
BROMODICHLOROMETHANE	UG/KG	ND	120	
BROMOFORM	UG/KG	ND	240	
BROMOMETHANE	UG/KG	ND	120	
2-BUTANONE (MEK)	UG/KG	15000	360	
CARBON DISULFIDE	UG/KG	ND	120	
CARBON TETRACHLORIDE	UG/KG	ND	240	
CHLOROBENZENE	UG/KG	ND	120	
CHLOROETHANE	UG/KG	ND	120	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	600	
CHLOROFORM	UG/KG	ND	240	
CHLOROMETHANE	UG/KG	ND	240	
CHLORODIBROMOMETHANE	UG/KG	ND	600	
DIBROMOMETHANE	UG/KG	ND	600	
DICHLORODIFLUOROMETHANE	UG/KG	ND	600	
1,1-DICHLOROETHANE	UG/KG	ND	120	
1,2-DICHLOROETHANE	UG/KG	ND	240	
1,1-DICHLOROETHENE	UG/KG	ND	120	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	600	
1,2-DICHLOROPROPANE	UG/KG	ND	240	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	120	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	120	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	600	
ETHYL BENZENE	UG/KG	ND	120	
ETHYL METHACRYLATE	UG/KG	ND	600	
2-HEXANONE	UG/KG	ND	360	
IODOMETHANE	UG/KG	ND	600	
METHYLENE CHLORIDE	UG/KG	ND	360	
4-METHYL-2-PENTANONE	UG/KG	11000	360	
STYRENE	UG/KG	480	240	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	240	
TETRACHLOROETHENE	UG/KG	ND	120	
TOLUENE	UG/KG	ND	600	
1,1,1-TRICHLOROETHANE	UG/KG	ND	600	
1,1,2-TRICHLOROETHANE	UG/KG	ND	240	
TRICHLOROETHENE	UG/KG	ND	120	
TRICHLOROFLUOROMETHANE	UG/KG	ND	120	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 021
Client Sample Id: ERS1-SB-A01-GS-78
Sample Date/Time: 04-MAR-94 1455
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	600	
VINYL ACETATE	UG/KG	ND	240	
VINYL CHLORIDE	UG/KG	ND	120	
TOTAL XYLENES	UG/KG	600	240	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	LP		

Comments:
D* = DILUTED OUT.

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 022
Client Sample Id: ERS1-SB-A02-GS-23
Sample Date/Time: 04-MAR-94 1500
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	1	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	43	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	ND	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	8	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	17	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 022
Client Sample Id: ERS1-SB-A02-GS-23
Sample Date/Time: 04-MAR-94 1500
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	103	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	104	70-121	
TOLUENE-D8	%REC/SURR	106	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 023
Client Sample Id: ERS1-SB-A03-G-56
Sample Date/Time: 04-MAR-94 1725
Received Date: 08-MAR-94

Batch: NAS025
Blank: B
Dry Weight %: 81
Extraction Date: N/A
Analysis Date: 13-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	13	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	9	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	37	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	ND	4	
4-METHYL-2-PENTANONE	UG/KG	11	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	3	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 023
Client Sample Id: ERS1-SB-A03-G-56
Sample Date/Time: 04-MAR-94 1725
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	94	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	96	70-121	
TOLUENE-D8	%REC/SURR	117	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 024
Client Sample Id: ERS1-SB-D01-G-12
Sample Date/Time: 04-MAR-94 1730
Received Date: 08-MAR-94

Batch: NAS026
Blank: A
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 14-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	73	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	16	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	7	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	23	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	14	4	
4-METHYL-2-PENTANONE	UG/KG	4	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	9	6	
1,1,1-TRICHLOROETHANE	UG/KG	9	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	38	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 024
Client Sample Id: ERS1-SB-D01-G-12
Sample Date/Time: 04-MAR-94 1730
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	99	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	108	70-121	
TOLUENE-D8	%REC/SURR	101	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 025
Client Sample Id: ERS1-RS-002-G
Sample Date/Time: 04-MAR-94 1755
Received Date: 08-MAR-94

Batch: NAS025
Blank: C
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 14-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
ACROLEIN	UG/L	ND	100	
ACRYLONITRILE	UG/L	ND	100	
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	1	
2-BUTANONE (MEK)	UG/L	ND	3	
CARBON DISULFIDE	UG/L	ND	1	
CARBON TETRACHLORIDE	UG/L	ND	2	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	2	
CHLORODIBROMOMETHANE	UG/L	ND	5	
DIBROMOMETHANE	UG/L	ND	5	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	2	
1,1-DICHLOROETHENE	UG/L	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5	
1,2-DICHLOROPROPANE	UG/L	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
1,4-DICHLORO-2-BUTENE	UG/L	ND	5	
ETHYL BENZENE	UG/L	ND	1	
ETHYL METHACRYLATE	UG/L	ND	5	
2-HEXANONE	UG/L	ND	3	
IODOMETHANE	UG/L	ND	5	
METHYLENE CHLORIDE	UG/L	ND	3	
4-METHYL-2-PENTANONE	UG/L	ND	3	
STYRENE	UG/L	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2	
TETRACHLOROETHENE	UG/L	ND	1	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 025
Client Sample Id: ERS1-RS-002-G
Sample Date/Time: 04-MAR-94 1755
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/L	ND	5	
VINYL ACETATE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
TOTAL XYLENES	UG/L	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	106	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	100	76-114	
TOLUENE-D8	%REC/SURR	113	88-115	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 026
Client Sample Id: ERS1-TB-001-G
Sample Date/Time: 04-MAR-94 1810
Received Date: 08-MAR-94

Batch: NAS025
Blank: C
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 14-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	100	10	
ACROLEIN	UG/L	ND	100	
ACRYLONITRILE	UG/L	ND	100	
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	1	
2-BUTANONE (MEK)	UG/L	140	3	
CARBON DISULFIDE	UG/L	ND	1	
CARBON TETRACHLORIDE	UG/L	ND	2	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	2	
CHLORODIBROMOMETHANE	UG/L	ND	5	
DIBROMOMETHANE	UG/L	ND	5	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	2	
1,1-DICHLOROETHENE	UG/L	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5	
1,2-DICHLOROPROPANE	UG/L	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
1,4-DICHLORO-2-BUTENE	UG/L	ND	5	
ETHYL BENZENE	UG/L	ND	1	
ETHYL METHACRYLATE	UG/L	ND	5	
2-HEXANONE	UG/L	ND	3	
IODOMETHANE	UG/L	ND	5	
METHYLENE CHLORIDE	UG/L	ND	3	
4-METHYL-2-PENTANONE	UG/L	ND	3	
STYRENE	UG/L	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2	
TETRACHLOROETHENE	UG/L	ND	1	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 026
Client Sample Id: ERS1-TB-001-G
Sample Date/Time: 04-MAR-94 1810
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/L	ND	5	
VINYL ACETATE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
TOTAL XYLENES	UG/L	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	96	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	105	76-114	
TOLUENE-D8	%REC/SURR	108	88-115	
ANALYST	INITIALS	DWB		

Comments:

"Method Report Summary"

Accession Number: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)

Client Sample Id:	Parameter:	Unit:	Result:
ERS1-SS-B02-GS	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	69
	TETRACHLOROETHENE	UG/KG	470
	1,1,1-TRICHLOROETHANE	UG/KG	34
	1,1,2-TRICHLOROETHANE	UG/KG	4100
ERS1-SS-B05-G	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	36
	ETHYL BENZENE	UG/KG	3
	METHYLENE CHLORIDE	UG/KG	7
	4-METHYL-2-PENTANONE	UG/KG	8
	STYRENE	UG/KG	13
	TETRACHLOROETHENE	UG/KG	3
	TOLUENE	UG/KG	28
	1,1,1-TRICHLOROETHANE	UG/KG	19
	TRICHLOROETHENE	UG/KG	163
	TOTAL XYLENES	UG/KG	16
ERS1-SS-A04-GS	ETHYL BENZENE	UG/KG	470000
	4-METHYL-2-PENTANONE	UG/KG	590000
	STYRENE	UG/KG	3500000
	TOLUENE	UG/KG	1600000
	TRICHLOROETHENE	UG/KG	710000
	TOTAL XYLENES	UG/KG	2400000
ERS1-SS-A09-G	ACETONE	UG/KG	36
	1,1-DICHLOROETHANE	UG/KG	11
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	56
	ETHYL BENZENE	UG/KG	22
	METHYLENE CHLORIDE	UG/KG	19
	STYRENE	UG/KG	120
	TETRACHLOROETHENE	UG/KG	3
	TOLUENE	UG/KG	100
	1,1,1-TRICHLOROETHANE	UG/KG	90
	TRICHLOROETHENE	UG/KG	320
	TOTAL XYLENES	UG/KG	110
ERS1-SS-A08-G	ACETONE	UG/KG	51
	2-BUTANONE (MEK)	UG/KG	8
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	140
	ETHYL BENZENE	UG/KG	940
	4-METHYL-2-PENTANONE	UG/KG	16
	TETRACHLOROETHENE	UG/KG	180
	TOLUENE	UG/KG	211
	1,1,1-TRICHLOROETHANE	UG/KG	18
	TRICHLOROETHENE	UG/KG	60
	TRICHLOROFLUOROMETHANE	UG/KG	5
	TOTAL XYLENES	UG/KG	4200
ERS1-SS-A13-G	1,1-DICHLOROETHANE	UG/KG	6
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	170

"Method Report Summary"

Accession Number: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)

Client Sample Id:	Parameter:	Unit:	Result:
	METHYLENE CHLORIDE	UG/KG	9
	TETRACHLOROETHENE	UG/KG	65
	TOLUENE	UG/KG	8
	1,1,1-TRICHLOROETHANE	UG/KG	33
	TRICHLOROETHENE	UG/KG	220
ERS1-SS-C05-GS	ETHYL BENZENE	UG/KG	1500
	4-METHYL-2-PENTANONE	UG/KG	8000
	TOLUENE	UG/KG	2600
	TRICHLOROETHENE	UG/KG	120
	TOTAL XYLENES	UG/KG	10000
ERS1-SS-C09-G	ACETONE	UG/KG	130
	2-BUTANONE (MEK)	UG/KG	29
	CARBON DISULFIDE	UG/KG	2
	CHLOROETHANE	UG/KG	5
	1,1-DICHLOROETHANE	UG/KG	10
	1,1-DICHLOROETHENE	UG/KG	64
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	4000
	ETHYL BENZENE	UG/KG	15
	METHYLENE CHLORIDE	UG/KG	9
	4-METHYL-2-PENTANONE	UG/KG	16
	STYRENE	UG/KG	49
	TETRACHLOROETHENE	UG/KG	320
	TOLUENE	UG/KG	62
	1,1,1-TRICHLOROETHANE	UG/KG	49
	TRICHLOROETHENE	UG/KG	110
	TOTAL XYLENES	UG/KG	75
ERS1-SS-C10-G	TETRACHLOROETHENE	UG/KG	38000
	TRICHLOROETHENE	UG/KG	740000
ERS1-SS-D02-G	ACETONE	UG/KG	76
	1,1-DICHLOROETHANE	UG/KG	8
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	120
	METHYLENE CHLORIDE	UG/KG	16
	TETRACHLOROETHENE	UG/KG	4
	TOLUENE	UG/KG	16
	1,1,1-TRICHLOROETHANE	UG/KG	33
	TRICHLOROETHENE	UG/KG	200
	TOTAL XYLENES	UG/KG	5
ERS1-SS-D07-GS	ACETONE	UG/KG	31
	1,1-DICHLOROETHANE	UG/KG	5
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	41
	METHYLENE CHLORIDE	UG/KG	7
	1,1,1-TRICHLOROETHANE	UG/KG	14
	TRICHLOROETHENE	UG/KG	90
ERS1-SS-D08-G	ACETONE	UG/KG	22
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	38

"Method Report Summary"

Accession Number: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)

Client Sample Id:	Parameter:	Unit:	Result:
	METHYLENE CHLORIDE	UG/KG	5
	1,1,1-TRICHLOROETHANE	UG/KG	7
	TRICHLOROETHENE	UG/KG	62
ERS1-SS-E03-GS	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	21000
	ETHYL BENZENE	UG/KG	6000
	TETRACHLOROETHENE	UG/KG	15000
	TOLUENE	UG/KG	6000
	1,1,1-TRICHLOROETHANE	UG/KG	43000
	TRICHLOROETHENE	UG/KG	1200
	TOTAL XYLENES	UG/KG	57000
ERS1-SS-E05-G	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	14
	METHYLENE CHLORIDE	UG/KG	4
	TRICHLOROETHENE	UG/KG	36
	TRICHLOROFLUOROMETHANE	UG/KG	2
ERS1-SS-E05-D	1,1-DICHLOROETHANE	UG/KG	18
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	140
	METHYLENE CHLORIDE	UG/KG	7
	TETRACHLOROETHENE	UG/KG	22
	1,1,1-TRICHLOROETHANE	UG/KG	61
	TRICHLOROETHENE	UG/KG	110
ERS1-SB-B01-GS-23	1,1-DICHLOROETHANE	UG/KG	480
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	13000
	ETHYL BENZENE	UG/KG	1500
	TETRACHLOROETHENE	UG/KG	240
	TOLUENE	UG/KG	5200
	1,1,1-TRICHLOROETHANE	UG/KG	1300
	TRICHLOROETHENE	UG/KG	210
	TOTAL XYLENES	UG/KG	7700
ERS1-SB-B01-GS-78	ACETONE	UG/KG	13
	2-BUTANONE (MEK)	UG/KG	51
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	190
	ETHYL BENZENE	UG/KG	2
	METHYLENE CHLORIDE	UG/KG	9
	4-METHYL-2-PENTANONE	UG/KG	86
	1,1,2,2-TETRACHLOROETHANE	UG/KG	4
	TETRACHLOROETHENE	UG/KG	9
	TOLUENE	UG/KG	9
	1,1,1-TRICHLOROETHANE	UG/KG	8
	1,1,2-TRICHLOROETHANE	UG/KG	9
	TRICHLOROETHENE	UG/KG	100
	TOTAL XYLENES	UG/KG	16
ERS1-SB-B02-G-67	1,1-DICHLOROETHANE	UG/KG	2
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	37
	METHYLENE CHLORIDE	UG/KG	6
	4-METHYL-2-PENTANONE	UG/KG	8

"Method Report Summary"

Accession Number: 403231
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)

Client Sample Id:	Parameter:	Unit:	Result:
	TETRACHLOROETHENE	UG/KG	3
	TRICHLOROETHENE	UG/KG	33
ERS1-SB-B03-G-56	ACETONE	UG/KG	20
	2-BUTANONE (MEK)	UG/KG	17
	1,1-DICHLOROETHANE	UG/KG	7
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	220
	METHYLENE CHLORIDE	UG/KG	20
	4-METHYL-2-PENTANONE	UG/KG	20
	STYRENE	UG/KG	3
	TOLUENE	UG/KG	19
	1,1,1-TRICHLOROETHANE	UG/KG	19
	TRICHLOROETHENE	UG/KG	120
	TOTAL XYLENES	UG/KG	6
ERS1-SB-A01-GS-78	ACETONE	UG/KG	43000
	2-BUTANONE (MEK)	UG/KG	15000
	4-METHYL-2-PENTANONE	UG/KG	11000
	STYRENE	UG/KG	480
	TOTAL XYLENES	UG/KG	600
ERS1-SB-A02-GS-23	1,1-DICHLOROETHANE	UG/KG	1
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	43
	TETRACHLOROETHENE	UG/KG	8
	TRICHLOROETHENE	UG/KG	17
ERS1-SB-A03-G-56	ACETONE	UG/KG	13
	2-BUTANONE (MEK)	UG/KG	9
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	37
	4-METHYL-2-PENTANONE	UG/KG	11
	TRICHLOROETHENE	UG/KG	3
ERS1-SB-D01-G-12	ACETONE	UG/KG	73
	2-BUTANONE (MEK)	UG/KG	16
	1,1-DICHLOROETHANE	UG/KG	7
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	23
	METHYLENE CHLORIDE	UG/KG	14
	4-METHYL-2-PENTANONE	UG/KG	4
	TOLUENE	UG/KG	9
	1,1,1-TRICHLOROETHANE	UG/KG	9
	TRICHLOROETHENE	UG/KG	38
ERS1-TB-001-G	ACETONE	UG/L	100
	2-BUTANONE (MEK)	UG/L	140

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: VOLATILES (8240)

Accession:	403231
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477
Project Name:	ENTERPRISE RECOVERY SYSTEMS
Project Location:	BYHALIA, MISSISSIPPI
Department:	ORGANIC/MS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: VOLATILES (8240)

Accession:	403231
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477
Project Name:	ENTERPRISE RECOVERY SYSTEMS
Project Location:	BYHALIA, MISSISSIPPI
Department:	ORGANIC/MS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: A Date Analyzed: 12-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	107	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	97	70-121

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"QC Report"

Title: Low Soil Blank
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	100	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: C Date Analyzed: 10-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	97	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	98	70-121

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"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	105	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: High Soil Blank
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: C Date Analyzed: 11-MAR-94 Date Extracted: 10-MAR-94

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	100
ACROLEIN	UG/KG	ND	1000
ACRYLONITRILE	UG/KG	ND	1000
BENZENE	UG/KG	ND	10
BROMODICHLOROMETHANE	UG/KG	ND	10
BROMOFORM	UG/KG	ND	20
BROMOMETHANE	UG/KG	ND	10
2-BUTANONE (MEK)	UG/KG	ND	30
CARBON DISULFIDE	UG/KG	ND	10
CARBON TETRACHLORIDE	UG/KG	ND	20
CHLOROBENZENE	UG/KG	ND	10
CHLOROETHANE	UG/KG	ND	10
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	50
CHLOROFORM	UG/KG	ND	20
CHLOROMETHANE	UG/KG	ND	20
CHLORODIBROMOMETHANE	UG/KG	ND	50
DIBROMOMETHANE	UG/KG	ND	50
DICHLORODIFLUOROMETHANE	UG/KG	ND	50
1,1-DICHLOROETHANE	UG/KG	ND	10
1,2-DICHLOROETHANE	UG/KG	ND	20
1,1-DICHLOROETHENE	UG/KG	ND	10
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	50
1,2-DICHLOROPROPANE	UG/KG	ND	20
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	10
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	10
1,4-DICHLORO-2-BUTENE	UG/KG	ND	50
ETHANOL	UG/KG	ND	500
ETHYL BENZENE	UG/KG	ND	10
ETHYL METHACRYLATE	UG/KG	ND	50
2-HEXANONE	UG/KG	ND	30
IODOMETHANE	UG/KG	ND	50
METHYLENE CHLORIDE	UG/KG	ND	30
4-METHYL-2-PENTANONE	UG/KG	ND	30
STYRENE	UG/KG	ND	20
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	20
TETRACHLOROETHENE	UG/KG	ND	10
TOLUENE	UG/KG	ND	50
1,1,1-TRICHLOROETHANE	UG/KG	ND	50
1,1,2-TRICHLOROETHANE	UG/KG	ND	20
TRICHLOROETHENE	UG/KG	ND	10
TRICHLOROFLUOROMETHANE	UG/KG	ND	10
1,2,3 TRICHLOROPROPANE	UG/KG	ND	50
VINYL ACETATE	UG/KG	ND	20
VINYL CHLORIDE	UG/KG	ND	10
TOTAL XYLENES	UG/KG	ND	20
BROMOFLUOROBENZENE	%REC/SURR	100	74-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Date 17-Mar-94

"QC Report"

Title: High Soil Blank
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
1,2-DICHLOROETHANE-D4	%REC/SURR	106	70-121
TOLUENE-D8	%REC/SURR	103	81-117
ANALYST	INITIALS	LP	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: B Date Analyzed: 09-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	99	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	92	70-121

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"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	103	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: B Date Analyzed: 13-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	99	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	92	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	106	81-117
ANALYST	INITIALS	LP	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: D Date Analyzed: 10-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	101	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	98	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	98	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: High Soil Blank
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: A Date Analyzed: 11-MAR-94 Date Extracted: 10-MAR-94

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	100
ACROLEIN	UG/KG	ND	1000
ACRYLONITRILE	UG/KG	ND	1000
BENZENE	UG/KG	ND	10
BROMODICHLOROMETHANE	UG/KG	ND	10
BROMOFORM	UG/KG	ND	20
BROMOMETHANE	UG/KG	ND	10
2-BUTANONE (MEK)	UG/KG	ND	30
CARBON DISULFIDE	UG/KG	ND	10
CARBON TETRACHLORIDE	UG/KG	ND	20
CHLOROBENZENE	UG/KG	ND	10
CHLOROETHANE	UG/KG	ND	10
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	50
CHLOROFORM	UG/KG	ND	20
CHLOROMETHANE	UG/KG	ND	20
CHLORODIBROMOMETHANE	UG/KG	ND	50
DIBROMOMETHANE	UG/KG	ND	50
DICHLORODIFLUOROMETHANE	UG/KG	ND	50
1,1-DICHLOROETHANE	UG/KG	ND	10
1,2-DICHLOROETHANE	UG/KG	ND	20
1,1-DICHLOROETHENE	UG/KG	ND	10
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	50
1,2-DICHLOROPROPANE	UG/KG	ND	20
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	10
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	10
1,4-DICHLORO-2-BUTENE	UG/KG	ND	50
ETHANOL	UG/KG	ND	500
ETHYL BENZENE	UG/KG	ND	10
ETHYL METHACRYLATE	UG/KG	ND	50
2-HEXANONE	UG/KG	ND	30
IODOMETHANE	UG/KG	ND	50
METHYLENE CHLORIDE	UG/KG	ND	30
4-METHYL-2-PENTANONE	UG/KG	ND	30
STYRENE	UG/KG	ND	20
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	20
TETRACHLOROETHENE	UG/KG	ND	10
TOLUENE	UG/KG	ND	50
1,1,1-TRICHLOROETHANE	UG/KG	ND	50
1,1,2-TRICHLOROETHANE	UG/KG	ND	20
TRICHLOROETHENE	UG/KG	ND	10
TRICHLOROFLUOROMETHANE	UG/KG	ND	10
1,2,3 TRICHLOROPROPANE	UG/KG	ND	50
VINYL ACETATE	UG/KG	ND	20
VINYL CHLORIDE	UG/KG	ND	10
TOTAL XYLENES	UG/KG	ND	20
BROMOFLUOROBENZENE	%REC/SURR	93	74-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: High Soil Blank
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
1,2-DICHLOROETHANE-D4	%REC/SURR	101	70-121
TOLUENE-D8	%REC/SURR	101	81-117
ANALYST	INITIALS	LP	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: E Date Analyzed: 11-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	107	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	102	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	102	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: A Date Analyzed: 14-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	97	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	99	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	97	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: C Date Analyzed: 14-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	98	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	91	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	105	81-117
ANALYST	INITIALS	DWB	

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Reagent
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

RS Date Analyzed: 12-MAR-94
RSD Date Analyzed: 12-MAR-94

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	46	92	44	88	4	22	70-141
TRICHLOROETHENE	50	<1	40	80	46	92	14	24	71-157
BENZENE	50	<1	48	96	53	106	10	21	74-128
TOLUENE	50	<5	43	86	46	92	7	21	80-127
CHLOROBENZENE	50	<1	44	88	48	96	9	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				98		106			70-121
TOLUENE-D8				98		95			81-117
BROMOFLUOROBENZENE				103		107			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Low Soil Reagent
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

RS Date Analyzed: 09-MAR-94
RSD Date Analyzed: 09-MAR-94

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	49	98	49	98	0	22	70-141
TRICHLOROETHENE	50	<1	49	98	51	102	4	24	71-157
BENZENE	50	<1	55	110	57	114	4	21	74-128
TOLUENE	50	<5	50	100	53	106	6	21	80-127
CHLOROBENZENE	50	<1	50	100	55	110	10	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				99		97			70-121
TOLUENE-D8				104		106			81-117
BROMOFLUOROBENZENE				98		99			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: High Soil Reagent
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

RS Date Analyzed: 11-MAR-94
RSD Date Analyzed: 11-MAR-94

RS Date Extracted: 10-MAR-94
RSD Date Extracted: 10-MAR-94

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	500	<10	370	74	360	72	3	22	70-141
TRICHLOROETHENE	500	<10	380	76	380	76	0	24	71-157
BENZENE	500	<10	380	76	380	76	0	21	74-128
TOLUENE	500	<50	490	98	480	96	2	21	80-127
CHLOROBENZENE	500	<10	470	94	460	92	2	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				97		93			70-121
TOLUENE-D8				104		102			81-117
BROMOFLUOROBENZENE				100		95			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Reagent
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

RS Date Analyzed: 14-MAR-94
RSD Date Analyzed: 14-MAR-94

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	47	94	47	94	0	22	70-141
TRICHLOROETHENE	50	<1	45	90	47	94	4	24	71-157
BENZENE	50	<1	52	104	53	106	2	21	74-128
TOLUENE	50	<5	49	98	52	104	6	21	80-127
CHLOROBENZENE	50	<1	50	100	53	106	6	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				97		104			70-121
TOLUENE-D8				97		98			81-117
BROMOFLUOROBENZENE				87		98			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Low Soil Matrix
Batch: NAS025
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Dry Weight %: 81
Sample Spiked: 403231-23

MS Date Analyzed: 14-MAR-94
MSD Date Analyzed: 14-MAR-94

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	62	<1.2	58	94	58	94	0	22	70-141
TRICHLOROETHENE	62	3.7	52	78	59	89	13	24	71-157
BENZENE	62	<1.2	60	97	69	111	13	21	74-128
TOLUENE	62	<6.2	63	102	68	110	8	21	80-127
CHLOROBENZENE	62	<1.2	60	97	67	108	11	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				103		98			70-121
TOLUENE-D8				104		105			81-117
BROMOFLUOROBENZENE				98		102			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Low Soil Matrix
Batch: NAS024
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Dry Weight %: 81
Sample Spiked: 403231-1

MS Date Analyzed: 11-MAR-94
MSD Date Analyzed: 11-MAR-94

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	62	<1.2	59	95	59	95	0	22	70-141
TRICHLOROETHENE	62	90	130	65*	120	48*	30*	24	71-157
BENZENE	62	<1.2	63	102	62	100	2	21	74-128
TOLUENE	62	<6.2	62	100	64	103	3	21	80-127
CHLOROBENZENE	62	<1.2	60	97	59	95	2	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				106		106			70-121
TOLUENE-D8				105		109			81-117
BROMOFLUOROBENZENE				96		92			74-121

Comments:
* RECOVERY(S) AND RPD(S) OUTSIDE ACCEPTANCE LIMITS DUE TO MATRIX INTERFERENCE.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Low Soil Matrix
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Dry Weight %:
Sample Spiked:

MS Date Analyzed:
MSD Date Analyzed:

MS Date Extracted:
MSD Date Extracted:

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE								22	70-141
TRICHLOROETHENE								24	71-157
BENZENE								21	74-128
TOLUENE								21	80-127
CHLOROBENZENE								21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4									70-121
TOLUENE-D8									81-117
BROMOFLUOROBENZENE									74-121

Comments:
* NO MATRIX SPIKE/MATRIX SPIKE DUPLICATE AVALIABLE DUE TO HIGH DILUTION.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Low Soil Matrix
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Dry Weight %: 80
Sample Spiked: 403232-2

MS Date Analyzed: 15-MAR-94
MSD Date Analyzed: 15-MAR-94

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	63	<1.3	63	100	61	97	3	22	70-141
TRICHLOROETHENE	63	8.8	66	91	66	91	0	24	71-157
BENZENE	63	<1.3	66	105	66	105	0	21	74-128
TOLUENE	63	<6.3	69	110	70	111	1	21	80-127
CHLOROBENZENE	63	<1.3	65	103	64	102	1	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				93		96			70-121
TOLUENE-D8				100		101			81-117
BROMOFLUOROBENZENE				100		100			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
J = THE REPORTED VALUE IS EITHER LESS THAN THE REPORTING LIMIT BUT GREATER THAN ZERO, OR QUANTITATED AS A TIC; THEREFORE, IT IS ESTIMATED.
JJ = REPORTED VALUE IS ESTIMATED DUE TO MATRIX INTERFERENCE.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

LP = LEVERNE PETERSON	RW = RITA WINGO
DWB = DAVID BOWERS	LD = LARRY DILMORE
DB = DENNIS BESON	DC = DAVID CELESTIAL
LL = LANCE LARSON	RB = RAFAEL BARRAZA

PROJECT SAMPLE INSPECTION FORM

Accession #: 403231 Date received: 08-MAR-94

1.	Was there a Chain of Custody?	YES	NO	7.	Are samples correctly preserved for analysis required?	YES	NO
2.	Was Chain of Custody properly relinquished?	YES	NO	8.	Is there sufficient volume for analysis requested?	YES	NO
3.	Were samples received cold? (At 4° or on ice)	YES	NO	9.	Were samples received within holding time?	YES	NO
4.	Were all containers properly labeled and identified?	YES	NO *	10.	Was there headspace greater than ¼" in diameter in volatile bottles?	YES	NO N/A
5.	Were samples received in proper containers for analysis requested?	YES	NO	11.	If sent, were matrix spike bottles returned?	YES	NO N/A
6.	Were all sample containers received intact?	YES	NO				

Tracking Number: 5384553204 Shipped By: FEDEX

Cooler Number: N/S

Out of Control Events and Inspection Comments:

* SAMPLE ERS1-SB-F01-G-78 IS MISLABELLED ERS1-SB01-G-78. I WILL FOLLOW THE CHAIN OF CUSTODY. SAMPLE TIMES MATCH THIS SAMPLE ON C.O.C.

Inspected By: [illegible] Date: 3/8/94 Logged By: [illegible] Date: 3/8/94

WOODWARD-CLYDE CONSULTANTS

CHAIN-OF-CUSTODY RECORD

403231

Sample No.	Matrix	YR:94 DATE MM/DD	Time	Sample Depth From	Sample Depth To	Station Location	Total No. Containers	VOC					
ERS1-SS-B02-GS	So	3/3	1340	0	1	ERS	1	✓					1
ERS1-SS-B05-G	So	3/3	1344	0	1	ERS	1	✓					2
ERS1-SS-A04-GS	So	3/3	1355	0	1	ERS	1	✓					3
ERS1-SS-A09-G	So	3/3	1403	0	1	ERS	1	✓					4
ERS1-SS-A08-G	So	3/3	~~1303~~ 1407	0	1	ERS	1	✓					5
ERS1-SS-A13-G	So	3/3	1412	0	1	ERS	1	✓					6
ERS1-SS-C05-GS	So	3/3	1418	0	1	ERS	1	✓					7
ERS1-SS-C09-G	So	3/3	1435	0	1	ERS	1	✓					8
ERS1-SS-C10-G	So	3/3	1440	0	1	ERS	1	✓					9
ERS1-SS-D02-G	So	3/3	1450	0	1	ERS	1	✓					10
ERS1-SS-D07-GS	So	3/3	1458	0	1	ERS	1	✓					11
ERS1-SS-D08-G	So	3/3	1527	0	1	ERS	1	✓					1
ERS1-SS-E03-GS	So	3/3	1540	0	1	ERS	1	✓					1
ERS1-SS-E05-G	So	3/3	1545	0	1	ERS	1	✓					1
ERS1-SS-E05-D	So	3/3	1545	0	1	ERS	1	✓					12

SAMPLE COLLECTION

PROJECT NO. AND NAME: 93B477 ENTERPRISE RECOVERY SYSTEMS
LOCATION OF SAMPLE: BYHALIA, MISSISSIPPI
TEAM LEADER: S. KRUL TELEPHONE: (504) 751-1873
COMPANY NAME: WOODWARD-CLYDE CONSULTANTS (WCC)
ADDRESS: 2822 ONEAL LANE, BATON ROUGE, LOUISIANA
WITNESS: Jimmy Rayburn COMPANY NAME: WCC

FIELD INFORMATION

TYPES OF SAMPLES: (MATRIX) LIQUID (LI) WIPE (WI) FISH (FI) SEDIMENT (SE) SLUDGE (SL) OTHER (SPECIFY) SOIL (SO)
FIELD NOTES: Samples stored + shipped on ice
TRANSPORTER: Fed Ex AIRBILL/INVOICE: 5384553204 DESTINATION: ATI Lab, Pensacola, FL

SAMPLE TRANSFER (Original must be retained with sample at all times)

		RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1	NAME:	Steve Krul	3/7/94	Christa Johnson	3/8/94 1723
	COMPANY:	WCC	1200	ATI-Pensacola	
2	NAME:				
	COMPANY:				
3	NAME:				
	COMPANY:				

TERMINATION OF CHAIN-OF-CUSTODY

AUTHORIZED BY: DATE: TIME:
COMPANY NAME:
SAMPLE DISPOSITION: STORAGE DISPOSAL OTHER

2 of 2

WOODWARD-CLYDE CONSULTANTS

CHAIN-OF-CUSTODY RECORD

403231

Sample No.	Matrix	YR:94 DATE MM/DD	Time	Sample Depth From	Sample Depth To	Station Location	Total No. Containers	VOC					
ERS1-SB-B01-GS-23	So	3/3	1725	2	3	ERS	1	✓					1
ERS1-SB-B01-GS-78	So	3/3	1730	7	8	ERS	1	✓					1
ERS1-SB-B02-G-67	So	3/4	1050	6	7	ERS	1	✓					1
ERS1-SB-B03-G-56	So	3/4	1055	5	6	ERS	1	✓					1
ERS1-RS-001-G	Li	3/4	1220	–	–	ERS	2	✓					2
ERS1-SB-A01-GS-78	So	3/4	1455	7	8	ERS	1	✓					2
ERS1-SB-A02-GS-23	So	3/4	1500	2	3	ERS	1	✓					2
ERS1-SB-A03-G-56	So	3/4	1725	5	6	ERS	1	✓					2
ERS1-SB-D01-G-12	So	3/4	1730	1	2	ERS	1	✓					2
ERS1-RS-002-G	Li	3/4	1755	–	–	ERS	2	✓					2
ERS1-TB-001-G	Li	3/4	1810	–	–	ERS	2	✓					2

SAMPLE COLLECTION

PROJECT NO. AND NAME: 93B477 ENTERPRISE RECOVERY SYSTEMS
LOCATION OF SAMPLE: BYHALIA, MISSISSIPPI
TEAM LEADER: S. KRUL TELEPHONE: (504) 751-1873
COMPANY NAME: WOODWARD-CLYDE CONSULTANTS (WCC)
ADDRESS: 2822 ONEAL LANE, BATON ROUGE, LOUISIANA
WITNESS: Jimmy Rayfu COMPANY NAME: WCC

FIELD INFORMATION

TYPES OF SAMPLES: (MATRIX) LIQUID (LI) WIPE (WI) FISH (FI) SEDIMENT (SE) SLUDGE (SL) OTHER (SPECIFY) SOIL (SO)
FIELD NOTES: Samples stored + shipped on ice
TRANSPORTER: Fed Ex AIRBILL/INVOICE: 5384553204 DESTINATION: ATI Lab, Pensacola, FL

SAMPLE TRANSFER (Original must be retained with sample at all times)

		RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1	NAME:	Steve Krul	3/7/94	[illegible]	3/8/94 1223
	COMPANY:	WCC	1200		
2	NAME:				
	COMPANY:				
3	NAME:				
	COMPANY:				

TERMINATION OF CHAIN-OF-CUSTODY

AUTHORIZED BY: DATE: TIME:
COMPANY NAME:
SAMPLE DISPOSITION: STORAGE DISPOSAL OTHER

AnalyticalTechnologies,Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

March 21, 1994

INVOICE NUMBER 889343
LAB CODE 160

WOODWARD-CLYDE CONSULTANTS

460 BRIARWOOD DRIVE
JACKSON , MS 39206-0000

Accession #: 403232
Client Name: WOODWARD-CLYDE CONSULTANTS
Office: JACKSON, MISSISSIPPI
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Num: 93B477
Project Location: BYHALIA, MISSISSIPPI
Report Sent To: DEJONETTE KING
P. O. Number: CONTRACT NO. ATI-1
Billing Client: 22227

Samples	Test	Matrix	Description	Actual Price	Extended Price
2	8240	AQ	VOLATILES (8240)	160.00	320.00
9	8240	NA	VOLATILES (8240)	160.00	1,440.00
			Total:		$1,760.00

NET 30 DAYS
1 1/2 % Finance Charge on Balance Due over 30 Days

INVOICE ORIGINAL COPY

****
* REMIT PAYMENT TO: *
* Analytical Technologies, Inc. *
* P.O. Box 840436 *
* Dallas, TX 75284-0436 *
****

Analytical Technologies, Inc. 11 East Olive Road · Pensacola, Florida 32514 (904) 474-1001

SIGNATURE PAGE

Reviewed by: _____
ATI Project Manager

Client:	WOODWARD-CLYDE CONSULTANTS JACKSON, MISSISSIPPI
Project Name:	ENTERPRISE RECOVERY SYSTEMS
Project Number:	93B477
Project Location:	BYHALIA, MISSISSIPPI
Accession Number:	403232
Project Manager:	DEJONETTE KING
Sampled By:	ANNA SAUCIER

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: VOLATILES (8240)

Accession:	403232
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477
Project Name:	ENTERPRISE RECOVERY SYSTEMS
Project Location:	BYHALIA, MISSISSIPPI
Department:	ORGANIC/MS

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 001
Client Sample Id: ERS1-SB-D02-G-78
Sample Date/Time: 05-MAR-94 1030
Received Date: 08-MAR-94

Batch: NAS026
Blank: A
Dry Weight %: 80
Extraction Date: N/A
Analysis Date: 14-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	23	6	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	9	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	11	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	45	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 001
Client Sample Id: ERS1-SB-D02-G-78
Sample Date/Time: 05-MAR-94 1030
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	3	
BROMOFLUOROBENZENE	%REC/SURR	91	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	102	70-121	
TOLUENE-D8	%REC/SURR	99	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 002
Client Sample Id: ERS1-SB-D03-G-01
Sample Date/Time: 05-MAR-94 1035
Received Date: 08-MAR-94

Batch: NAS026
Blank: A
Dry Weight %: 80
Extraction Date: N/A
Analysis Date: 15-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	44	13	
ACROLEIN	UG/KG	ND	130	
ACRYLONITRILE	UG/KG	ND	130	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	3	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	3	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	3	
CHLOROMETHANE	UG/KG	ND	3	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	3	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	6	
1,2-DICHLOROPROPANE	UG/KG	ND	3	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	5	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	3	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	3	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	3	
TRICHLOROETHENE	UG/KG	7	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 002
Client Sample Id: ERS1-SB-D03-G-01
Sample Date/Time: 05-MAR-94 1035
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	3	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	3	
BROMOFLUOROBENZENE	%REC/SURR	102	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	108	70-121	
TOLUENE-D8	%REC/SURR	98	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 003
Client Sample Id: ERS1-SB-E01-G-78
Sample Date/Time: 05-MAR-94 1345
Received Date: 08-MAR-94

Batch: NAS026
Blank: B
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 15-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	7	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	4	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	39	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	ND	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 003
Client Sample Id: ERS1-SB-E01-G-78
Sample Date/Time: 05-MAR-94 1345
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	109	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	99	70-121	
TOLUENE-D8	%REC/SURR	100	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 004
Client Sample Id: ERS1-SB-E02-G-01
Sample Date/Time: 05-MAR-94 1350
Received Date: 08-MAR-94

Batch: NAS026
Blank: A
Dry Weight %: 84
Extraction Date: N/A
Analysis Date: 15-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	9	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	130	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	4	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	14	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	24	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	24	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 004
Client Sample Id: ERS1-SB-E02-G-01
Sample Date/Time: 05-MAR-94 1350
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	96	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	101	70-121	
TOLUENE-D8	%REC/SURR	102	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 005
Client Sample Id: ERS1-SB-E03-G-01
Sample Date/Time: 05-MAR-94 1600
Received Date: 08-MAR-94

Batch: NAS026
Blank: B
Dry Weight %: 86
Extraction Date: N/A
Analysis Date: 15-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	3	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	29	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	4	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	3	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	ND	3	
4-METHYL-2-PENTANONE	UG/KG	ND	3	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	16	1	
TOLUENE	UG/KG	6	6	
1,1,1-TRICHLOROETHANE	UG/KG	7	6	
1,1,2-TRICHLOROETHANE	UG/KG	5	2	
TRICHLOROETHENE	UG/KG	72	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 005
Client Sample Id: ERS1-SB-E03-G-01
Sample Date/Time: 05-MAR-94 1600
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	38	2	
BROMOFLUOROBENZENE	%REC/SURR	114	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	100	70-121	
TOLUENE-D8	%REC/SURR	102	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 006
Client Sample Id: ERS1-SB-C01-GS-78
Sample Date/Time: 05-MAR-94 1605
Received Date: 08-MAR-94

Batch: VIS031
Blank: B
Dry Weight %: 80
Extraction Date: 10-MAR-94
Analysis Date: 11-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	19000	13000	
ACROLEIN	UG/KG	ND	130000	
ACRYLONITRILE	UG/KG	ND	130000	
BENZENE	UG/KG	ND	1300	
BROMODICHLOROMETHANE	UG/KG	ND	1300	
BROMOFORM	UG/KG	ND	2500	
BROMOMETHANE	UG/KG	ND	1300	
2-BUTANONE (MEK)	UG/KG	130000	3800	
CARBON DISULFIDE	UG/KG	ND	1300	
CARBON TETRACHLORIDE	UG/KG	ND	2500	
CHLOROBENZENE	UG/KG	ND	1300	
CHLOROETHANE	UG/KG	ND	1300	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6300	
CHLOROFORM	UG/KG	ND	2500	
CHLOROMETHANE	UG/KG	ND	2500	
CHLORODIBROMOMETHANE	UG/KG	ND	6300	
DIBROMOMETHANE	UG/KG	ND	6300	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6300	
1,1-DICHLOROETHANE	UG/KG	ND	1300	
1,2-DICHLOROETHANE	UG/KG	ND	2500	
1,1-DICHLOROETHENE	UG/KG	ND	1300	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	6300	
1,2-DICHLOROPROPANE	UG/KG	ND	2500	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1300	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1300	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6300	
ETHYL BENZENE	UG/KG	ND	1300	
ETHYL METHACRYLATE	UG/KG	ND	6300	
2-HEXANONE	UG/KG	ND	3800	
IODOMETHANE	UG/KG	ND	6300	
METHYLENE CHLORIDE	UG/KG	ND	3800	
4-METHYL-2-PENTANONE	UG/KG	85000	3800	
STYRENE	UG/KG	ND	2500	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2500	
TETRACHLOROETHENE	UG/KG	ND	1300	
TOLUENE	UG/KG	ND	6300	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6300	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2500	
TRICHLOROETHENE	UG/KG	ND	1300	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1300	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 006
Client Sample Id: ERS1-SB-C01-GS-78
Sample Date/Time: 05-MAR-94 1605
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6300	
VINYL ACETATE	UG/KG	ND	2500	
VINYL CHLORIDE	UG/KG	ND	1300	
TOTAL XYLENES	UG/KG	3800	2500	
BROMOFLUOROBENZENE	%REC/SURR	D*	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	D*	70-121	
TOLUENE-D8	%REC/SURR	D*	81-117	
ANALYST	INITIALS	LP		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 007
Client Sample Id: ERS1-SB-C02-GS-67
Sample Date/Time: 06-MAR-94 1035
Received Date: 08-MAR-94

Batch: NAS026
Blank: C
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 16-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	ND	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	ND	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	12	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	ND	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	ND	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	4	4	
4-METHYL-2-PENTANONE	UG/KG	ND	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	ND	1	
TRICHLOROFLUOROMETHANE	UG/KG	41	1	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 007
Client Sample Id: ERS1-SB-C02-GS-67
Sample Date/Time: 06-MAR-94 1035
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	105	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	101	70-121	
TOLUENE-D8	%REC/SURR	99	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 008
Client Sample Id: ERS1-SB-C03-G-01
Sample Date/Time: 06-MAR-94 1040
Received Date: 08-MAR-94

Batch: NAS026
Blank: C
Dry Weight %: 84
Extraction Date: N/A
Analysis Date: 16-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	50	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	20	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	7	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	6	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	16	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	5	4	
4-METHYL-2-PENTANONE	UG/KG	260	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	12	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 008
Client Sample Id: ERS1-SB-C03-G-01
Sample Date/Time: 06-MAR-94 1040
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	54	2	
BROMOFLUOROBENZENE	%REC/SURR	108	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	102	70-121	
TOLUENE-D8	%REC/SURR	102	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 009
Client Sample Id: ERS1-SB-C03-D-01
Sample Date/Time: 06-MAR-94 1040
Received Date: 08-MAR-94

Batch: NAS026
Blank: C
Dry Weight %: 82
Extraction Date: N/A
Analysis Date: 16-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/KG	130	12	
ACROLEIN	UG/KG	ND	120	
ACRYLONITRILE	UG/KG	ND	120	
BENZENE	UG/KG	ND	1	
BROMODICHLOROMETHANE	UG/KG	ND	1	
BROMOFORM	UG/KG	ND	2	
BROMOMETHANE	UG/KG	ND	1	
2-BUTANONE (MEK)	UG/KG	37	4	
CARBON DISULFIDE	UG/KG	ND	1	
CARBON TETRACHLORIDE	UG/KG	ND	2	
CHLOROBENZENE	UG/KG	ND	1	
CHLOROETHANE	UG/KG	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	6	
CHLOROFORM	UG/KG	ND	2	
CHLOROMETHANE	UG/KG	ND	2	
CHLORODIBROMOMETHANE	UG/KG	ND	6	
DIBROMOMETHANE	UG/KG	ND	6	
DICHLORODIFLUOROMETHANE	UG/KG	ND	6	
1,1-DICHLOROETHANE	UG/KG	ND	1	
1,2-DICHLOROETHANE	UG/KG	ND	2	
1,1-DICHLOROETHENE	UG/KG	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	6	
1,2-DICHLOROPROPANE	UG/KG	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1	
1,4-DICHLORO-2-BUTENE	UG/KG	ND	6	
ETHYL BENZENE	UG/KG	9	1	
ETHYL METHACRYLATE	UG/KG	ND	6	
2-HEXANONE	UG/KG	11	4	
IODOMETHANE	UG/KG	ND	6	
METHYLENE CHLORIDE	UG/KG	ND	4	
4-METHYL-2-PENTANONE	UG/KG	150	4	
STYRENE	UG/KG	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2	
TETRACHLOROETHENE	UG/KG	ND	1	
TOLUENE	UG/KG	ND	6	
1,1,1-TRICHLOROETHANE	UG/KG	ND	6	
1,1,2-TRICHLOROETHANE	UG/KG	ND	2	
TRICHLOROETHENE	UG/KG	6	1	
TRICHLOROFLUOROMETHANE	UG/KG	ND	1	

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: SOIL
QC Level: II

Lab Id: 009
Client Sample Id: ERS1-SB-C03-D-01
Sample Date/Time: 06-MAR-94 1040
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/KG	ND	6	
VINYL ACETATE	UG/KG	ND	2	
VINYL CHLORIDE	UG/KG	ND	1	
TOTAL XYLENES	UG/KG	76	2	
BROMOFLUOROBENZENE	%REC/SURR	111	74-121	
1,2-DICHLOROETHANE-D4	%REC/SURR	96	70-121	
TOLUENE-D8	%REC/SURR	99	81-117	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 010
Client Sample Id: ERS1-RS-004-G
Sample Date/Time: 06-MAR-94 1115
Received Date: 08-MAR-94

Batch: NAS026
Blank: C
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 16-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
ACROLEIN	UG/L	ND	100	
ACRYLONITRILE	UG/L	ND	100	
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	1	
2-BUTANONE (MEK)	UG/L	ND	3	
CARBON DISULFIDE	UG/L	ND	1	
CARBON TETRACHLORIDE	UG/L	ND	2	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	2	
CHLORODIBROMOMETHANE	UG/L	ND	5	
DIBROMOMETHANE	UG/L	ND	5	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	2	
1,1-DICHLOROETHENE	UG/L	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5	
1,2-DICHLOROPROPANE	UG/L	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
1,4-DICHLORO-2-BUTENE	UG/L	ND	5	
ETHYL BENZENE	UG/L	ND	1	
ETHYL METHACRYLATE	UG/L	ND	5	
2-HEXANONE	UG/L	ND	3	
IODOMETHANE	UG/L	ND	5	
METHYLENE CHLORIDE	UG/L	ND	3	
4-METHYL-2-PENTANONE	UG/L	ND	3	
STYRENE	UG/L	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2	
TETRACHLOROETHENE	UG/L	ND	1	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 010
Client Sample Id: ERS1-RS-004-G
Sample Date/Time: 06-MAR-94 1115
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/L	ND	5	
VINYL ACETATE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
TOTAL XYLENES	UG/L	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	106	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	92	76-114	
TOLUENE-D8	%REC/SURR	101	88-115	
ANALYST	INITIALS	DWB		

Comments:

Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 011
Client Sample Id: ERS1-RS-003-G
Sample Date/Time: 05-MAR-94 1625
Received Date: 08-MAR-94

Batch: NAS026
Blank: C
Dry Weight %: N/A
Extraction Date: N/A
Analysis Date: 16-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
ACETONE	UG/L	ND	10	
ACROLEIN	UG/L	ND	100	
ACRYLONITRILE	UG/L	ND	100	
BENZENE	UG/L	ND	1	
BROMODICHLOROMETHANE	UG/L	ND	1	
BROMOFORM	UG/L	ND	2	
BROMOMETHANE	UG/L	ND	1	
2-BUTANONE (MEK)	UG/L	ND	3	
CARBON DISULFIDE	UG/L	ND	1	
CARBON TETRACHLORIDE	UG/L	ND	2	
CHLOROBENZENE	UG/L	ND	1	
CHLOROETHANE	UG/L	ND	1	
2-CHLOROETHYLVINYL ETHER	UG/L	ND	5	
CHLOROFORM	UG/L	ND	2	
CHLOROMETHANE	UG/L	ND	2	
CHLORODIBROMOMETHANE	UG/L	ND	5	
DIBROMOMETHANE	UG/L	ND	5	
DICHLORODIFLUOROMETHANE	UG/L	ND	5	
1,1-DICHLOROETHANE	UG/L	ND	1	
1,2-DICHLOROETHANE	UG/L	ND	2	
1,1-DICHLOROETHENE	UG/L	ND	1	
TOTAL 1,2-DICHLOROETHYLENE	UG/L	ND	5	
1,2-DICHLOROPROPANE	UG/L	ND	2	
CIS-1,3-DICHLOROPROPENE	UG/L	ND	1	
TRANS-1,3-DICHLOROPROPENE	UG/L	ND	1	
1,4-DICHLORO-2-BUTENE	UG/L	ND	5	
ETHYL BENZENE	UG/L	ND	1	
ETHYL METHACRYLATE	UG/L	ND	5	
2-HEXANONE	UG/L	ND	3	
IODOMETHANE	UG/L	ND	5	
METHYLENE CHLORIDE	UG/L	ND	3	
4-METHYL-2-PENTANONE	UG/L	ND	3	
STYRENE	UG/L	ND	2	
1,1,2,2-TETRACHLOROETHANE	UG/L	ND	2	
TETRACHLOROETHENE	UG/L	ND	1	
TOLUENE	UG/L	ND	5	
1,1,1-TRICHLOROETHANE	UG/L	ND	5	
1,1,2-TRICHLOROETHANE	UG/L	ND	2	
TRICHLOROETHENE	UG/L	ND	1	
TRICHLOROFLUOROMETHANE	UG/L	ND	1	

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Accession: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A
Matrix: LIQUID
QC Level: II

Lab Id: 011
Client Sample Id: ERS1-RS-003-G
Sample Date/Time: 05-MAR-94 1625
Received Date: 08-MAR-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
1,2,3 TRICHLOROPROPANE	UG/L	ND	5	
VINYL ACETATE	UG/L	ND	2	
VINYL CHLORIDE	UG/L	ND	1	
TOTAL XYLENES	UG/L	ND	2	
BROMOFLUOROBENZENE	%REC/SURR	113	86-115	
1,2-DICHLOROETHANE-D4	%REC/SURR	97	76-114	
TOLUENE-D8	%REC/SURR	100	88-115	
ANALYST	INITIALS	DWB		

Comments:

"Method Report Summary"

Accession Number: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)

Client Sample Id:	Parameter:	Unit:	Result:
ERS1-SB-D02-G-78	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	23
	METHYLENE CHLORIDE	UG/KG	9
	1,1,1-TRICHLOROETHANE	UG/KG	11
	TRICHLOROETHENE	UG/KG	45
ERS1-SB-D03-G-01	ACETONE	UG/KG	44
	METHYLENE CHLORIDE	UG/KG	5
	TRICHLOROETHENE	UG/KG	7
ERS1-SB-E01-G-78	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	7
	METHYLENE CHLORIDE	UG/KG	4
	TETRACHLOROETHENE	UG/KG	39
ERS1-SB-E02-G-01	1,1-DICHLOROETHANE	UG/KG	9
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	130
	METHYLENE CHLORIDE	UG/KG	4
	TETRACHLOROETHENE	UG/KG	14
	1,1,1-TRICHLOROETHANE	UG/KG	24
	TRICHLOROETHENE	UG/KG	24
ERS1-SB-E03-G-01	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	29
	ETHYL BENZENE	UG/KG	4
	TETRACHLOROETHENE	UG/KG	16
	TOLUENE	UG/KG	6
	1,1,1-TRICHLOROETHANE	UG/KG	7
	1,1,2-TRICHLOROETHANE	UG/KG	5
	TRICHLOROETHENE	UG/KG	72
	TOTAL XYLENES	UG/KG	38
ERS1-SB-C01-GS-78	ACETONE	UG/KG	19000
	2-BUTANONE (MEK)	UG/KG	130000
	4-METHYL-2-PENTANONE	UG/KG	85000
	TOTAL XYLENES	UG/KG	3800
ERS1-SB-C02-GS-67	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	12
	METHYLENE CHLORIDE	UG/KG	4
	TRICHLOROFLUOROMETHANE	UG/KG	41
ERS1-SB-C03-G-01	ACETONE	UG/KG	50
	2-BUTANONE (MEK)	UG/KG	20
	TOTAL 1,2-DICHLOROETHYLENE	UG/KG	7
	ETHYL BENZENE	UG/KG	6
	2-HEXANONE	UG/KG	16
	METHYLENE CHLORIDE	UG/KG	5
	4-METHYL-2-PENTANONE	UG/KG	260
	TRICHLOROETHENE	UG/KG	12
	TOTAL XYLENES	UG/KG	54
ERS1-SB-C03-D-01	ACETONE	UG/KG	130
	2-BUTANONE (MEK)	UG/KG	37
	ETHYL BENZENE	UG/KG	9
	2-HEXANONE	UG/KG	11

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"Method Report Summary"

Accession Number: 403232
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477
Project Name: ENTERPRISE RECOVERY SYSTEMS
Project Location: BYHALIA, MISSISSIPPI
Test: VOLATILES (8240)

Client Sample Id:	Parameter:	Unit:	Result:
	4-METHYL-2-PENTANONE	UG/KG	150
	TRICHLOROETHENE	UG/KG	6
	TOTAL XYLENES	UG/KG	76

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: VOLATILES (8240)

Accession:	403232
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477
Project Name:	ENTERPRISE RECOVERY SYSTEMS
Project Location:	BYHALIA, MISSISSIPPI
Department:	ORGANIC/MS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: A Date Analyzed: 14-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	97	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	99	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	97	81-117
ANALYST	INITIALS	DWB	

Comments:

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: B Date Analyzed: 15-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	106	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	96	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	100	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: High Soil Blank
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: B Date Analyzed: 11-MAR-94 Date Extracted: 10-MAR-94

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	100
ACROLEIN	UG/KG	ND	1000
ACRYLONITRILE	UG/KG	ND	1000
BENZENE	UG/KG	ND	10
BROMODICHLOROMETHANE	UG/KG	ND	10
BROMOFORM	UG/KG	ND	20
BROMOMETHANE	UG/KG	ND	10
2-BUTANONE (MEK)	UG/KG	ND	30
CARBON DISULFIDE	UG/KG	ND	10
CARBON TETRACHLORIDE	UG/KG	ND	20
CHLOROBENZENE	UG/KG	ND	10
CHLOROETHANE	UG/KG	ND	10
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	50
CHLOROFORM	UG/KG	ND	20
CHLOROMETHANE	UG/KG	ND	20
CHLORODIBROMOMETHANE	UG/KG	ND	50
DIBROMOMETHANE	UG/KG	ND	50
DICHLORODIFLUOROMETHANE	UG/KG	ND	50
1,1-DICHLOROETHANE	UG/KG	ND	10
1,2-DICHLOROETHANE	UG/KG	ND	20
1,1-DICHLOROETHENE	UG/KG	ND	10
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	50
1,2-DICHLOROPROPANE	UG/KG	ND	20
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	10
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	10
1,4-DICHLORO-2-BUTENE	UG/KG	ND	50
ETHANOL	UG/KG	ND	500
ETHYL BENZENE	UG/KG	ND	10
ETHYL METHACRYLATE	UG/KG	ND	50
2-HEXANONE	UG/KG	ND	30
IODOMETHANE	UG/KG	ND	50
METHYLENE CHLORIDE	UG/KG	ND	30
4-METHYL-2-PENTANONE	UG/KG	ND	30
STYRENE	UG/KG	ND	20
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	20
TETRACHLOROETHENE	UG/KG	ND	10
TOLUENE	UG/KG	ND	50
1,1,1-TRICHLOROETHANE	UG/KG	ND	50
1,1,2-TRICHLOROETHANE	UG/KG	ND	20
TRICHLOROETHENE	UG/KG	ND	10
TRICHLOROFLUOROMETHANE	UG/KG	ND	10
1,2,3 TRICHLOROPROPANE	UG/KG	ND	50
VINYL ACETATE	UG/KG	ND	20
VINYL CHLORIDE	UG/KG	ND	10
TOTAL XYLENES	UG/KG	ND	20
BROMOFLUOROBENZENE	%REC/SURR	95	74-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: High Soil Blank
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
1,2-DICHLOROETHANE-D4	%REC/SURR	105	70-121
TOLUENE-D8	%REC/SURR	97	81-117
ANALYST	INITIALS	LP	

Comments:

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Blank Id: C Date Analyzed: 15-MAR-94 Date Extracted: N/A

Parameters:	Units:	Results:	Reporting Limits:
ACETONE	UG/KG	ND	10
ACROLEIN	UG/KG	ND	100
ACRYLONITRILE	UG/KG	ND	100
BENZENE	UG/KG	ND	1
BROMODICHLOROMETHANE	UG/KG	ND	1
BROMOFORM	UG/KG	ND	2
BROMOMETHANE	UG/KG	ND	1
2-BUTANONE (MEK)	UG/KG	ND	3
CARBON DISULFIDE	UG/KG	ND	1
CARBON TETRACHLORIDE	UG/KG	ND	2
CHLOROBENZENE	UG/KG	ND	1
CHLOROETHANE	UG/KG	ND	1
2-CHLOROETHYLVINYL ETHER	UG/KG	ND	5
CHLOROFORM	UG/KG	ND	2
CHLOROMETHANE	UG/KG	ND	2
CHLORODIBROMOMETHANE	UG/KG	ND	5
DIBROMOMETHANE	UG/KG	ND	5
DICHLORODIFLUOROMETHANE	UG/KG	ND	5
1,1-DICHLOROETHANE	UG/KG	ND	1
1,2-DICHLOROETHANE	UG/KG	ND	2
1,1-DICHLOROETHENE	UG/KG	ND	1
TOTAL 1,2-DICHLOROETHYLENE	UG/KG	ND	5
1,2-DICHLOROPROPANE	UG/KG	ND	2
CIS-1,3-DICHLOROPROPENE	UG/KG	ND	1
TRANS-1,3-DICHLOROPROPENE	UG/KG	ND	1
1,4-DICHLORO-2-BUTENE	UG/KG	ND	5
ETHYL BENZENE	UG/KG	ND	1
ETHYL METHACRYLATE	UG/KG	ND	5
2-HEXANONE	UG/KG	ND	3
IODOMETHANE	UG/KG	ND	5
METHYLENE CHLORIDE	UG/KG	ND	3
4-METHYL-2-PENTANONE	UG/KG	ND	3
STYRENE	UG/KG	ND	2
1,1,2,2-TETRACHLOROETHANE	UG/KG	ND	2
TETRACHLOROETHENE	UG/KG	ND	1
TOLUENE	UG/KG	ND	5
1,1,1-TRICHLOROETHANE	UG/KG	ND	5
1,1,2-TRICHLOROETHANE	UG/KG	ND	2
TRICHLOROETHENE	UG/KG	ND	1
TRICHLOROFLUOROMETHANE	UG/KG	ND	1
1,2,3 TRICHLOROPROPANE	UG/KG	ND	5
VINYL ACETATE	UG/KG	ND	2
VINYL CHLORIDE	UG/KG	ND	1
TOTAL XYLENES	UG/KG	ND	2
BROMOFLUOROBENZENE	%REC/SURR	106	74-121
1,2-DICHLOROETHANE-D4	%REC/SURR	91	70-121

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Blank
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Parameters:	Units:	Results:	Reporting Limits:
TOLUENE-D8	%REC/SURR	99	81-117
ANALYST	INITIALS	DWB	

Comments:

"QC Report"

Title: Low Soil Reagent
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

RS Date Analyzed: 14-MAR-94
RSD Date Analyzed: 14-MAR-94

RS Date Extracted: N/A
RSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	50	<1	47	94	47	94	0	22	70-141
TRICHLOROETHENE	50	<1	45	90	47	94	4	24	71-157
BENZENE	50	<1	52	104	53	106	2	21	74-128
TOLUENE	50	<5	49	98	52	104	6	21	80-127
CHLOROBENZENE	50	<1	50	100	53	106	6	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				97		104			70-121
TOLUENE-D8				97		98			81-117
BROMOFLUOROBENZENE				87		98			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: High Soil Reagent
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

RS Date Analyzed: 11-MAR-94
RSD Date Analyzed: 11-MAR-94

RS Date Extracted: 10-MAR-94
RSD Date Extracted: 10-MAR-94

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	500	<10	370	74	360	72	3	22	70-141
TRICHLOROETHENE	500	<10	380	76	380	76	0	24	71-157
BENZENE	500	<10	380	76	380	76	0	21	74-128
TOLUENE	500	<50	490	98	480	96	2	21	80-127
CHLOROBENZENE	500	<10	470	94	460	92	2	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				97		93			70-121
TOLUENE-D8				104		102			81-117
BROMOFLUOROBENZENE				100		95			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Low Soil Matrix
Batch: NAS026
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Dry Weight %: 80
Sample Spiked: 403232-2

MS Date Analyzed: 15-MAR-94
MSD Date Analyzed: 15-MAR-94

MS Date Extracted: N/A
MSD Date Extracted: N/A

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE	63	<1.3	63	100	61	97	3	22	70-141
TRICHLOROETHENE	63	8.8	66	91	66	91	0	24	71-157
BENZENE	63	<1.3	66	105	66	105	0	21	74-128
TOLUENE	63	<6.3	69	110	70	111	1	21	80-127
CHLOROBENZENE	63	<1.3	65	103	64	102	1	21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4				93		96			70-121
TOLUENE-D8				100		101			81-117
BROMOFLUOROBENZENE				100		100			74-121

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

"QC Report"

Title: Low Soil Matrix
Batch: VIS031
Analysis Method: 8240 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: N/A

Dry Weight %:
Sample Spiked:

MS Date Analyzed:
MSD Date Analyzed:

MS Date Extracted:
MSD Date Extracted:

Parameters:	Spike Added	Sample Conc	MS Conc	MS %Rec	MSD Conc	MSD %Rec	RPD	RPD Lmts	Rec Lmts
1,1-DICHLOROETHENE								22	70-141
TRICHLOROETHENE								24	71-157
BENZENE								21	74-128
TOLUENE								21	80-127
CHLOROBENZENE								21	78-127
Surrogates:									
1,2-DICHLOROETHANE-D4									70-121
TOLUENE-D8									81-117
BROMOFLUOROBENZENE									74-121

Comments:
* NO MATRIX SPIKE/MATRIX SPIKE DUPLICATE AVALIABLE DUE TO HIGH DILUTION.

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. < = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
J = THE REPORTED VALUE IS EITHER LESS THAN THE REPORTING LIMIT BUT GREATER THAN ZERO, OR QUANTITATED AS A TIC; THEREFORE, IT IS ESTIMATED.
JJ = REPORTED VALUE IS ESTIMATED DUE TO MATRIX INTERFERENCE.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

LP = LEVERNE PETERSON	RW = RITA WINGO
DWB = DAVID BOWERS	LD = LARRY DILMORE
DB = DENNIS BESON	DC = DAVID CELESTIAL
LL = LANCE LARSON	RB = RAFAEL BARRAZA

PROJECT SAMPLE INSPECTION FORM

Accession #: 403232 Date received: 08-MAR-94

1.	Was there a Chain of Custody?	YES	NO	7.	Are samples correctly preserved for analysis required?	YES	NO
2.	Was Chain of Custody properly relinquished?	YES	NO	8.	Is there sufficient volume for analysis requested?	YES	NO
3.	Were samples received cold? (At 4° or on ice)	YES	NO	9.	Were samples received within holding time?	YES	NO
4.	Were all containers properly labeled and identified?	YES	NO	10.	Was there headspace greater than ¼" in diameter in volatile bottles?	YES	NO	N/A
5.	Were samples received in proper containers for analysis requested?	YES	NO	11.	If sent, were matrix spike bottles returned?	YES	NO	N/A
6.	Were all sample containers received intact?	YES	NO				

Tracking Number: 5384553204 Shipped By: FEDEX

Cooler Number: N/S

Out of Control Events and Inspection Comments:

COC says client is WWC Baton Rouge, A. Eversull of WWC Jackson is project manager, report will go there per Andy Eversull, 3/9/94, JM. INFORMATION ON C.O.C. WAS SUPPLIED BY PM.

Inspected By: AG Date: 3/8/94 Logged By: AG Date: 3/8/94

WOODWARD-CLYDE CONSULTANTS

CHAIN-OF-CUSTODY RECORD

403232 1 of 1

Sample No.	Matrix	YR:94 DATE MM/DD	Time	Sample Depth From	Sample Depth To	Station Location	Total No. Containers	VOC Method 8240					
ERS1-SB-D02-G-78	So	3/5	1030	7	8	ERS	1	✓					1
ERS1-SB-D03-G-01	So	3/5	1035	0	1	ERS	1	✓					2
ERS1-SB-E01-G-78	So	3/5	1345	7	8	ERS	1	✓					3
ERS1-SB-E02-G-01	So	3/5	1350	0	1	ERS	1	✓					4
ERS1-SB-E03-G-01	So	3/5	1600	0	1	ERS	1	✓					5
ERS1-SB-C01-GS-78	So	3/5	1605	7	8	ERS	1	✓					6
ERS1-SB-C02-GS-67	So	3/6	1035	6	7	ERS	1	✓					7
ERS1-SB-C03-G-01	So	3/6	1040	0	1	ERS	1	✓					8
ERS1-SB-C03-D-01	So	3/6	1040	0	1	ERS	1	✓					9
ERS1-RS-004-G	Li	3/6	1115	–	–	ERS	2	✓					10
ERS1-RS-003-G	Li	3/5	1625	–	–	ERS	2	✓					11

SAMPLE COLLECTION

PROJECT NO. AND NAME: 93B477 ENTERPRISE RECOVERY SYSTEMS
LOCATION OF SAMPLE: BYHALIA, MISSISSIPPI
TEAM LEADER: S. KRUL TELEPHONE: (504) 751-1873
COMPANY NAME: WOODWARD-CLYDE CONSULTANTS (WCC)
ADDRESS: 2822 ONEAL LANE, BATON ROUGE, LOUISIANA
WITNESS: Anna Saucier COMPANY NAME: WCC

FIELD INFORMATION

TYPES OF SAMPLES: (MATRIX) LIQUID (LI) WIPE (WI) FISH (FI) SEDIMENT (SE) SLUDGE (SL) OTHER (SPECIFY) SOIL (SO)
FIELD NOTES: Samples stored + shipped on ice
TRANSPORTER: Fed Ex AIRBILL/INVOICE: 5384553204 DESTINATION: ATI Lab. Pensacola, FL

SAMPLE TRANSFER (Original must be retained with sample at all times)

		RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1	NAME:	S. Krul	3/7/94	Anita Johnson	3/8/94 1223
	COMPANY:	WCC	1200	ATI-Pensacola	
2	NAME:				
	COMPANY:				
3	NAME:				
	COMPANY:				

TERMINATION OF CHAIN-OF-CUSTODY

AUTHORIZED BY: _____ DATE: _____ TIME: _____
COMPANY NAME: _____
SAMPLE DISPOSITION: STORAGE _____ DISPOSAL _____ OTHER _____

APPENDIX C-7

SEMI-VOLATILE AND RCRA TOTAL METAL SOIL SAMPLE RESULTS

AnalyticalTechnologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

SIGNATURE PAGE

Reviewed by: _____
ATI Project Manager

Client:	WOODWARD-CLYDE CONSULTANTS JACKSON, MISSISSIPPI
Project Name:	ERS-BAHAYLIA
Project Number:	93B477 TASK P
Project Location:	N/S
Accession Number:	411153
Project Manager:	DEJONETTE KING, ANDY EVERSULL
Sampled By:	JIMMY RAYBURN

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: RCRA METALS

Accession:	411153
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477 TASK P
Project Name:	ERS-BAHAYLIA
Project Location:	N/S
Department:	METALS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: RCRA METALS
QcLevel: I

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: ERS1-SS-A16-GS	Lab ID:001				
SILVER (6010)	MG/KG	ND	1	A6S237	
ARSENIC (6010)	MG/KG	ND	5	R6S237	
BARIUM (6010)	MG/KG	96	1	B6S237	
CADMIUM (6010)	MG/KG	0.5	0.5	C6S237	
CHROMIUM (6010)	MG/KG	24	1	H6S237	
MERCURY (7471)	MG/KG	ND	0.1	M4S108	
LEAD (6010)	MG/KG	32	5	P6S237	
SELENIUM (6010)	MG/KG	ND	10	S6S237	
Comments:					
Client ID: ERS1-SS-C16-GS	Lab ID:002				
SILVER (6010)	MG/KG	ND	1	A6S237	
ARSENIC (6010)	MG/KG	ND	5	R6S237	
BARIUM (6010)	MG/KG	87	1	B6S237	
CADMIUM (6010)	MG/KG	ND	0.5	C6S237	
CHROMIUM (6010)	MG/KG	20	1	H6S237	
MERCURY (7471)	MG/KG	ND	0.1	M4S108	
LEAD (6010)	MG/KG	24	5	P6S237	
SELENIUM (6010)	MG/KG	ND	10	S6S237	
Comments:					
Client ID: ERS1-SS-C17-GS	Lab ID:003				
SILVER (6010)	MG/KG	1	1	A6S237	
ARSENIC (6010)	MG/KG	6	5	R6S237	
BARIUM (6010)	MG/KG	65	1	B6S237	
CADMIUM (6010)	MG/KG	ND	0.5	C6S237	
CHROMIUM (6010)	MG/KG	17	1	H6S237	
MERCURY (7471)	MG/KG	ND	0.1	M4S108	
LEAD (6010)	MG/KG	18	5	P6S237	
SELENIUM (6010)	MG/KG	ND	10	S6S237	
Comments:					
Client ID: ERS1-SS-C18-GS	Lab ID:004				
SILVER (6010)	MG/KG	ND	1	A6S237	
ARSENIC (6010)	MG/KG	7	5	R6S237	
BARIUM (6010)	MG/KG	70	1	B6S237	
CADMIUM (6010)	MG/KG	ND	0.5	C6S237	
CHROMIUM (6010)	MG/KG	15	1	H6S237	
MERCURY (7471)	MG/KG	ND	0.1	M4S108	
LEAD (6010)	MG/KG	17	5	P6S237	
SELENIUM (6010)	MG/KG	ND	10	S6S237	
Comments:					

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: RCRA METALS
QcLevel: I

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: ERS1-SS-F1-GS	Lab ID:005				
SILVER (6010)	MG/KG	ND	1	A6S237	
ARSENIC (6010)	MG/KG	ND	5	R6S237	
BARIUM (6010)	MG/KG	56	1	B6S237	
CADMIUM (6010)	MG/KG	ND	0.5	C6S237	
CHROMIUM (6010)	MG/KG	10	1	H6S237	
MERCURY (7471)	MG/KG	ND	0.1	M4S108	
LEAD (6010)	MG/KG	11	5	P6S237	
SELENIUM (6010)	MG/KG	ND	10	S6S237	

Comments:

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: RCRA METALS

Client Id:	Lab Id:	Matrix:	Date/Time Sampled:	Date Received:
ERS1-SS-A16-GS	001	SOIL	03-NOV-94 0910	04-NOV-94
ERS1-SS-C16-GS	002	SOIL	03-NOV-94 1010	04-NOV-94
ERS1-SS-C17-GS	003	SOIL	03-NOV-94 0945	04-NOV-94
ERS1-SS-C18-GS	004	SOIL	03-NOV-94 0920	04-NOV-94
ERS1-SS-F1-GS	005	SOIL	03-NOV-94 1025	04-NOV-94

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Method Report Summary"

Accession Number: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: RCRA METALS

Client Sample Id:	Parameter:	Unit:	Result:
ERS1-SS-A16-GS	BARIUM (6010)	MG/KG	96
	CADMIUM (6010)	MG/KG	0.5
	CHROMIUM (6010)	MG/KG	24
	LEAD (6010)	MG/KG	32
ERS1-SS-C16-GS	BARIUM (6010)	MG/KG	87
	CHROMIUM (6010)	MG/KG	20
	LEAD (6010)	MG/KG	24
ERS1-SS-C17-GS	SILVER (6010)	MG/KG	1
	ARSENIC (6010)	MG/KG	6
	BARIUM (6010)	MG/KG	65
	CHROMIUM (6010)	MG/KG	17
	LEAD (6010)	MG/KG	18
ERS1-SS-C18-GS	ARSENIC (6010)	MG/KG	7
	BARIUM (6010)	MG/KG	70
	CHROMIUM (6010)	MG/KG	15
	LEAD (6010)	MG/KG	17
ERS1-SS-F1-GS	BARIUM (6010)	MG/KG	56
	CHROMIUM (6010)	MG/KG	10
	LEAD (6010)	MG/KG	11

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: ACID & BASE EXTRACTABLES (8270)

Accession:	411153
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477 TASK P
Project Name:	ERS-BAHAYLIA
Project Location:	N/S
Department:	ORGANIC/MS

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 001
Client Sample Id: ERS1-SS-A16-GS
Sample Date/Time: 03-NOV-94 0910
Received Date: 04-NOV-94

Batch: ALS215
Blank: B
Dry Weight %: 82
Extraction Date: 07-NOV-94
Analysis Date: 14-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/KG	ND	2000	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND	410	
2-CHLOROPHENOL	UG/KG	ND	410	
2,4-DICHLOROPHENOL	UG/KG	ND	410	
2,6-DICHLOROPHENOL	UG/KG	ND	410	
2,4-DIMETHYLPHENOL	UG/KG	ND	410	
4,6-DINITRO-2-METHYLPHENOL	UG/KG	ND	2000	
2,4-DINITROPHENOL	UG/KG	ND	2000	
2-METHYLPHENOL	UG/KG	ND	410	
4-METHYLPHENOL	UG/KG	ND	410	
2-NITROPHENOL	UG/KG	ND	410	
4-NITROPHENOL	UG/KG	ND	2000	
PENTACHLOROPHENOL	UG/KG	ND	2000	
PHENOL	UG/KG	ND	410	
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	410	
2,4,5-TRICHLOROPHENOL	UG/KG	ND	2000	
2,4,6-TRICHLOROPHENOL	UG/KG	ND	410	
ACENAPHTHENE	UG/KG	ND	410	
ACENAPHTHYLENE	UG/KG	ND	410	
ACETOPHENONE	UG/KG	ND	410	
4-AMINOBIPHENYL	UG/KG	ND	410	
ANILINE	UG/KG	ND	410	
ANTHRACENE	UG/KG	ND	410	
BENZIDINE	UG/KG	ND	410	
BENZO (A) ANTHRACENE	UG/KG	ND	410	
BENZO (A) PYRENE	UG/KG	ND	410	
BENZO (B) FLUORANTHENE	UG/KG	ND	410	
BENZO (G,H,I) PERYLENE	UG/KG	ND	410	
BENZO (K) FLUORANTHENE	UG/KG	ND	410	
BENZYL ALCOHOL	UG/KG	ND	410	
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	410	
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	410	
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	410	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	1700	410	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	410	
BUTYLBENZYL PHTHALATE	UG/KG	ND	410	
4-CHLOROANILINE	UG/KG	ND	410	
1-CHLORONAPHTHALENE	UG/KG	ND	410	
2-CHLORONAPHTHALENE	UG/KG	ND	410	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	410	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 001
Client Sample Id: ERS1-SS-A16-GS
Sample Date/Time: 03-NOV-94 0910
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/KG	ND	410	
DIBENZ(A,J)ACRIDINE	UG/KG	ND	410	
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	410	
DIBENZOFURAN	UG/KG	ND	410	
1,2-DICHLOROBENZENE	UG/KG	ND	410	
1,3-DICHLOROBENZENE	UG/KG	ND	410	
1,4-DICHLOROBENZENE	UG/KG	ND	410	
3,3'-DICHLOROBENZIDINE	UG/KG	ND	2000	
DIETHYLPHTHALATE	UG/KG	ND	410	
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	410	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	410	
A-,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	410	
DIMETHYLPHTHALATE	UG/KG	ND	410	
DI-N-BUTYLPHTHALATE	UG/KG	2300	410	
2,4-DINITROTOLUENE	UG/KG	ND	410	
2,6-DINITROTOLUENE	UG/KG	ND	410	
DI-N-OCTYLPHTHALATE	UG/KG	ND	410	
DIPHENYLAMINE	UG/KG	ND	410	
1,2-DIPHENYLHYDRAZINE	UG/KG	ND	410	
FLUORANTHENE	UG/KG	ND	410	
FLUORENE	UG/KG	ND	410	
HEXACHLOROBENZENE	UG/KG	ND	410	
HEXACHLOROBUTADIENE	UG/KG	ND	410	
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	410	
HEXACHLOROETHANE	UG/KG	ND	410	
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	410	
ISOPHORONE	UG/KG	ND	410	
3-METHYLCHOLANTHRENE	UG/KG	ND	410	
2-METHYLNAPHTHALENE	UG/KG	ND	410	
NAPHTHALENE	UG/KG	ND	410	
1-NAPHTHYLAMINE	UG/KG	ND	410	
2-NAPHTHYLAMINE	UG/KG	ND	410	
2-NITROANILINE	UG/KG	ND	410	
3-NITROANILINE	UG/KG	ND	410	
4-NITROANILINE	UG/KG	ND	410	
NITROBENZENE	UG/KG	ND	410	
N-NITROSODIMETHYLAMINE	UG/KG	ND	410	
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	410	
N-NITROSODIPHENYLAMINE	UG/KG	ND	410	
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	410	
N-NITROSOPIPERIDINE	UG/KG	ND	410	
PENTACHLOROBENZENE	UG/KG	ND	410	
PENTACHLORONITROBENZENE (PCNB)	UG/KG	ND	410	
PHENACETIN	UG/KG	ND	410	
PHENANTHRENE	UG/KG	ND	410	

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 001
Client Sample Id: ERS1-SS-A16-GS
Sample Date/Time: 03-NOV-94 0910
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/KG	ND	410	
PRONAMIDE	UG/KG	ND	410	
PYRENE	UG/KG	ND	410	
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	410	
1,2,4 TRICHLOROBENZENE	UG/KG	ND	410	
2-FLUOROPHENOL	%REC/SURR	57	25-121	
PHENOL-D6	%REC/SURR	58	24-113	
2,4,6-TRIBROMOPHENOL	%REC/SURR	69	19-122	
2-FLUOROBIPHENYL	%REC/SURR	82	30-109	
NITROBENZENE-D5	%REC/SURR	69	39-108	
TERPHENYL-D14	%REC/SURR	86	36-118	
ANALYST	INITIALS	RB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 002
Client Sample Id: ERS1-SS-C16-GS
Sample Date/Time: 03-NOV-94 1010
Received Date: 04-NOV-94

Batch: ALS215
Blank: B
Dry Weight %: 86
Extraction Date: 07-NOV-94
Analysis Date: 14-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/KG	ND	1900	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND	390	
2-CHLOROPHENOL	UG/KG	ND	390	
2,4-DICHLOROPHENOL	UG/KG	ND	390	
2,6-DICHLOROPHENOL	UG/KG	ND	390	
2,4-DIMETHYLPHENOL	UG/KG	ND	390	
4,6-DINITRO-2-METHYLPHENOL	UG/KG	ND	1900	
2,4-DINITROPHENOL	UG/KG	ND	1900	
2-METHYLPHENOL	UG/KG	ND	390	
4-METHYLPHENOL	UG/KG	ND	390	
2-NITROPHENOL	UG/KG	ND	390	
4-NITROPHENOL	UG/KG	ND	1900	
PENTACHLOROPHENOL	UG/KG	ND	1900	
PHENOL	UG/KG	ND	390	
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	390	
2,4,5-TRICHLOROPHENOL	UG/KG	ND	1900	
2,4,6-TRICHLOROPHENOL	UG/KG	ND	390	
ACENAPHTHENE	UG/KG	ND	390	
ACENAPHTHYLENE	UG/KG	ND	390	
ACETOPHENONE	UG/KG	ND	390	
4-AMINOBIPHENYL	UG/KG	ND	390	
ANILINE	UG/KG	ND	390	
ANTHRACENE	UG/KG	ND	390	
BENZIDINE	UG/KG	ND	390	
BENZO (A) ANTHRACENE	UG/KG	ND	390	
BENZO (A) PYRENE	UG/KG	ND	390	
BENZO (B) FLUORANTHENE	UG/KG	ND	390	
BENZO (G,H,I) PERYLENE	UG/KG	ND	390	
BENZO (K) FLUORANTHENE	UG/KG	ND	390	
BENZYL ALCOHOL	UG/KG	ND	390	
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	390	
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	390	
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	390	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	4400	390	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	390	
BUTYLBENZYL PHTHALATE	UG/KG	ND	390	
4-CHLOROANILINE	UG/KG	ND	390	
1-CHLORONAPHTHALENE	UG/KG	ND	390	
2-CHLORONAPHTHALENE	UG/KG	ND	390	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	390	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 002
Client Sample Id: ERS1-SS-C16-GS
Sample Date/Time: 03-NOV-94 1010
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/KG	ND	390	
DIBENZ(A,J)ACRIDINE	UG/KG	ND	390	
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	390	
DIBENZOFURAN	UG/KG	ND	390	
1,2-DICHLOROBENZENE	UG/KG	ND	390	
1,3-DICHLOROBENZENE	UG/KG	ND	390	
1,4-DICHLOROBENZENE	UG/KG	ND	390	
3,3'-DICHLOROBENZIDINE	UG/KG	ND	1900	
DIETHYLPHTHALATE	UG/KG	ND	390	
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	390	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	390	
A-,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	390	
DIMETHYLPHTHALATE	UG/KG	ND	390	
DI-N-BUTYLPHTHALATE	UG/KG	2000	390	
2,4-DINITROTOLUENE	UG/KG	ND	390	
2,6-DINITROTOLUENE	UG/KG	ND	390	
DI-N-OCTYLPHTHALATE	UG/KG	ND	390	
DIPHENYLAMINE	UG/KG	ND	390	
1,2-DIPHENYLHYDRAZINE	UG/KG	ND	390	
FLUORANTHENE	UG/KG	ND	390	
FLUORENE	UG/KG	ND	390	
HEXACHLOROBENZENE	UG/KG	ND	390	
HEXACHLOROBUTADIENE	UG/KG	ND	390	
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	390	
HEXACHLOROETHANE	UG/KG	ND	390	
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	390	
ISOPHORONE	UG/KG	ND	390	
3-METHYLCHOLANTHRENE	UG/KG	ND	390	
2-METHYLNAPHTHALENE	UG/KG	ND	390	
NAPHTHALENE	UG/KG	ND	390	
1-NAPHTHYLAMINE	UG/KG	ND	390	
2-NAPHTHYLAMINE	UG/KG	ND	390	
2-NITROANILINE	UG/KG	ND	390	
3-NITROANILINE	UG/KG	ND	390	
4-NITROANILINE	UG/KG	ND	390	
NITROBENZENE	UG/KG	ND	390	
N-NITROSODIMETHYLAMINE	UG/KG	ND	390	
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	390	
N-NITROSODIPHENYLAMINE	UG/KG	ND	390	
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	390	
N-NITROSOPIPERIDINE	UG/KG	ND	390	
PENTACHLOROBENZENE	UG/KG	ND	390	
PENTACHLORONITROBENZENE (PCNB)	UG/KG	ND	390	
PHENACETIN	UG/KG	ND	390	
PHENANTHRENE	UG/KG	ND	390	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 002
Client Sample Id: ERS1-SS-C16-GS
Sample Date/Time: 03-NOV-94 1010
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/KG	ND	390	
PRONAMIDE	UG/KG	ND	390	
PYRENE	UG/KG	ND	390	
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	390	
1,2,4 TRICHLOROBENZENE	UG/KG	ND	390	
2-FLUOROPHENOL	%REC/SURR	62	25-121	
PHENOL-D6	%REC/SURR	64	24-113	
2,4,6-TRIBROMOPHENOL	%REC/SURR	67	19-122	
2-FLUOROBIPHENYL	%REC/SURR	86	30-109	
NITROBENZENE-D5	%REC/SURR	71	39-108	
TERPHENYL-D14	%REC/SURR	85	36-118	
ANALYST	INITIALS	RB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 003
Client Sample Id: ERS1-SS-C17-GS
Sample Date/Time: 03-NOV-94 0945
Received Date: 04-NOV-94

Batch: ALS215
Blank: B
Dry Weight %: 87
Extraction Date: 07-NOV-94
Analysis Date: 14-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/KG	ND	1900	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND	380	
2-CHLOROPHENOL	UG/KG	ND	380	
2,4-DICHLOROPHENOL	UG/KG	ND	380	
2,6-DICHLOROPHENOL	UG/KG	ND	380	
2,4-DIMETHYLPHENOL	UG/KG	ND	380	
4,6-DINITRO-2-METHYLPHENOL	UG/KG	ND	1900	
2,4-DINITROPHENOL	UG/KG	ND	1900	
2-METHYLPHENOL	UG/KG	ND	380	
4-METHYLPHENOL	UG/KG	ND	380	
2-NITROPHENOL	UG/KG	ND	380	
4-NITROPHENOL	UG/KG	ND	1900	
PENTACHLOROPHENOL	UG/KG	ND	1900	
PHENOL	UG/KG	ND	380	
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	380	
2,4,5-TRICHLOROPHENOL	UG/KG	ND	1900	
2,4,6-TRICHLOROPHENOL	UG/KG	ND	380	
ACENAPHTHENE	UG/KG	ND	380	
ACENAPHTHYLENE	UG/KG	ND	380	
ACETOPHENONE	UG/KG	ND	380	
4-AMINOBIPHENYL	UG/KG	ND	380	
ANILINE	UG/KG	ND	380	
ANTHRACENE	UG/KG	ND	380	
BENZIDINE	UG/KG	ND	380	
BENZO (A) ANTHRACENE	UG/KG	ND	380	
BENZO (A) PYRENE	UG/KG	ND	380	
BENZO (B) FLUORANTHENE	UG/KG	ND	380	
BENZO (G,H,I) PERYLENE	UG/KG	ND	380	
BENZO (K) FLUORANTHENE	UG/KG	ND	380	
BENZYL ALCOHOL	UG/KG	ND	380	
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	380	
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	380	
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	380	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	2000	380	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	380	
BUTYLBENZYL PHTHALATE	UG/KG	700	380	
4-CHLOROANILINE	UG/KG	ND	380	
1-CHLORONAPHTHALENE	UG/KG	ND	380	
2-CHLORONAPHTHALENE	UG/KG	ND	380	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	380	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 003 Sample Date/Time: 03-NOV-94 0945
Client Sample Id: ERS1-SS-C17-GS Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/KG	ND	380	
DIBENZ(A,J)ACRIDINE	UG/KG	ND	380	
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	380	
DIBENZOFURAN	UG/KG	ND	380	
1,2-DICHLOROBENZENE	UG/KG	ND	380	
1,3-DICHLOROBENZENE	UG/KG	ND	380	
1,4-DICHLOROBENZENE	UG/KG	ND	380	
3,3'-DICHLOROBENZIDINE	UG/KG	ND	1900	
DIETHYLPHTHALATE	UG/KG	ND	380	
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	380	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	380	
A-,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	380	
DIMETHYLPHTHALATE	UG/KG	ND	380	
DI-N-BUTYLPHTHALATE	UG/KG	1900	380	
2,4-DINITROTOLUENE	UG/KG	ND	380	
2,6-DINITROTOLUENE	UG/KG	ND	380	
DI-N-OCTYLPHTHALATE	UG/KG	ND	380	
DIPHENYLAMINE	UG/KG	ND	380	
1,2-DIPHENYLHYDRAZINE	UG/KG	ND	380	
FLUORANTHENE	UG/KG	ND	380	
FLUORENE	UG/KG	ND	380	
HEXACHLOROBENZENE	UG/KG	ND	380	
HEXACHLOROBUTADIENE	UG/KG	ND	380	
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	380	
HEXACHLOROETHANE	UG/KG	ND	380	
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	380	
ISOPHORONE	UG/KG	ND	380	
3-METHYLCHOLANTHRENE	UG/KG	ND	380	
2-METHYLNAPHTHALENE	UG/KG	ND	380	
NAPHTHALENE	UG/KG	ND	380	
1-NAPHTHYLAMINE	UG/KG	ND	380	
2-NAPHTHYLAMINE	UG/KG	ND	380	
2-NITROANILINE	UG/KG	ND	380	
3-NITROANILINE	UG/KG	ND	380	
4-NITROANILINE	UG/KG	ND	380	
NITROBENZENE	UG/KG	ND	380	
N-NITROSODIMETHYLAMINE	UG/KG	ND	380	
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	380	
N-NITROSODIPHENYLAMINE	UG/KG	ND	380	
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	380	
N-NITROSOPIPERIDINE	UG/KG	ND	380	
PENTACHLOROBENZENE	UG/KG	ND	380	
PENTACHLORONITROBENZENE (PCNB)	UG/KG	ND	380	
PHENACETIN	UG/KG	ND	380	
PHENANTHRENE	UG/KG	ND	380	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 003
Client Sample Id: ERS1-SS-C17-GS
Sample Date/Time: 03-NOV-94 0945
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/KG	ND	380	
PRONAMIDE	UG/KG	ND	380	
PYRENE	UG/KG	ND	380	
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	380	
1,2,4 TRICHLOROBENZENE	UG/KG	ND	380	
2-FLUOROPHENOL	%REC/SURR	41	25-121	
PHENOL-D6	%REC/SURR	49	24-113	
2,4,6-TRIBROMOPHENOL	%REC/SURR	49	19-122	
2-FLUOROBIPHENYL	%REC/SURR	92	30-109	
NITROBENZENE-D5	%REC/SURR	74	39-108	
TERPHENYL-D14	%REC/SURR	99	36-118	
ANALYST	INITIALS	RB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 004
Client Sample Id: ERS1-SS-C18-GS
Sample Date/Time: 03-NOV-94 0920
Received Date: 04-NOV-94

Batch: ALS215
Blank: B
Dry Weight %: 82
Extraction Date: 07-NOV-94
Analysis Date: 15-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/KG	ND	2000	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND	400	
2-CHLOROPHENOL	UG/KG	ND	400	
2,4-DICHLOROPHENOL	UG/KG	ND	400	
2,6-DICHLOROPHENOL	UG/KG	ND	400	
2,4-DIMETHYLPHENOL	UG/KG	ND	400	
4,6-DINITRO-2-METHYLPHENOL	UG/KG	ND	2000	
2,4-DINITROPHENOL	UG/KG	ND	2000	
2-METHYLPHENOL	UG/KG	ND	400	
4-METHYLPHENOL	UG/KG	ND	400	
2-NITROPHENOL	UG/KG	ND	400	
4-NITROPHENOL	UG/KG	ND	2000	
PENTACHLOROPHENOL	UG/KG	ND	2000	
PHENOL	UG/KG	ND	400	
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	400	
2,4,5-TRICHLOROPHENOL	UG/KG	ND	2000	
2,4,6-TRICHLOROPHENOL	UG/KG	ND	400	
ACENAPHTHENE	UG/KG	ND	400	
ACENAPHTHYLENE	UG/KG	ND	400	
ACETOPHENONE	UG/KG	ND	400	
4-AMINOBIPHENYL	UG/KG	ND	400	
ANILINE	UG/KG	ND	400	
ANTHRACENE	UG/KG	ND	400	
BENZIDINE	UG/KG	ND	400	
BENZO (A) ANTHRACENE	UG/KG	ND	400	
BENZO (A) PYRENE	UG/KG	ND	400	
BENZO (B) FLUORANTHENE	UG/KG	ND	400	
BENZO (G,H,I) PERYLENE	UG/KG	ND	400	
BENZO (K) FLUORANTHENE	UG/KG	ND	400	
BENZYL ALCOHOL	UG/KG	ND	400	
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	400	
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	400	
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	400	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	ND	400	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	400	
BUTYLBENZYL PHTHALATE	UG/KG	550	400	
4-CHLOROANILINE	UG/KG	ND	400	
1-CHLORONAPHTHALENE	UG/KG	ND	400	
2-CHLORONAPHTHALENE	UG/KG	ND	400	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	400	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 004
Client Sample Id: ERS1-SS-C18-GS
Sample Date/Time: 03-NOV-94 0920
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/KG	ND	400	
DIBENZ(A,J)ACRIDINE	UG/KG	ND	400	
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	400	
DIBENZOFURAN	UG/KG	ND	400	
1,2-DICHLOROBENZENE	UG/KG	ND	400	
1,3-DICHLOROBENZENE	UG/KG	ND	400	
1,4-DICHLOROBENZENE	UG/KG	ND	400	
3,3'-DICHLOROBENZIDINE	UG/KG	ND	2000	
DIETHYLPHTHALATE	UG/KG	ND	400	
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	400	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	400	
A-,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	400	
DIMETHYLPHTHALATE	UG/KG	ND	400	
DI-N-BUTYLPHTHALATE	UG/KG	1200	400	
2,4-DINITROTOLUENE	UG/KG	ND	400	
2,6-DINITROTOLUENE	UG/KG	ND	400	
DI-N-OCTYLPHTHALATE	UG/KG	ND	400	
DIPHENYLAMINE	UG/KG	ND	400	
1,2-DIPHENYLHYDRAZINE	UG/KG	ND	400	
FLUORANTHENE	UG/KG	ND	400	
FLUORENE	UG/KG	ND	400	
HEXACHLOROBENZENE	UG/KG	ND	400	
HEXACHLOROBUTADIENE	UG/KG	ND	400	
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	400	
HEXACHLOROETHANE	UG/KG	ND	400	
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	400	
ISOPHORONE	UG/KG	ND	400	
3-METHYLCHOLANTHRENE	UG/KG	ND	400	
2-METHYLNAPHTHALENE	UG/KG	ND	400	
NAPHTHALENE	UG/KG	ND	400	
1-NAPHTHYLAMINE	UG/KG	ND	400	
2-NAPHTHYLAMINE	UG/KG	ND	400	
2-NITROANILINE	UG/KG	ND	400	
3-NITROANILINE	UG/KG	ND	400	
4-NITROANILINE	UG/KG	ND	400	
NITROBENZENE	UG/KG	ND	400	
N-NITROSODIMETHYLAMINE	UG/KG	ND	400	
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	400	
N-NITROSODIPHENYLAMINE	UG/KG	ND	400	
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	400	
N-NITROSOPIPERIDINE	UG/KG	ND	400	
PENTACHLOROBENZENE	UG/KG	ND	400	
PENTACHLORONITROBENZENE (PCNB)	UG/KG	ND	400	
PHENACETIN	UG/KG	ND	400	
PHENANTHRENE	UG/KG	ND	400	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 004
Client Sample Id: ERS1-SS-C18-GS
Sample Date/Time: 03-NOV-94 0920
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/KG	ND	400	
PRONAMIDE	UG/KG	ND	400	
PYRENE	UG/KG	ND	400	
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	400	
1,2,4 TRICHLOROBENZENE	UG/KG	ND	400	
2-FLUOROPHENOL	%REC/SURR	74	25-121	
PHENOL-D6	%REC/SURR	74	24-113	
2,4,6-TRIBROMOPHENOL	%REC/SURR	89	19-122	
2-FLUOROBIPHENYL	%REC/SURR	77	30-109	
NITROBENZENE-D5	%REC/SURR	68	39-108	
TERPHENYL-D14	%REC/SURR	81	36-118	
ANALYST	INITIALS	RB		

Comments:

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 005 Sample Date/Time: 03-NOV-94 1025
Client Sample Id: ERS1-SS-F1-GS Received Date: 04-NOV-94

Batch: ALS215 Extraction Date: 07-NOV-94
Blank: B Dry Weight %: 87 Analysis Date: 15-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
BENZOIC ACID	UG/KG	ND	1900	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND	380	
2-CHLOROPHENOL	UG/KG	ND	380	
2,4-DICHLOROPHENOL	UG/KG	ND	380	
2,6-DICHLOROPHENOL	UG/KG	ND	380	
2,4-DIMETHYLPHENOL	UG/KG	ND	380	
4,6-DINITRO-2-METHYLPHENOL	UG/KG	ND	1900	
2,4-DINITROPHENOL	UG/KG	ND	1900	
2-METHYLPHENOL	UG/KG	ND	380	
4-METHYLPHENOL	UG/KG	ND	380	
2-NITROPHENOL	UG/KG	ND	380	
4-NITROPHENOL	UG/KG	ND	1900	
PENTACHLOROPHENOL	UG/KG	ND	1900	
PHENOL	UG/KG	ND	380	
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	380	
2,4,5-TRICHLOROPHENOL	UG/KG	ND	1900	
2,4,6-TRICHLOROPHENOL	UG/KG	ND	380	
ACENAPHTHENE	UG/KG	ND	380	
ACENAPHTHYLENE	UG/KG	ND	380	
ACETOPHENONE	UG/KG	ND	380	
4-AMINOBIPHENYL	UG/KG	ND	380	
ANILINE	UG/KG	ND	380	
ANTHRACENE	UG/KG	ND	380	
BENZIDINE	UG/KG	ND	380	
BENZO (A) ANTHRACENE	UG/KG	ND	380	
BENZO (A) PYRENE	UG/KG	ND	380	
BENZO (B) FLUORANTHENE	UG/KG	ND	380	
BENZO (G,H,I) PERYLENE	UG/KG	ND	380	
BENZO (K) FLUORANTHENE	UG/KG	ND	380	
BENZYL ALCOHOL	UG/KG	ND	380	
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	380	
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	380	
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	380	
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	ND	380	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	380	
BUTYLBENZYL PHTHALATE	UG/KG	ND	380	
4-CHLOROANILINE	UG/KG	ND	380	
1-CHLORONAPHTHALENE	UG/KG	ND	380	
2-CHLORONAPHTHALENE	UG/KG	ND	380	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	380	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 005
Client Sample Id: ERS1-SS-F1-GS
Sample Date/Time: 03-NOV-94 1025
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
CHRYSENE	UG/KG	ND	380	
DIBENZ(A,J)ACRIDINE	UG/KG	ND	380	
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	380	
DIBENZOFURAN	UG/KG	ND	380	
1,2-DICHLOROBENZENE	UG/KG	ND	380	
1,3-DICHLOROBENZENE	UG/KG	ND	380	
1,4-DICHLOROBENZENE	UG/KG	ND	380	
3,3'-DICHLOROBENZIDINE	UG/KG	ND	1900	
DIETHYLPHTHALATE	UG/KG	ND	380	
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	380	
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	380	
A-,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	380	
DIMETHYLPHTHALATE	UG/KG	ND	380	
DI-N-BUTYLPHTHALATE	UG/KG	ND	380	
2,4-DINITROTOLUENE	UG/KG	ND	380	
2,6-DINITROTOLUENE	UG/KG	ND	380	
DI-N-OCTYLPHTHALATE	UG/KG	ND	380	
DIPHENYLAMINE	UG/KG	ND	380	
1,2-DIPHENYLHYDRAZINE	UG/KG	ND	380	
FLUORANTHENE	UG/KG	ND	380	
FLUORENE	UG/KG	ND	380	
HEXACHLOROBENZENE	UG/KG	ND	380	
HEXACHLOROBUTADIENE	UG/KG	ND	380	
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	380	
HEXACHLOROETHANE	UG/KG	ND	380	
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	380	
ISOPHORONE	UG/KG	ND	380	
3-METHYLCHOLANTHRENE	UG/KG	ND	380	
2-METHYLNAPHTHALENE	UG/KG	ND	380	
NAPHTHALENE	UG/KG	ND	380	
1-NAPHTHYLAMINE	UG/KG	ND	380	
2-NAPHTHYLAMINE	UG/KG	ND	380	
2-NITROANILINE	UG/KG	ND	380	
3-NITROANILINE	UG/KG	ND	380	
4-NITROANILINE	UG/KG	ND	380	
NITROBENZENE	UG/KG	ND	380	
N-NITROSODIMETHYLAMINE	UG/KG	ND	380	
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	380	
N-NITROSODIPHENYLAMINE	UG/KG	ND	380	
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	380	
N-NITROSOPIPERIDINE	UG/KG	ND	380	
PENTACHLOROBENZENE	UG/KG	ND	380	
PENTACHLORONITROBENZENE (PCNB)	UG/KG	ND	380	
PHENACETIN	UG/KG	ND	380	
PHENANTHRENE	UG/KG	ND	380	

"FINAL REPORT FORMAT - SINGLE"

Accession: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Matrix: SOIL
QC Level: I

Lab Id: 005
Client Sample Id: ERS1-SS-F1-GS
Sample Date/Time: 03-NOV-94 1025
Received Date: 04-NOV-94

Parameter:	Units:	Results:	Rpt Lmts:	Q:
2-PICOLINE	UG/KG	ND	380	
PRONAMIDE	UG/KG	ND	380	
PYRENE	UG/KG	ND	380	
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	380	
1,2,4 TRICHLOROBENZENE	UG/KG	ND	380	
2-FLUOROPHENOL	%REC/SURR	53	25-121	
PHENOL-D6	%REC/SURR	62	24-113	
2,4,6-TRIBROMOPHENOL	%REC/SURR	54	19-122	
2-FLUOROBIPHENYL	%REC/SURR	80	30-109	
NITROBENZENE-D5	%REC/SURR	69	39-108	
TERPHENYL-D14	%REC/SURR	84	36-118	
ANALYST	INITIALS	RB		

Comments:

"Method Report Summary"

Accession Number: 411153
Client: WOODWARD-CLYDE CONSULTANTS
Project Number: 93B477 TASK P
Project Name: ERS-BAHAYLIA
Project Location: N/S
Test: ACID & BASE EXTRACTABLES (8270)

Client Sample Id:	Parameter:	Unit:	Result:
ERS1-SS-A16-GS	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	1700
	DI-N-BUTYLPHTHALATE	UG/KG	2300
ERS1-SS-C16-GS	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	4400
	DI-N-BUTYLPHTHALATE	UG/KG	2000
ERS1-SS-C17-GS	BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	2000
	BUTYLBENZYL PHTHALATE	UG/KG	700
	DI-N-BUTYLPHTHALATE	UG/KG	1900
ERS1-SS-C18-GS	BUTYLBENZYL PHTHALATE	UG/KG	550
	DI-N-BUTYLPHTHALATE	UG/KG	1200

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: RCRA METALS

Accession:	411153
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477 TASK P
Project Name:	ERS-BAHAYLIA
Project Location:	N/S
Department:	METALS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	SILVER	ARSENIC	BARIUM	CADMIUM	CHROMIUM	MERCURY
Batch Id:	A6S237	R6S237	B6S237	C6S237	H6S237	M4S108
Blank Result:	<1	<5	<1	<0.5	<1	<0.1
Anal. Method:	6010	6010	6010	6010	6010	7471
Prep. Method:	3050	3050	3050	3050	3050	7471
Analysis Date:	07-NOV-94	07-NOV-94	07-NOV-94	07-NOV-94	07-NOV-94	08-NOV-94
Prep. Date:	07-NOV-94	07-NOV-94	07-NOV-94	07-NOV-94	07-NOV-94	08-NOV-94
Sample Duplication						
Sample Dup:	411153-3	411153-3	411153-3	411153-3	411153-3	411171-1
Rept Limit:	<1	<5	<1	<0.5	<1	<0.1
Sample Result:	1	6	65	<0.5	17	<0.1
Dup Result:	<1	8	69	<0.5	15	<0.1
Sample RPD:	N/C	2G	6	N/C	13	N/C
Max RPD:	1	5	20	0.5	20	0.1
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
Matrix Spike						
Sample Spiked:	411153-3	411153-3	411153-3	411153-3	411153-3	411171-1
Rept Limit:	<1	<5	<1	<0.5	<1	<0.1
Sample Result:	1	6	65	<0.5	17	<0.1
Spiked Result:	220	210	280	200	230	2.6
Spike Added:	200	200	200	200	200	2.5
% Recovery:	110	102	108	100	107	104
% Rec Limits:	75-125	75-125	75-125	75-125	75-125	75-125
Dry Weight%	N/A	N/A	N/A	N/A	N/A	N/A
ICV						
ICV Result:	5.2	4.7	4.8	4.9	5.1	0.0043
True Result:	5.0	5.0	5.0	5.0	5.0	0.0040
% Recovery:	104	94	96	98	102	108
% Rec Limits:	90-110	90-110	90-110	90-110	90-110	80-120
LCS						
LCS Result:	87	59	300	73	52	22.6
True Result:	85	65.1	319	81.5	57.4	23.7
% Recovery:	102	91	94	90	91	95
% Rec Limits:	40-147	49-149	67-130	50-140	59-140	42-155

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"Metals Quality Control Report"

Parameter:	LEAD	SELENIUM
Batch Id:	P6S237	S6S237
Blank Result:	<5	<10
Anal. Method:	6010	6010
Prep. Method:	3050	3050
Analysis Date:	07-NOV-94	07-NOV-94
Prep. Date:	07-NOV-94	07-NOV-94

Sample Duplication

Sample Dup:	411153-3	411153-3
Rept Limit:	<5	<10
Sample Result:	18	<10
Dup Result:	17	<10
Sample RPD:	1G	N/C
Max RPD:	5	10
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	411153-3	411153-3
Rept Limit:	<5	<10
Sample Result:	18	<10
Spiked Result:	250	200
Spike Added:	200	200
% Recovery:	116	100
% Rec Limits:	75-125	75-125
Dry Weight%	N/A	N/A

ICV

ICV Result:	5.0	5.0
True Result:	5.0	5.0
% Recovery:	100	100
% Rec Limits:	90-110	90-110

LCS

LCS Result:	110	42
True Result:	128	47.6
% Recovery:	86	88
% Rec Limits:	54-140	51-146

"Quality Control Comments"

Batch Id:	Comments:
A6S237	ANALYST: JR
A6S237	Spike Source: Plasma Chem, Lot # A4J470121 for Silver.
A6S237	LCS Source: Environmental Resource Association, Lot # 221 for Silver.
R6S237	ANALYST: JR
R6S237	Spike Source: Plasma Chem, Lot # J3M33N10D for Arsenic.
R6S237	LCS Source: Environmental Resource Association, Lot # 221 for Arsenic.
B6S237	ANALYST: JR
B6S237	Spike Source: Plasma Chem, Lot # M3M5610C for Barium.
B6S237	LCS Source: Environmental Resource Association, Lot # 221 for Barium.
C6S237	ANALYST: JR
C6S237	Spike Source: Plasma Chem, Lot # Y3M48N10D for Cadmium.
C6S237	LCS Source: Environmental Resource Association, Lot # 221 for Cadmium.
H6S237	ANALYST: JR
H6S237	Spike Source: Plasma Chem, Lot # Y2M24L10P8 for Chromium.
H6S237	LCS Source: Environmental Resource Association, Lot # 221 for Chromium.
M4S108	ANALYST: JP
M4S108	Spike Source: Spex Industries, Lot # 3-88HG for Mercury.
M4S108	LCS Source: Environmental Resource Association, Lot # 219 for Mercury.
P6S237	ANALYST: JR
P6S237	Spike Source: Plasma Chem, Lot # D3J82N10F for Lead.
P6S237	LCS Source: Environmental Resource Association, Lot # 221 for Lead.
S6S237	ANALYST: JR
S6S237	Spike Source: Plasma Chem, Lot # Y3M34N10D for Selenium.
S6S237	LCS Source: Environmental Resource Association, Lot # 221 for Selenium.

----- Common Footnotes Metals -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
DISS. OR D = DISSOLVED
T & D = TOTAL AND DISSOLVED
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DIGESTION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
J = (FLORIDA DEP 'J' FLAG) - MATRIX SPIKE AND POST SPIKE RECOVERY IS OUT OF THE ACCEPTABLE RANGE. SEE OUT OF CONTROL EVENTS FORM.

FROM ANALYSIS REPORT:
RL= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.
Q= QUALIFIER (FOOTNOTE)

FROM QUALITY CONTROL REPORT:
RPD= RELATIVE PERCENT DEVIATION.
RPT LIMIT= REPORTING LIMIT BASED ON METHOD DETECTION LIMIT STUDIES.

NOTE: THE UNITS REPORTED ON THE QUALITY CONTROL REPORT ARE EQUAL TO THOSE ON THE ANALYSIS REPORT.

SW-846, 3rd Edition, September 1986 and Revision 1, July 1992.
EPA 600/4-79-020, Revised March 1983.
NIOSH Manual of Analytical Methods, 3rd Edition.

JP = JAY PEREZ
GJ = GARY JACOBS
JLH = JAMES L. HERED
CD = CHRISTY DRAPER
JRR = JOHN R. ROWE
JR = JOHN REED
SL = STEPHANIE LOWRY

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: ACID & BASE EXTRACTABLES (8270)

Accession:	411153
Client:	WOODWARD-CLYDE CONSULTANTS
Project Number:	93B477 TASK P
Project Name:	ERS-BAHAYLIA
Project Location:	N/S
Department:	ORGANIC/MS

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Soil Blank
Batch: ALS215
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Blank Id: B Date Analyzed: 15-NOV-94 Date Extracted: 07-NOV-94

Parameters:	Units:	Results:	Reporting Limits:
BENZOIC ACID	UG/KG	ND	10
4-CHLORO-3-METHYLPHENOL	UG/KG	ND	10
2-CHLOROPHENOL	UG/KG	ND	10
2,4-DICHLOROPHENOL	UG/KG	ND	10
2,6-DICHLOROPHENOL	UG/KG	ND	10
2,4-DIMETHYLPHENOL	UG/KG	ND	10
4,6-DINITRO-2-METHYLPHENOL	UG/KG	ND	10
2,4-DINITROPHENOL	UG/KG	ND	10
2-METHYLPHENOL	UG/KG	ND	10
4-METHYLPHENOL	UG/KG	ND	10
2-NITROPHENOL	UG/KG	ND	10
4-NITROPHENOL	UG/KG	ND	10
PENTACHLOROPHENOL	UG/KG	ND	10
PHENOL	UG/KG	ND	10
2,3,4,6-TETRACHLOROPHENOL	UG/KG	ND	10
2,4,5-TRICHLOROPHENOL	UG/KG	ND	10
2,4,6-TRICHLOROPHENOL	UG/KG	ND	10
ACENAPHTHENE	UG/KG	ND	10
ACENAPHTHYLENE	UG/KG	ND	10
ACETOPHENONE	UG/KG	ND	10
4-AMINOBIPHENYL	UG/KG	ND	10
ANILINE	UG/KG	ND	10
ANTHRACENE	UG/KG	ND	10
BENZIDINE	UG/KG	ND	10
BENZO (A) ANTHRACENE	UG/KG	ND	10
BENZO (A) PYRENE	UG/KG	ND	10
BENZO (B) FLUORANTHENE	UG/KG	ND	10
BENZO (G,H,I) PERYLENE	UG/KG	ND	10
BENZO (K) FLUORANTHENE	UG/KG	ND	10
BENZYL ALCOHOL	UG/KG	ND	10
BIS(2-CHLOROETHOXY)METHANE	UG/KG	ND	10
BIS(2-CHLOROETHYL)ETHER	UG/KG	ND	10
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	ND	10
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	ND	10
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND	10
BUTYLBENZYL PHTHALATE	UG/KG	ND	10
4-CHLOROANILINE	UG/KG	ND	10
1-CHLORONAPHTHALENE	UG/KG	ND	10
2-CHLORONAPHTHALENE	UG/KG	ND	10
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND	10
CHRYSENE	UG/KG	ND	10
DIBENZ(A,J)ACRIDINE	UG/KG	ND	10
DIBENZO (A,H) ANTHRACENE	UG/KG	ND	10
DIBENZOFURAN	UG/KG	ND	10
1,2-DICHLOROBENZENE	UG/KG	ND	10
1,3-DICHLOROBENZENE	UG/KG	ND	10

"QC Report"

Title: Soil Blank
Batch: ALS215
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Parameters:	Units:	Results:	Reporting Limits:
1,4-DICHLOROBENZENE	UG/KG	ND	10
3,3'-DICHLOROBENZIDINE	UG/KG	ND	10
DIETHYLPHTHALATE	UG/KG	ND	10
P-DIMETHYLAMINOAZOBENZENE	UG/KG	ND	10
7,12-DIMETHYLBENZ(A)ANTHRACENE	UG/KG	ND	10
A-,A-DIMETHYLPHENETHYLAMINE	UG/KG	ND	10
DIMETHYLPHTHALATE	UG/KG	ND	10
DI-N-BUTYLPHTHALATE	UG/KG	ND	10
2,4-DINITROTOLUENE	UG/KG	ND	10
2,6-DINITROTOLUENE	UG/KG	ND	10
DI-N-OCTYLPHTHALATE	UG/KG	ND	10
DIPHENYLAMINE	UG/KG	ND	10
1,2-DIPHENYLHYDRAZINE	UG/KG	ND	10
FLUORANTHENE	UG/KG	ND	10
FLUORENE	UG/KG	ND	10
HEXACHLOROBENZENE	UG/KG	ND	10
HEXACHLOROBUTADIENE	UG/KG	ND	10
HEXACHLOROCYCLOPENTADIENE	UG/KG	ND	10
HEXACHLOROETHANE	UG/KG	ND	10
INDENO (1,2,3-CD) PYRENE	UG/KG	ND	10
ISOPHORONE	UG/KG	ND	10
3-METHYLCHOLANTHRENE	UG/KG	ND	10
2-METHYLNAPHTHALENE	UG/KG	ND	10
NAPHTHALENE	UG/KG	ND	10
1-NAPHTHYLAMINE	UG/KG	ND	10
2-NAPHTHYLAMINE	UG/KG	ND	10
2-NITROANILINE	UG/KG	ND	10
3-NITROANILINE	UG/KG	ND	10
4-NITROANILINE	UG/KG	ND	10
NITROBENZENE	UG/KG	ND	10
N-NITROSODIMETHYLAMINE	UG/KG	ND	10
N-NITROSODI-N-BUTYLAMINE	UG/KG	ND	10
N-NITROSODIPHENYLAMINE	UG/KG	ND	10
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	ND	10
N-NITROSOPIPERIDINE	UG/KG	ND	10
PENTACHLOROBENZENE	UG/KG	ND	10
PENTACHLORONITROBENZENE (PCNB)	UG/KG	ND	10
PHENACETIN	UG/KG	ND	10
PHENANTHRENE	UG/KG	ND	10
2-PICOLINE	UG/KG	ND	10
PRONAMIDE	UG/KG	ND	10
PYRENE	UG/KG	ND	10
1,2,4,5-TETRACHLOROBENZENE	UG/KG	ND	10
1,2,4 TRICHLOROBENZENE	UG/KG	ND	10
2-FLUOROPHENOL	%REC/SURR	80	25-121
PHENOL-D6	%REC/SURR	78	24-113
2,4,6-TRIBROMOPHENOL	%REC/SURR	95	19-122

ANALYTICAL TECHNOLOGIES, INC. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"QC Report"

Title: Soil Blank
Batch: ALS215
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

Parameters:	Units:	Results:	Reporting Limits:
2-FLUOROBIPHENYL	%REC/SURR	81	30-109
NITROBENZENE-D5	%REC/SURR	71	39-108
TERPHENYL-D14	%REC/SURR	92	36-118
ANALYST	INITIALS	RB	

Comments:

"QC Report"

Title: Soil Reagent
Batch: ALS215
Analysis Method: 8270 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.
Extraction Method: 3550 / SW-846, 3rd Edition, September 1986 and Rev. 1, July 1992.

RS Date Analyzed: 08-NOV-94
RSD Date Analyzed: 08-NOV-94

RS Date Extracted: 05-NOV-94
RSD Date Extracted: 05-NOV-94

Parameters:	Spike Added	Sample Conc	RS Conc	RS %Rec	RSD Conc	RSD %Rec	RPD	RPD Lmts	Rec Lmts
PHENOL	3333	<10	2400	72	2567	77	7	35	5-112
2-CHLOROPHENOL	3333	<10	2533	76	2633	79	4	50	35-110
1,4-DICHLOROBENZENE	1667	<10	1333	80	1367	82	2	27	33-112
N-NITRO-DI-N-PROPYLAMINE	1667	<10	1233	74	1300	78	5	38	30-118
1,2,4 TRICHLOROBENZENE	1667	<10	1267	76	1333	80	5	23	44-142
4-CHLORO-3-METHYLPHENOL	3333	<10	2433	73	2500	75	3	33	37-114
ACENAPHTHENE	1667	<10	1333	80	1433	86	7	19	47-145
4-NITROPHENOL	3333	<50	2033	61	2467	74	19	50	6-132
2,4-DINITROTOLUENE	1667	<10	1300	78	1400	84	7	47	43-116
PENTACHLOROPHENOL	3333	<50	2367	71	2533	76	7	47	30-121
PYRENE	1667	<10	1300	78	1400	84	7	36	52-115
Surrogates:									
NITROBENZENE-D5				75		80			39-108
2-FLUOROBIPHENYL				82		88			30-109
TERPHENYL-D14				89		91			36-118
PHENOL-D6				87		90			24-113
2-FLUOROPHENOL				80		84			25-121
2,4,6-TRIBROMOPHENOL				83		84			19-122

Comments:

Notes:
N/S = NOT SUBMITTED N/A = NOT APPLICABLE D = DILUTED OUT
UG/KG = PARTS PER BILLION. <RL = LESS THAN REPORTING LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS.
SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

Common notation for Organic reporting

N/S = NOT SUBMITTED
N/A = NOT APPLICABLE
D = DILUTED OUT
UG/L = PARTS PER BILLION.
UG/KG = PARTS PER BILLION.
MG/KG = PARTS PER MILLION.
MG/L = PARTS PER MILLION.
MG/M3 = MILLIGRAMS PER CUBIC METER.
NG = NANOGRAMS.
UG = MICROGRAMS.
PPBV = PARTS PER BILLION/VOLUME.
< = LESS THAN DETECTION LIMIT.
* = VALUES OUTSIDE OF QUALITY CONTROL LIMITS
J = THE REPORTED VALUE IS EITHER LESS THAN THE REPORTING LIMIT BUT GREATER THAN ZERO, OR QUANTITATED AS A TIC; THEREFORE, IT IS ESTIMATED.
JJ = REPORTED VALUE IS ESTIMATED DUE TO MATRIX INTERFERENCE.
ND = NOT DETECTED ABOVE REPORT LIMIT.
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.
RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION)

SOURCES FOR CONTROL LIMITS ARE INTERNAL LABORATORY QUALITY ASSURANCE PROGRAM AND REFERENCED METHOD.

ORGANIC SOILS ARE REPORTED ON A DRY WEIGHT BASIS.

DUE TO THE NATURE OF THE SAMPLE MATRIX, MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS CANNOT BE PERFORMED FOR AIR ANALYSIS.

LP = LEVERNE PETERSON
DWB = DAVID BOWERS
DB = DENNIS BESON
RB = RAFAEL BARRAZA
PL = PAUL LESCHENSKY
RW = RITA WINGO
LD = LARRY DILMORE
LL = LANCE LARSON
JA = JENNIFER ALEXANDER

AnalyticalTechnologies,Inc.

PROJECT SAMPLE INSPECTION FORM

Accession #: 411153 Date received: 04-NOV-94

1.	Was there a Chain of Custody?	YES	NO		7.	Are samples correctly preserved for analysis required?	YES	NO	
2.	Was Chain of Custody properly relinquished?	YES	NO		8.	Is there sufficient volume for analysis requested?	YES	NO	
3.	Were samples received cold? (At 4° or on ice)	YES	NO	N/A	9.	Were samples received within holding time?	YES	NO	
4.	Were all containers properly labeled and identified?	YES	NO		10.	Was there headspace greater than ¼" in diameter in volatile bottles?	YES	NO	N/A
5.	Were samples received in proper containers for analysis requested?	YES	NO		11.	If sent, were matrix spike bottles returned?	YES	NO	N/A
6.	Were all sample containers received intact?	YES	NO						

Tracking Number: 0217150592 Shipped By: FEDEX

Cooler Number: N/S

Out of Control Events and Inspection Comments:

Inspected By: AJ Date: 11/4/94 Logged By: AJ Date: 11/4/94

Analytical**Technologies,**Inc.
11 East Olive Road • Pensacola, Florida 32514 • (904) 474-1001

CHAIN OF CUSTODY

PART 1 - Bottle Shipment Information ATI ACCESSION #: 411153

CLIENT: **CLIENT PROJECT NUMBER:**

QUANTITY OF SAMPLE CONTAINERS SHIPPED	PRESERVATIVE							PLASTIC CONTAINERS							GLASS CONTAINERS									NOTES
	H_2SO_4	HNO3	HCL	Zn Acetate	$Na_2S_2O_3$	Unpreserved	NaOH	8 oz.	16 oz.	32 oz.	½ gallon	1 gallon	Whirl-pak	100-ML Cup	120 ml (A)	1 liter (A)	1 liter (C)	40 ml Vial	4 oz. wm	8 oz. wm	16 oz. wm	32 oz. wm	D.I. Trip Blank	
16						✓													✓					

Relinquished By:	Time	Date	Received By:	Time	Date
Jimmy B. Sutton	15:30	10/26			

PART 2 - Sample/Project Information

SAMPLE MATRIX CODES

DW DRINKING WATER — AI AIR — SW SURFACE WATER
WW WASTEWATER — SO SOIL — SL SLUDGE
GW GROUNDWATER — OI OIL — ST STORMWATER

PARAMETERS AND PRESERVATIVES REQUESTED

SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME	MATRIX	RCRA Metals	SVOC	TOTAL # OF BOTTLES
ERSI-SS-A16-GS	11-03-94	0910	SO	✓	✓	2
ERSI-SS-C16-GS	↓	1010	SO	✓	✓	2
ERSI-SS-C17-GS	↓	0945	SO	✓	✓	2
ERSI-SS-C18-GS	↓	0930	SO	✓	✓	2
ERSI-SS-F1-GS	11-03-94	1025	SO	✓	✓	2

Total Number of Bottles/Containers:

Relinquished By	Date	Time	Received By	Date	Time
Jimmy Rayburn	11-03-94	1640	[illegible]	11/4/94	0930

Client	Woodward-Clyde Consultants		Purchase Order Number
Address	1553 E. County Line Rd.		Project Number 93E477 Task F
City	Jackson	State MS Zip 39211	Project Name ERS-Batayliz
Phone Number	(601) 957-7666	Fax Number (601) 957-7692	Project Location
Project Manager	Linda Eversull		Sampled By Jimmy Rayburn

TURNAROUND TIMES	check below	SPECIAL INSTRUCTIONS
Standard - 14-21 days	X	
RUSH (must be approved in advance)		
48 hours - 2x standard price		
3-7 days - 1.5x standard price		
TCLP - 1 week rush 1.5x standard price		
QC Level none I II III IV (circle one)		Copies of report needed _____