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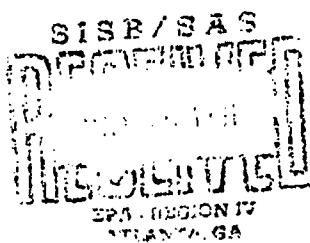
Care

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Break:	_____
Other:	_____

C-586-10-1-68

October 10, 1991

Mr. A.R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365



Subject: Final Site Inspection Report
Dickson County Landfill
Dickson, Dickson County, Tennessee
EPA ID No. TND981467673
TDD No. F4-9012-02
Revision 0

Dear Mr. Hanke:

Enclosed please find two (2) copies of the Final Site Inspection Report, Revision 0, for Dickson County Landfill located in Dickson, Dickson County, Tennessee.

If you have any questions or comments, please contact me at HALLIBURTON NUS Environmental Corporation.

Very truly yours,

A handwritten signature in black ink.

David Zepos
Project Manager

Approved:

A handwritten signature in black ink.

DC/kat

Enclosures (2)

High Priority Site
11/21/91
J. Cane
R-586-10-1-48

FINAL REPORT

SITE INSPECTION
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE
EPA ID NO.: TND981467673

Prepared Under
TDD No. F4-9012-02
Contract No. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

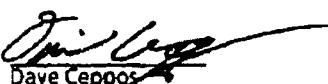
OCTOBER 10, 1991

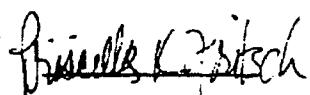
HALLIBURTON NUS ENVIRONMENTAL CORPORATION
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EXECUTIVE SUMMARY

Dickson County Landfill is located on Eno Road approximately 1.5 miles southwest of Dickson, Dickson County, Tennessee. It was originally opened as the city dump in 1968, and was operated as an open dump until 1977 when the county purchased the property for a sanitary landfill. While it was operating as a dump, several local industries dumped trailer loads of drums in the dump. The drums contained solvents, paint wastes, and unknown wastes.

There are two surface water pathways at Dickson County Landfill, one to the south into Baker Branch, and one to west into an intermittent creek that empties into the Worley Furnace Branch. Both Baker Branch and Worley Furnace Branch empty into West Piney River upstream from the surface water intake for the city of Dickson Water Department. This is within the surface water 15-stream-mile pathway for both the surface water pathways at the landfill. The city of Dickson Water Department obtains water from two surface water intakes and two wells and supplies 29,213 residents.

The Dickson County Landfill is located on the rolling plateau of the western Highland rim, a section of the Interior Low Plateaus physiographic province. Groundwater occurs in this area in large amounts from the solution openings in the soluble limestone beds of the St. Louis and Warsaw limestones. Approximately 1,401 people obtain their drinking water from private wells or springs within a 4-mile radius of the facility.

During the field investigation 24 environmental samples were collected. The results of the investigation indicated both organic and inorganic contamination on-site as well as in the extended surface water pathway. The primary contaminants of concern in this investigation are pesticides within the landfill, heavy metals in the extended surface water pathway, and trichloroethylene in the private well 500 feet east of the landfill. Some of these contaminants could be attributable to the waste dumped between 1968 and 1977.

Based on the presence of high levels of pesticides within the dump, contamination of the surface water pathway and the presence of a downstream municipal surface water intake, the presence of two municipal wells with 4,000 feet of the landfill, and the presence of Trichloroethane (TCE) in the private well, FIT 4 recommends that Dickson County Landfill be evaluated using the HRS (effective March 14, 1991).

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1.0 INTRODUCTION

The HALLIBURTON NUS Environmental Corporation Region 4 Field Investigation Team (FIT) was tasked by the U.S. Environmental Protection Agency (EPA), Waste Management Division to conduct a Site Inspection (SI) at the Dickson County Landfill site in Dickson, Dickson County, Tennessee. The investigation was performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The task was performed to satisfy the requirements stated in Technical Directive Document (TDD) number F4-9012-02. The field investigation was conducted the week of January 28, 1990.

1.1 OBJECTIVES

The objectives of this inspection were to determine the nature of contaminants present at the site and to determine if a release of these substances has occurred or may occur. Further, this inspection sought to determine the possible pathways by which contamination could migrate from the site and the populations and environments it would potentially affect. Through these objectives, a recommendation was made regarding future activities at the site.

1.2 SCOPE OF WORK

The objectives were achieved through the completion of a number of specific tasks. These activities were to:

- Obtain and review relevant to HRS scoring of site.
- Obtain aerial photographs and maps of site, if possible.
- Obtain information on local water systems
- Evaluate target populations associated with the groundwater, surface water, air, and onsite exposure pathways.
- Conduct a survey of private wells.

- Determine location of and distance to nearest potable well.
- Develop a site sketch.
- Conduct a geophysical screening of site to determine whether buried drums may be present.
- Conduct FASP screening to identify CLP sample locations.
- Collect environmental samples.

2.0 SITE CHARACTERIZATION

2.1 SITE HISTORY

Dickson County Landfill is located on Eno Road approximately 1.5 miles southwest of Dickson, Dickson County, Tennessee (Appendix A) (Figure 1). The old section (eastern half of the property) was originally opened in 1968 as the city dump, but the property was sold to Dickson County in 1977 to be used as a sanitary landfill. Presently, Dickson County is using the newer section (western half) of the property located on the western half of the property as a sanitary landfill (Refs. 1, 2).

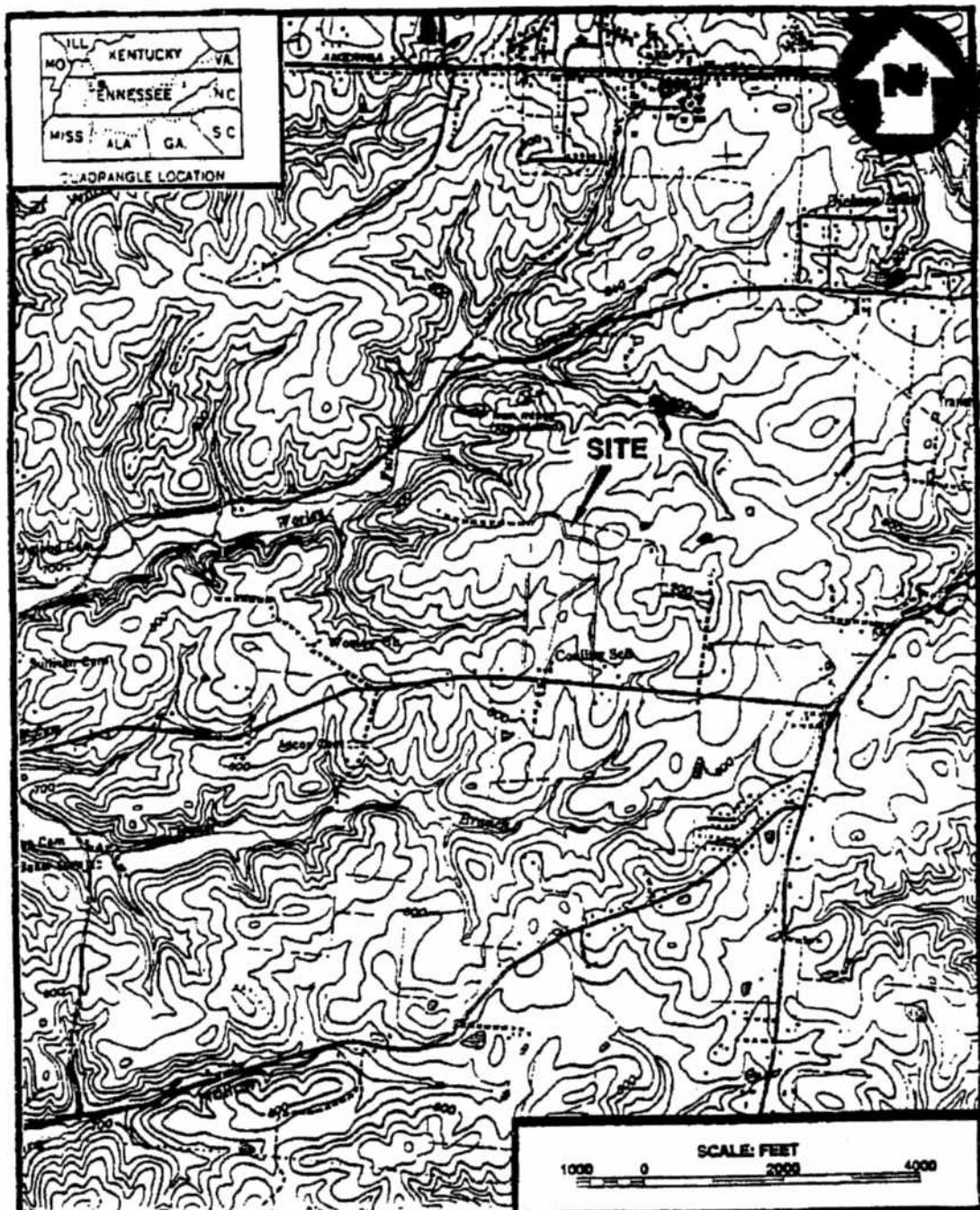
During the years the property operated as the city dump, it accepted a variety of industrial and domestic wastes. According to the superintendent of the landfill, from 1968 to 1977, Ebbtide (also known as Winner Boats) disposed of drummed wastes by the trailer load every week for a period of 3 to 4 years. The contents of the drums were suspected to be solvents used to harden fiberglass. At some time, a landfill employee attempted to open one of the drums and it exploded. Schrader Automotive Group was also thought to have dumped drums of waste solvents used to degrease automotive parts. Schrader also dumped waste at the Dickson dump from a state-enforced clean-up of their facilities in several other areas around the county (Refs. 1, 2).

After the sanitary landfill was opened in 1977, the landfill accepted only industrial waste permitted by Tennessee Solid Waste Management, and domestic waste. Some of the industrial wastes the landfill has accepted include wastes from Ebbtide's own dumps during a state-wide cleanup of that facility, Spotleak (a Mercaptan - sulfer compound mixture), excavated soil from an underground storage tank remediation, and waste from an aluminum foundry. Since it began operation as a sanitary landfill, monitoring wells have been installed and are tested every 6 months (Refs. 1, 3, 4, 5).

2.2 SITE DESCRIPTION

2.2.1 Site Features

The Dickson County Landfill occupies approximately 74 acres. The site layout is shown in Figure 2. There is a steep hill at the northern end of the property (approximately 15 feet high), that drops down to the perimeter dirt road and pond. From the north end, the property slopes gently toward the southern end. A drainage ditch was put through the middle of the old section of the landfill to control erosion of the cover soil. On the north side of the hill, at the north end of the landfill, is a



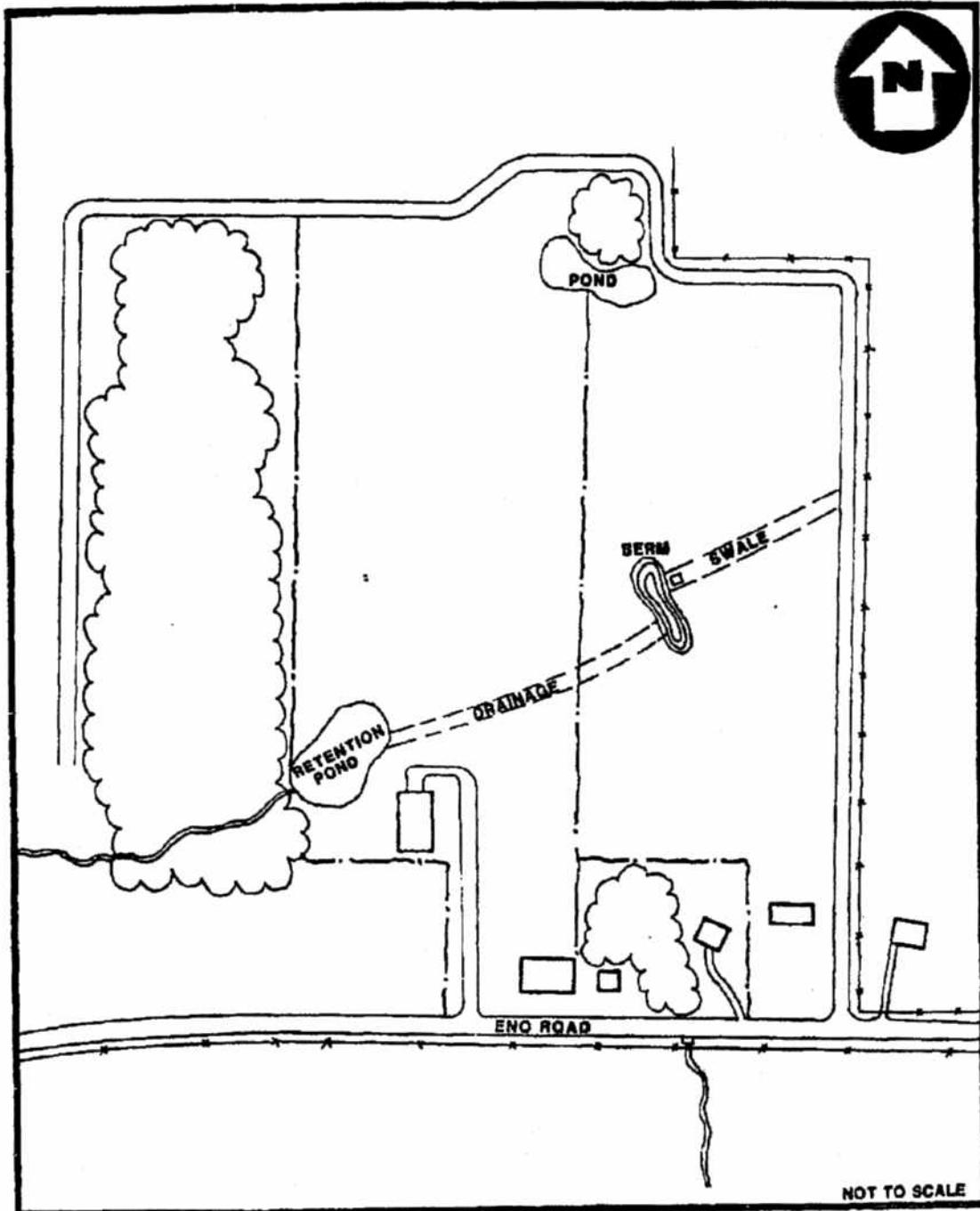
BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE DICKSON, TENNESSEE 1980.

SITE LOCATION MAP

DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 1





SITE LAYOUT MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

FIGURE 2



small wetland area and pond. There is another potential wetland area on the south end of the landfill. There are several buildings on the southern part of the landfill, including the humane society-animal shelter, a trailer office, and an equipment building. There is a retention pond on the western edge of the landfill, which drains into the unnamed creek west of the landfill, that feeds into Worley Furnace Creek (Ref. 1).

2.2.2 Waste Characteristics

The waste dumped by Ebbtide (Winner Boats) is known to contain acetone and paint waste, however, it could also contain other organic solvents. The waste dumped by Schrader Automotive Group was thought to be a degreaser used to clean automotive parts. Both of these companies brought trailer loads of drummed waste every week for a period of 3 to 4 years. Waste accepted by the sanitary landfill include unknown amounts of waste oil and coolants from the Tekside Aluminum Foundry. Empty containers of Spotleak (a Mercaptan-sulfur compound- mixture) were also brought to the landfill. Mercaptans (also called thiols) have a wide range of use from special purpose elastomers to agricultural chemicals (including pesticides, insecticides, acaricides, herbicides, and defoliants). An unknown amount of excavated soil contaminated with benzene, toluene, ethylbenzene, xylene, and petroleum hydrocarbons from an underground storage tank cleanup was also placed in the landfill (Refs. 3, 4, 5, 6).

3.0 REGIONAL POPULATIONS AND ENVIRONMENTS

3.1 POPULATION AND LAND USE

3.1.1 Demography

The area immediately surrounding the landfill is rural, with many small farms; however, within the 4-mile radius, large, residential areas exist. There is a school 1.8 miles northeast of the landfill (Appendix A). The total population within a 4-mile radius of the landfill is 8,072. Using a multiplier of 2.65 persons per household, there are 10 persons within 0 - 0.25 mile, 49 with 0.25 - 0.50 mile, 260 within 0.5 - 1 mile, 1,799 within 1 - 2 miles, 2,995 within 2 - 3 miles, 2,963 within 3 - 4 miles. Within the 4-mile radius is a country club, three schools, and many churches (appendix A, Ref. 1).

3.1.2 Land Use

The land in the immediate vicinity of the landfill is mainly small, rural farms. There is a community center and several churches within 1 mile of the landfill. There is a trailer park approximately 1.2 miles from the landfill (Ref. 1, Appendix A).

3.2 SURFACE WATER

3.2.1 Climatology

Dickson County is characterized by a temperate climate with a mean annual temperature of 59°F (Ref. 8, p. 2). The annual precipitation is 49 inches, with an annual lake evaporation of 37 inches (Ref. 9, pp. 43, 63). The net annual precipitation is 12 inches. The maximum 2-year, 24-hour rainfall is approximately 3 inches (Ref. 10).

3.2.2 Overland Drainage

There are three surface water pathways at the Dickson County Landfill. Most of the surface water flows into the natural swale in the middle of the landfill and travels west across the landfill into a retention pond on the western edge of the new landfill. From the retention pond, the surface water enters an unnamed, intermittent stream, travels 3,000 feet and joins the Worley Furnace Branch. It follows Worley Furnace Branch for 1.2 stream miles and enters the West Piney River (Appendix A,

Ref. 11). South of the swale, surface water flows to the southwest, where it forms a small, potential wetland area. The potential wetland drains into Baker Branch and flows 3-stream-miles before entering the West Piney River (Appendix A). Surface water from the northern end of the old landfill and part of the new landfill flow north to form a small wetland area north of the old landfill (Refs. 1, 11).

3.2.3 Potentially Affected Water Bodies

Both the unnamed intermittent creek that originates at the western edge of the landfill and Baker Branch join the West Piney River within 3-stream-miles of the landfill. The City of Dickson County Water Department has a surface water intake on West Piney River. The surface water intake is located 6-stream-miles from the point the intermittent creek leaves the western side of the landfill. The surface water intake is located 11.4-stream-miles from Baker Branch at the southern end of the landfill. The West Piney River is also used for recreational fishing (Ref. 12, Appendix A).

3.3 GROUNDWATER

3.3.1 Hydrogeology

The Dickson County Landfill is located on the rolling plateau of the western Highland Rim, a section of the Interior Low Plateaus physiographic province (Ref. 8, pp. 2, 3). The area is typified by a thin layer of residual soils and weathered rock called regolith overlying fractured sedimentary carbonate rocks. Secondary solution openings control most of the groundwater flow (Ref. 8, p. 7).

Formations beneath the landfill are, in descending order, the St. Louis Limestone, the Warsaw Limestone, the Fort Payne Formation, and the Chattanooga Shale (Ref. 8, p. 7). The St. Louis Limestone caps most of the uplands and generally consists of a residual clay soil containing blocks and nodules of chert at land surface (Ref. 8, p. 7). The regolith varies between 60 and 80 feet thick in this area (Ref. 14). This regolith has low permeability but large storage capabilities. The remaining St. Louis Limestone is a yellowish-brown, fine-grained, cherty limestone (Ref. 8, p. 7). The Warsaw Limestone is typically a light-colored, medium- to coarse-grained, fossil fragmental limestone. Together with the St. Louis Limestone, these formations are approximately 250 feet thick (Ref. 13, p. 26). The Fort Payne Formation is typically a calcareous, dolomitic, very cherty siltstone. The formation is approximately 100 feet thick in this area (Ref. 14). The Chattanooga shale is a fissile, black shale approximately 20 feet thick (Ref. 8, p. 7).

Groundwater occurs in this area in large amounts from the solution openings in the soluble limestone beds of the St. Louis and Warsaw limestones (Ref. 8, p. 7). Recharge is primarily through precipitation on the uplands (Ref. 7, p. 8). The dense, cherty Fort Payne Formation is generally an underlying confining layer but does yield water in some wells (Ref. 7, p. 8). The hydraulic conductivity for sediments similar to these is approximately 1.0×10^{-5} cm/sec (Ref. 15, p. 29).

3.3.2 Aquifer Use

The source of drinking water in the area around the Dickson County Landfill is from the solution openings in the St. Louis and Warsaw limestones (Ref. 8). Private wells in the area range from 100 to 300 feet below land surface (bls). There are approximately 1,304 people (492 houses $\times 2.65$ people/house) that rely on either private wells or springs for their drinking water within a 4-mile radius of the landfill. The closest private well is located approximately 500 feet east of the landfill (Ref. 11, Appendix A).

The 4-mile radius around the landfill is served by four separate municipalities. The largest is the City of Dickson Water Department. The City of Dickson Water Department has two wells (one 167 feet bls, and the other is 183 feet bls) approximately 4,000 feet east of the landfill. The two wells pump an average of 200 gallons per minute, and the water is mixed with water from the two surface water intakes before dispersal (Ref. 2, Appendix A). The City of Dickson Water Department serves approximately 9,000 connections (Ref. 2). West Piney Water Department serves the area southwest of the landfill. They purchase all their water from the city of Dickson and serve approximately 300 connections (Ref. 16). Sylvia, Tennessee City, Pond (STCP) Water Utility District serves approximately 950 connections northwest of the landfill. STCP Water Utility District purchases all their water from the city of Dickson (Ref. 17). Turnbull Water Department serves 2,200 connections southeast of the landfill. They get all their water from a surface water intake on the Turnbull River in the eastern part of the county (Ref. 18).

4.0 FIELD INVESTIGATION

4.1 GEOPHYSICAL STUDY

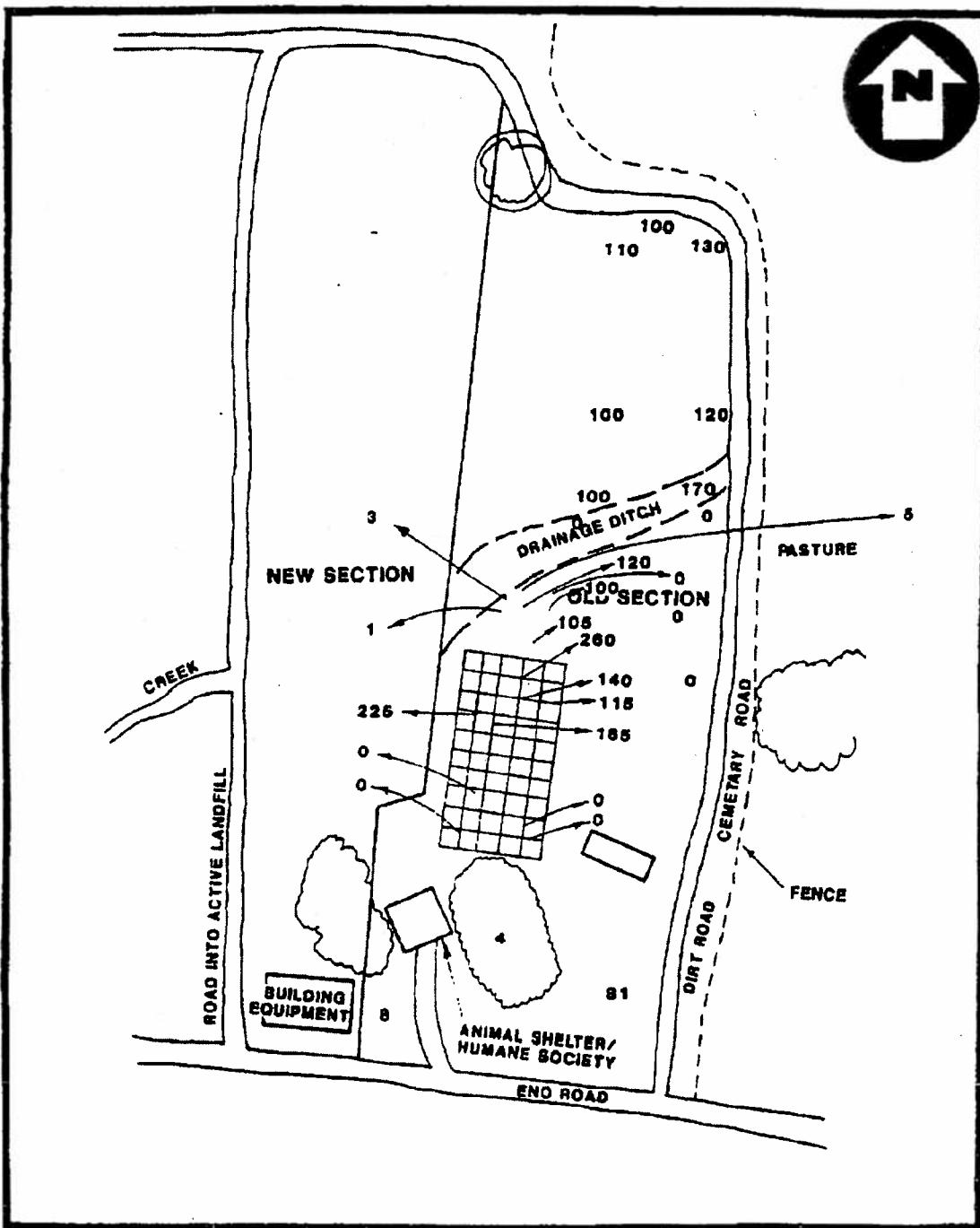
The purpose of this geophysical survey was to provide a screening technique by which sample localities for environmental sampling could be chosen by the HALLIBURTON NUS Environmental Corporation FIT 4 sampling team. In the accomplishment of this task, an area of suspected dumping on the Dickson County property was surveyed using the geophysical technique of electromagnetics. Magnetic measurements were then taken within the area to clear specific locations for subsurface drilling. Details of geophysical methods used during this screening occur in Appendix B.

4.1.1 Methodology

Two geophysical instruments were utilized in this geophysical study, a proton precession magnetometer and a non-contacting ground conductivity meter. The conductivity meter was used as the main tool for detecting buried waste. Initially, the conductivity meter was calibrated and put through a pre-operational check according to standard manufacturer's operational procedures. A base station was established immediately south of the Humane Society Animal Shelter in an area where undisturbed, local field conditions were believed to exist. The base station location was flagged with a wooden stake, and measurements were taken with the conductivity meter at this station prior to the survey. Field conditions at the base station were recorded in a field logbook (Appendix C). The background conductivity level at the base station ranged from 7 mmhos/m to 9 mmhos/m.

Virgil Bellar, the landfill manager, and Bill Griggs, a private consultant, took the geophysical team to the location of the landfill area. A cartesian coordinate grid system with geophysical stations was not originally constructed, so that the surveying process could be expedited. Instead, uncontrolled traverses were executed by taking readings along numerous lines located within the landfill boundary. Points along these lines where conductivity values showed significant increase were flagged, marking anomalously conductive areas.

After the preliminary geophysical screening had been completed, a geophysical grid was constructed across the most anomalous areas for further delineation (Figure 3). The grid measured 500 by 200 feet. The longest side of the grid (y-axis) was oriented north 7° east, and the shortest side of the grid (x-axis) was oriented east 7° south. Geophysical stations were established at 50-foot spacings on



**GEOPHYSICAL GRID LAYOUT MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

FIGURE 3



the grid. Grid station (0,0) is located in the central portion of the surveyed area. Sixty other stations are located within the survey area at grid intersections. Conductivity values were recorded at each grid station on geophysical field data sheets which are attached to Appendix C.

The final step of the geophysical screening was to clear selected grid stations for subsurface drilling. This was accomplished by tuning the magnetometer at the base station in order to obtain background readings, which were then compared to magnetic values obtained on the landfill. All magnetic values were recorded in the geophysical field logbook.

4.1.2 Geophysical Survey Results

Conductivity values recorded during the preliminary geophysical screening performed along uncontrolled traverses in the landfill area were generally between 40 and 80 mmhos/m. The highest value recorded was 260 mmhos/m, and the lowest value recorded was 0 mmhos/m. Both the high and low readings are significant relative to the 8 mmho/m average background value. Of similar significance is a 225 mmho/m reading taken immediately south of the 260 mmho/m reading. The geophysical grid for this survey was constructed around all of these anomalies.

The results of the electromagnetic conductivity survey performed at grid stations within the landfill area are presented as a computer-generated contour map which can be found in Figure 4. It represents a contoured conductivity surface of the surveyed area in units of mmhos/m. Most of the grid stations on the landfill are anomalous relative to background, with conductivity values ranging between 0 and 240 mmhos/m. There are two areas that show exceedingly anomalous conductivity values relative to other values recorded on the landfill. One of the anomalies is high (above 160 mmhos/m), and one is low (below 20 mmhos/m). The low anomaly is centered around stations (0, -4), (1, -3), and (1, -2) and is represented by hachured contour lines. The high anomaly is centered between stations (-1, 0) and (0, 2). It occurs just north of the low anomaly.

Magnetic values were recorded at all of the aforementioned grid stations that showed either excessively high or excessively low conductance. The magnetic intensity at these coordinates was observed to vary between 200 and 1,000 gammas different than background. This increased magnetic gradient indicates a concentration of buried, ferrous metal. As a result, it was recommended to the sampling teams that only manually operated probes and buckets be utilized in these source areas.

The zone of higher conductivity is interpreted to be representative of buried waste (ferrous) and possibly contaminated soil or groundwater systems. The zone of lower conductivity is interpreted to

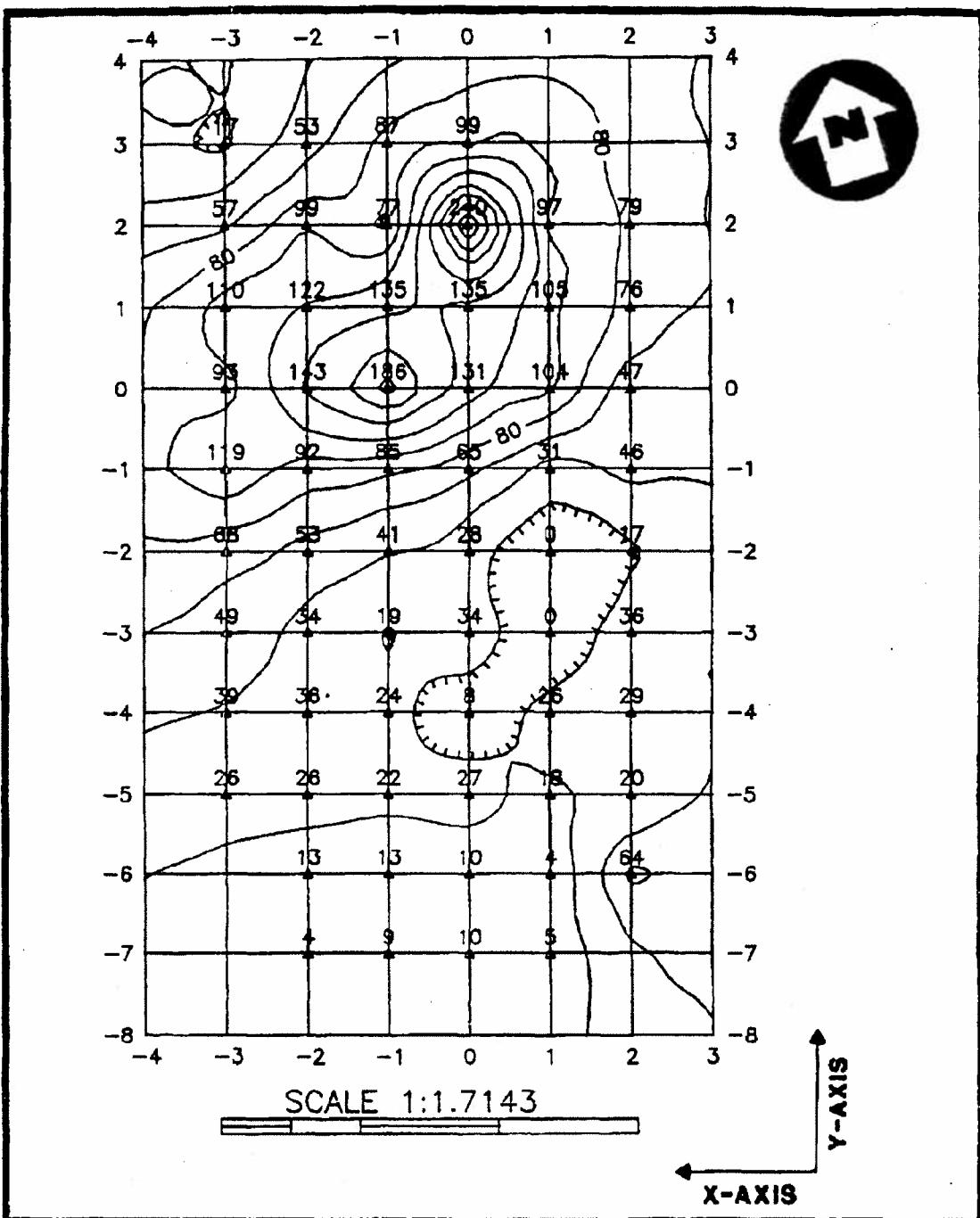


FIGURE 4



represent buried cement slabs, since the same material was observed at land surface during the surveying process. Ferrous-containing, metallic reinforcements within the cement and/or nearby, ferrous-containing demolition/construction debris may possibly account for the positive magnetic response obtained in the area.

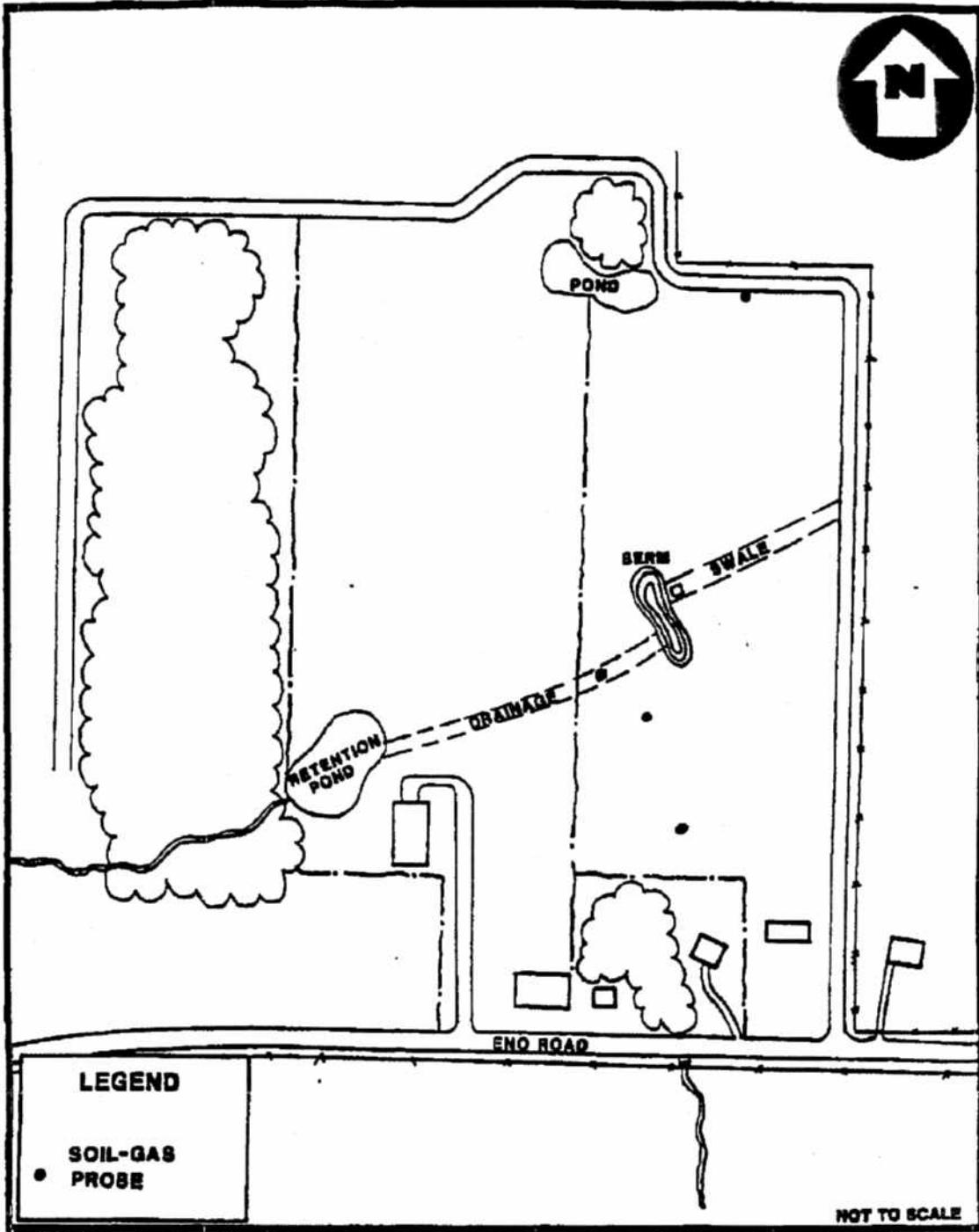
4.1.3 Geophysical Conclusions

Inorganic contaminants are known to produce an increase in free ion concentration (measured as conductivity) when introduced into underlying media. Buried waste at shallow depth is capable of producing the same electromagnetic effect. Both of these factors may have caused the conductivity "high" on the landfill. However, the direct areal correlation between the conductivity response and the magnetic intensity response suggests that the observed readings could have resulted from buried waste alone. The conductivity "low" is considered to be of lesser concern because it appears to have resulted from the burial of cement slabs. nevertheless, sample locations were chosen in the middle of both anomalies because only limited geophysical interpretations are possible with the instruments that were utilized. Therefore, the primary objective of the survey was accomplished because sample locations were selected based upon geophysical data.

4.2 FASP - FIELD ANALYTICAL SUPPORT PROJECT

A soil-gas survey was performed at Dickson County Landfill to aid in the selection of CLP sample locations. Soil-gas probes were placed near leachate outbreaks, in suspected disposal areas, and in areas screened by geophysics. A photoionization detector (HNu) was used as a direct reading instrument for measuring total volatile organic compounds (VOCs) present in the soil at the site. Also used for monitoring was the Foxboro OVA, which is sensitive to both VOCs and methane. The instruments were field checked and calibrated. A background reading was taken in the clean zone prior to use. Soil-gas probes were installed at a depth of approximately 3 feet. In some areas, water bubbled out of the hole immediately after drilling, and monitoring of soil gas was done by holding the instrument directly over the hole, rather than installing a probe. FASP recommendations are based on relative results rather than absolute values. Soil-gas monitoring identifies "clean" or "dirty" areas in the subsurface soil. This information, along with observation, file material, drainage pathway information, geophysical screening, etc. is used to select CLP sample locations. The Soil-Gas Survey Method is presented as Appendix D.

Two areas of soil-gas monitoring were done to the immediate northwest of the animal shelter (see Figure 5 for locations). All locations gave high readings on the OVA (probably methane), and a low



**SOIL-GAS PROBE LOCATION MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

FIGURE 5



concentration of VOCs was detected at probe #2, in the drainage pathway. CLP samples DL-LS-01, DL-SS-02, and DL-SB-02 were collected from this area.

A second area surveyed was located at the northern edge of the landfill, in an area of leachate outbreak (Figure 5). VOCs were detected at this location, and an odor of gas was apparent. Also, high OVA readings were recorded. CLP sample DL-LS-03 was collected at this location.

A third area screened for soil gas was directly southwest of the berm at the end of the drainage ditch (Figure 5). VOCs were detected at this location, along with a strong odor of gas, and high OVA readings. CLP sample DL-LS-02 was collected here.

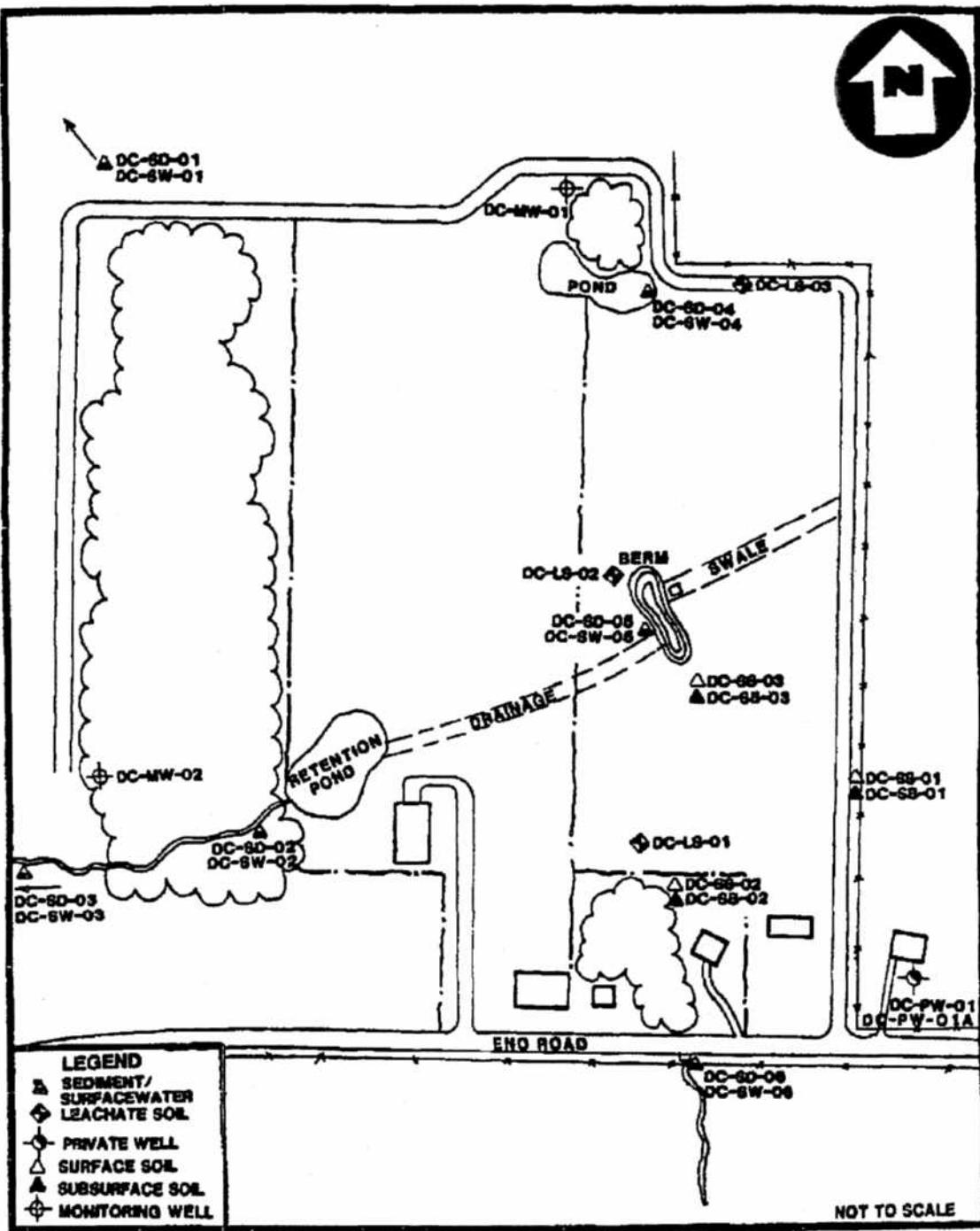
The last area of soil-gas survey was in the center of the landfill, south of the drainage ditch (Figure 4). Probe locations were chosen to coincide with the highest conductivity measurements obtained from geophysical screening. VOCs were not detected at any of these three stations. However, high OVA readings were recorded at all three probes. CLP samples DL-SS-03 and DL-SB-03 were taken in between these probes (Appendix E).

4.3 SAMPLE COLLECTION

During the field investigation, conducted January 28, 1991, FIT 4 attempted to identify and characterize contaminants which may be present in the environment as a result of activities that were conducted at Dickson County Landfill. To accomplish this, FIT 4 collected environmental surface soil, subsurface soil, surface water, sediment, leachate, and groundwater samples from a number of strategic locations. These locations were selected based on historical information, hydrogeological data for the region and site area, and direct observation at the site. Due to the detection of trichloroethylene in the private well sample, the private well was resampled on July 17, 1990 (Figure 6).

4.3.1 Sample Collection Methodology

All sample collection, sample preservation, and chain-of-custody procedures used during this investigation were in accordance with the standard operating procedures as specified in Sections 3 and 4 of the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; U.S. Environmental Protection Agency, Region IV, Environmental Services Division, April 1, 1986.



**SAMPLE LOCATION MAP
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

FIGURE 6



4.3.2 Duplicate Samples

Duplicate samples were offered to and declined by Bill Griggs, a designated representative of Dickson County Landfill. Receipt for sample forms are on file at FIT 4.

4.3.3 Description of Samples and Sample Locations

During the sampling investigation, a total of 24 environmental samples were collected. Background surface soil and subsurface soil samples were collected just off the eastern boundary of the landfill. A monitoring well at the northern edge of the landfill served as the groundwater background. Background surface water and sediment samples were collected upstream of the landfill in Worley Branch Creek. Leachate samples were compared to sediment DC-SD-01 as a background. Two surface soil and two subsurface soil samples were collected inside the landfill boundaries. Two surface water and two sediment samples were collected downstream in Worley Furnace Creek. Three other surface water and three sediment samples were collected in a wetland area at the north of the landfill, in a drainage ditch in the interior of the landfill, and in a creek south of the landfill. Three leachate samples were taken directly from leachate outbreaks. Two groundwater samples were collected, one from a monitoring well and one from a nearby private well. All sample locations are shown in Figure 6. Sample codes, descriptions, locations, and rationale are contained in Table 1.

4.3.4 Field Measurements

Field measurements were performed on all water samples (Table 2). Parameters measured included temperature, pH, and conductivity of the sample at time of collection. No field measurements were performed on the soil samples during this investigation.

4.4 SAMPLE ANALYSIS

4.4.1 Analytical Support and Methodology

All samples collected were analyzed under the Contract Laboratory Program (CLP) and analyzed for all organic and inorganic parameters listed in the Target Compound List (TCL). Organic analysis of soil and water samples was performed by Compuchem Labs of Research Triangle Park, North Carolina. Inorganic analysis of soil and water samples was performed by Southwest Labs of Oklahoma of Broken Arrow, Oklahoma.

TABLE 1

SAMPLE CODES, LOCATIONS, AND RATIONALE
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	Description	Location	Rationale	Depth (feet)
DC-SS-01	Surface Soil	Sample located east of the old dump on the east side of the dirt road that runs around the perimeter of the landfill property.	To determine background conditions for surface soil samples at the landfill	NA
DC-SS-02	Surface Soil	Sample located just north of the small, wooded area in the southwest corner of the old dump.	To determine presence or absence of contaminants	NA
DC-SS-03	Surface Soil	Sample located just south of the swale running through the middle of the old dump.	To determine presence or absence of contaminants	NA
DC-SB-01	Subsurface Soil	Sample located east of the old dump on the east side of the dirt road that runs around the perimeter of the landfill property.	To determine background conditions for subsurface soil samples at the landfill	4
DC-SB-02	Subsurface Soil	Sample located just north of the small, wooded area in the southwest corner of the old dump.	To determine presence or absence of contaminants	3
DC-SB-03	Subsurface Soil	Sample located just south of the swale running through the middle of the old dump.	To determine presence or absence of contaminants	4
DC-LS-01	Leachate	Sample located just northeast of the wooded area in the southwest corner of the old dump.	To determine presence or absence of contaminants	NA
DC-LS-02	Leachate	Sample located northwest of the berm that is located in the swale running through the old dump.	To determine presence or absence of contaminants	NA
DC-LS-03	Leachate	Sample located at the base of the hill at the northern end of the old dump.	To determine presence or absence of contaminants	NA

DC - Dickson County Landfill
 SS - Surface Soil
 SB - Subsurface Soil
 LS - Leachate

SW - Surface Water
 SD - Sediment
 MW - Groundwater, Monitoring Well
 PW - Groundwater, Private Well

TABLE 1

SAMPLE CODES, LOCATIONS, AND RATIONALE
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	Description	Location	Rationale	Depth (feet)
DC-SW-01	Surface Water	Sample collected in Worley Furnace Branch upstream of its convergence with the intermittent creek at the west edge of the landfill.	To determine the background conditions for surface water for the landfill	NA
DC-SW-02	Surface Water	Sample collected at the beginning of the intermittent creek at the west side of the landfill.	To determine the presence or absence of contaminants	NA
DC-SW-03	Surface Water	Sample collected just downstream of the convergence of Worley Furnace Branch and the intermittent stream from the west side of the landfill.	To determine the presence or absence of contaminants	NA
DC-SW-04	Surface Water	Sample collected from the pond at the north end of the landfill and old dump.	To determine the presence or absence of contaminants	NA
DC-SW-05	Surface Water	Sample collected just west of the berm in the swale running through the middle of the landfill.	To determine the presence or absence of contaminants	NA
DC-SW-06	Surface Water	Sample collected south of the old dump just south of Eno Road.	To determine the presence or absence of contaminants	NA
DC-SD-01	Sediment	Sample collected in Worley Furnace Branch upstream of its convergence with the intermittent creek at the west side of the landfill.	To determine the background conditions for sediment samples for the landfill	NA
DC-SD-02	Sediment	Sample collected at the beginning of the intermittent creek at the west side of the landfill.	To determine the presence or absence of contaminants	NA

DC - Dickson County Landfill
 SS - Surface Soil
 SB - Subsurface Soil
 LS - Leachate

SW - Surface Water
 SD - Sediment
 MW - Groundwater, Monitoring Well
 PW - Groundwater, Private Well

TABLE 1

SAMPLE CODES, LOCATIONS, AND RATIONALE
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	Description	Location	Rationale	Depth (feet)
DC-SD-03	Sediment	Sample collected just downstream of the convergence of Worley Furnace Branch with the intermittent creek at the west side of the landfill.	To determine the presence or absence of contaminants	NA
DC-SD-04	Sediment	Sample collected from the pond at the north end of the landfill and dump.	To determine the presence or absence of contaminants	NA
DC-SD-05	Sediment	Sample collected just west of the berm in the swale running through the middle of the landfill.	To determine the presence or absence of contaminants	NA
DC-SD-06	Sediment	Sample collected south of the old dump just south of Eno Road	To determine the presence or absence of contaminants	NA
DC-MW-01	Groundwater	Sample from monitoring well located in the northeast corner of the landfill just north of the pond.	To determine background conditions for groundwater at the landfill	86
DC-MW-02	Groundwater	Sample from monitoring well located in the southwest end of the wooded area west of the landfill.	To determine the presence or absence of contaminants	68
DC-PW-01	Groundwater	Sample from private well located approximately 500 feet east of the old dump.	To determine the presence or absence of contaminants	NA
DC-PW-01A	Groundwater	Resample of DC-PW-01. Taken 7-17-91.	To confirm presence of trichloroethylene	NA

DC - Dickson County Landfill
 SS - Surface Soil
 SB - Subsurface Soil
 LS - Leachate

SW - Surface Water
 SD - Sediment
 MW - Groundwater, Monitoring Well
 PW - Groundwater, Private Well

TABLE 2
FIELD MEASUREMENTS
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

Sample Code	pH	Temp. (°F)	Conductivity (umhos/cm)
DC-SW-01	7.66	49	123.2
DC-SW-02	6.73	59	57.7
DC-SW-03	7.81	58	150.3
DC-SW-04	6.41	58	156.0
DC-SW-05	7.54	56	50.8
DC-SW-06	7.45	56	37.9
DC-MW-01	8.01	58	31.5
DC-MW-02	6.62	58	118.6
DC-PW-01	7.36	58	30.7
DC-PW-01A	7.20	69	277

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Laboratory Operations and Quality Control Manual, U.S. Environmental Protection Agency (EPA), Region IV, Environmental Services Division, issued October 24, 1990; or as specified by the existing EPA standard procedures and protocols for the CLP Statement of Work, as applicable.

4.4.2 Analytical Data Quality and Data Qualifiers

All analytical data were subjected to a quality assurance review as described in the EPA Environmental Services Division laboratory data evaluation guidelines. In the tables, some of the concentrations of the organic and inorganic parameters have been flagged with a "J". This indicates that the qualitative analysis was acceptable, but the quantitative value has been estimated. A few other compounds are flagged with an "N", indicating that they were detected based on the presumptive evidence of their presence. This means that the compound was tentatively identified, and its detection cannot be used as positive identification of its presence. Results for some background samples are reported with a "U" flag. This flag means that the material was analyzed for but not detected. The reported number is the laboratory-derived minimum quantitation limit (MQL) for the compound or element in that sample. At times, miscellaneous organic compounds that do not appear on the target compound list are reported with a data set. These compounds are labeled as "JN", indicating that they are tentatively identified at estimated quantities. Because these compounds are not routinely analyzed for or reported, background levels or MQL values are not generally available for comparison. The complete analytical data sheets are presented in Appendix F. The preservative trip blank, DC-PB-01, contained 19 ug/l estimated amount of lead.

4.4.3 Presentation of Analytical Results

This section presents a discussion and interpretation of the analytical results from the environmental samples collected during the investigation at Dickson County Landfill. Results of surface soil, subsurface soil, surface water, sediment, leachate, and groundwater samples are presented in Tables 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, and 14. Background samples have been designated for all media. Values for background sample results are presented as either a measured value or as the MQL. Samples containing concentrations of contaminants greater than 3 times the background level or MQL of these contaminants are considered to be elevated. These samples are noted in the text.

TABLE 3

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/kg)	Trip Blank	Background	On Site	
	Sol		DC-SS-02	DC-SS-03
EXTRACTABLE COMPOUNDS				
DIMETHYL PHTHALATE	-	430U	67J	-
PHENANTHRENE	-	430U	57J	-
FLUORANTHENE	-	430U	85J	-
PYRENE	-	430U	68J	-
BENZO(A)ANTHRACENE	-	430U	42J	-
UNIDENTIFIED COMPOUNDS/NQ (1)	-	3000J/2	900J/1	10,000J/10
PESTICIDE/PCB COMPOUNDS				
BETA-BHC	-	1.6J	-	-
4,4'-DDE (P,P'-DDE)	-	4.3U	-	110J
4,4'-DDD (P,P'-DDD)	-	4.3U	-	22J
4,4'-DDT (P,P'-DDT)	-	4.3U	-	230J
GAMMA-CHLORDANE/Z	-	2.2U	0.60J	-
ALPHA-CHLORDANE/Z	-	2.2U	0.37J	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

U Material was analyzed for but not detected. The number given is the MQL.

(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 4
SUMMARY OF INORGANIC ANALYTICAL RESULTS
SURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (mg/kg)	Background			On Site		
	DC-SS-01	DC-SS-02	DC-SS-03	DC-SS-01	DC-SS-02	DC-SS-03
ALUMINUM	13,000J	17,000J	10,000J			
ARSENIC	6.3J	3.8J	4.1J			
BARIUM	58	53	86			
CALCIUM	210	1400	4200			
CHROMIUM	43J	37J	31J			
COBALT	13	-	-			
COPPER	26	21	130			
IRON	20,000	29,000	27,000			
LEAD	24J	20J	42J			
MAGNESIUM	790	980	610			
MANGANESE	520	160	290			
NICKEL	8.3	8.7	8.5			
POTASSIUM	560	620	420			
VANADIUM	39	46	38			
ZINC	32	46	110			

- Material analyzed for but not detected above minimum quantitation limit (MQL).
 J Estimated value.

TABLE 5

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
SUBSURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/kg)	Background			On Site		
	DC-SB-01	DC-SB-02	DC-SB-03	DC-SB-01	DC-SB-02	DC-SB-03
EXTRACTABLE COMPOUNDS						
NAPHTHALENE	400U	410U	200J			
UNIDENTIFIED COMPOUNDS/NO.(1)	800J/1			4000J/2		
PETROLEUM PRODUCT(1)					N	
PESTICIDE/PCB COMPOUNDS						
ALDRIN	2.0U	-	-	28		
GAMMA-CHLORDANE/2	2.0U	-	-	70		
ALPHA-CHLORDANE/2	2.0U	-	-	96		

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

N Presumptive evidence of presence of material.

U Material was analyzed for but not detected. The number given is the MQL.

(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 6
SUMMARY OF INORGANIC ANALYTICAL RESULTS
SUBSURFACE SOIL SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS(mg/kg)	Background	On Site	
	DC-SB-01	DC-SB-02	DC-SB-03
ALUMINUM	13,000J	13,000J	2400J
ARSENIC	3.7J	4.5J	-
BARIUM	35	40	70
CADMIUM	1.5	1.4	-
CALCIUM	88	530	1900
CHROMIUM	63J	64J	3.5J
COPPER	16	18	14
IRON	40,000	41,000	7400
LEAD	14J	10J	6.5J
MAGNESIUM	420	470	670
MANGANESE	67	120	91
NICKEL	11	14	-
POTASSIUM	350	570	180
VANADIUM	49	57	-
ZINC	35	84	140

- Material analyzed for but not detected above minimum quantitation limit (MQL).
J Estimated value.

TABLE 7

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
SURFACE WATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/l)	Background	Downstream Worley Furnace Creek			Wetland Area	Drainage Ditch	Creek South of Landfill
		DC-SW-01	DC-SW-02	DC-SW-03			
PURGEABLE COMPOUNDS							
METHYLETHYL KETONE	10U	45	-	-	-	-	-
METHYLISOBUTYL KETONE	10U	13	-	-	-	-	-
TOLUENE	10U	21	-	-	-	-	-
TOTAL XYLEMES	10U	11	-	-	-	-	-
EXTRACTABLE COMPOUNDS							
2-METHYLPHENOL	10UJ	1J	-	-	-	-	-
DIMETHYLPROPANEDIOL ⁽¹⁾		30JN	-	-	-	-	-
CYCLOHEXANE CARBOXYLIC ACID ⁽¹⁾		5JN	-	-	-	-	-
DIETHYLMETHYL BENZAMIDE ⁽¹⁾		6JN	-	-	4JN	-	-
BENZOTHIAZOLONE ⁽¹⁾		-	-	-	4JN	-	-
UNIDENTIFIED COMPOUNDS/NO. ⁽¹⁾		-	-	-	-	-	-
PESTICIDE/PCB COMPOUNDS		-	-	-	-	-	-
GAMMA-BHC (LINDANE)	0.050U	0.026J	-	-	-	-	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

N Presumptive evidence of presence of material.

U Material was analyzed for but not detected. The number given is the MQL.

(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 8

**SUMMARY OF INORGANIC ANALYTICAL RESULTS
SURFACE WATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/l)	Background	Downstream Worley Furnace Creek			Wetland Area	Drainage Ditch	Creek South of Landfill
		DC-SW-01	DC-SW-02	DC-SW-03			
ALUMINUM	84	570	63	2000	-	-	84
BARIUM	17	130	16	63	70	-	93
CALCIUM	22,000	48,000	23,000	9700	35,000	-	69,000
IRON	40U	10,000	-	-	11,000	530	-
LEAD	5UJ	5J	-	-	7J	6J	-
MAGNESIUM	2100	16,000	2700	3100	12,000	-	11,000
MANGANESE	5U	3200	-	-	1800	460	17
POTASSIUM	640U	14,000	-	-	1500	15,000	4900
SODIUM	1600U	56,000	-	-	-	62,000	12,000
VANADIUM	2U	-	-	-	6	-	-
ZINC	3UJ	-	-	-	26J	-	-
CYANIDE	12U	-	-	-	-	20	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

U Material was analyzed for but not detected. The number given is the MQL.

TABLE 9

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/kg)	Background	Downstream Worley Furnace Creek			Wetland Area	Drainage Ditch	Creek South of Landfill
		DC-SD-01	DC-SD-02	DC-SD-03			
PURGEABLE COMPOUNDS							
CHLOROFORM		15U	-	-	-	-	58
EXTRACTABLE COMPOUNDS							
PHENANTHRENE		500U	-	-	-	-	310J
ANTHRACENE		500U	-	-	-	-	51J
FLUORANTHENE		500U	60J	-	-	-	410J
PYRFNE		500U	69J	-	-	-	270J
BENZYL BUTYL PHTHALATE		500U	-	-	-	-	560
BENZO(A)ANTHRACENE		500U	-	-	-	-	190J
CHRYSENE		500U	-	-	-	-	170J
TRIBROMOPHENOL (NOT 2,4,6-)(1)		-	-	-	-	-	200JN
UNIDENTIFIED COMPOUNDS(No (1))		6000J/3	5000J/4	900J/1	2000J/1	4000J/1	7000J/8
PETROLEUM PRODUCT(1)		-	-	-	-	-	N
PESTICIDE/PCB COMPOUNDS							
GAMMA-BHC (LINDANE)		2.5U	0.42J	-	-	-	-
ALDRIN		2.5U	-	-	-	-	0.37J

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

N Presumptive evidence of presence of material.

U Material was analyzed for but not detected. The number given is the MQL.

(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 9

SUMMARY OF ORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/kg)	Background	Downstream Worley Furnace Creek			Wetland Area	Drainage Ditch	Creek South of Landfill
		DC-SD-01	DC-SD-02	DC-SD-03			
4,4'-DDE (P,P'-DDE)	4.9U	-	-	-	-	-	-
4,4'-DDD (P,P'-DDD)	4.9U	-	-	-	-	-	-
GAMMA-CHLORDANE/2	2.5U	1.0J	-	-	-	-	3.1
ALPHA-CHLORDANE/2	2.5U	0.28J	-	-	-	-	-

Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value

N Presumptive evidence of presence of material

U Material was analyzed for but not detected. The number given is the MQL.

T Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 10

**SUMMARY OF INORGANIC ANALYTICAL RESULTS
SEDIMENT SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (mg/kg)	Background	Downstream Worley Furnace Creek			Wetland Area	Drainage Ditch	Creek South of Landfill
		DC-SD-01	DC-SD-02	DC-SD-03			
ALUMINUM	4500J	18,000J	2500J	8500J	8300J	-	3700J
ARSENIC	4.4J	5.6J	2.8J	5.2J	-	-	3.5J
BARIUM	58	60	25	66	25	-	17
CADMIUM	1	-	-	-	-	-	-
CALCIUM	1600	1600	1500	1400	500	-	38,000
CHROMIUM	38J	37J	31J	26J	29J	-	33J
COBALT	20U	-	29	-	-	-	-
COPPER	17	25	13	19	15	-	22
IRON	19,000	25,000	14,000	22,000	25,000	-	18,000
LEAD	12J	15J	7.3J	20J	8.6J	-	27J
MAGNESIUM	250	1200	110	710	350	-	7100
MANGANESE	830	200	880	460	100	-	140
NICKEL	13	13	30	6.5	-	-	6.2
POTASSIUM	230	840	170	300	300	-	330
VANADIUM	25	52	19	29	34	-	23
ZINC	56	53	52	43	18	-	40

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

U Material was analyzed for but not detected. The number given is the MQL.

TABLE 11

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
LEACHATE SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/kg)	Background	Leachate Samples		
	DC-SD-01	DC-LS-01	DC-LS-02	DC-LS-03
PURGEABLE COMPOUNDS				
TOTAL XYLEMES	-	-	14	-
EXTRACTABLE COMPOUNDS				
DIMETHYL PHTHALATE	500U	77J	-	-
DI-N-BUTYLPHTHALATE	500U	81J	-	-
HEXADECANOIC ACID(1)	-	200JN	-	-
UNIDENTIFIED COMPOUNDS(NO.(1))	6000/3	5000/3	800/J1	-
PESTICIDE/COPRODUCTS				
4,4'-DDE (P,P'-DDE)	4.9U	2.4J	-	-
4,4'-DDD (P,P'-DDD)	4.9U	14	-	-
4,4'-DDT (P,P'-DDT)	-	-	-	-
GAMMA-CHLORDANE/2	2.5U	5.4	0.30J	-
ALPHA-CHLORDANE/2	2.5U	2.0J	-	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

N Presumptive evidence of presence of material.

U Material was analyzed for but not detected. The number given is the MQL.

(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 12
SUMMARY OF INORGANIC ANALYTICAL RESULTS
LEACHATE SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (mg/kg)	Background	Leachate Samples		
	DC-SD-01	DC-LS-01	DC-LS-02	DC-LS-03
ALUMINUM	4500J	9300J	15,000J	13,000
ARSENIC	4.4J	5.3J	3.6J	4.4J
BARIUM	58	53	31	32
CADMIUM	1	-	-	-
CALCIUM	1600	4500	1000	380
CHROMIUM	38J	37J	31J	31J
COPPER	17	40	29	17
IRON	19,000	27,000	28,000	25,000
LEAD	12J	49J	12J	11J
MAGNESIUM	250	720	780	530
MANGANESE	830	320	47	95
NICKEL	13	9.5	6	6.8
POTASSIUM	230	430	1000	520
VANADIUM	25	43	43	41
ZINC	56	180	34	27

- Material analyzed for but not detected above minimum quantitation limit (MQL).
 J Estimated value.

TABLE 13

**SUMMARY OF ORGANIC ANALYTICAL RESULTS
GROUNDWATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE**

PARAMETERS (ug/l)	Water	Background	Monitoring Well	Private Well	
	Trip Blank			DC-PW-01	DC-PW-01A
PURGEABLE COMPOUNDS					
CARBON DISULFIDE	-	69	-	-	-
1,2-DICHLOROETHENE (TOTAL)	-	10U	-	13	13
TRICHLOROETHENE(TRICHLOROETHYLENE)	-	10U	-	26	3.9J
ACETALDEHYDE ⁽¹⁾	-	-	-	-	7JN
EXTRACTABLE COMPOUNDS					
AMINOHXANOIC ACID ⁽¹⁾	-	500JN	20JN	-	-
BUTYL IDENE(BIS(DIMETHYLETHYL))METHYLPHENOL ⁽¹⁾	-	10JN	-	-	-
UNIDENTIFIED COMPOUNDS/NO ⁽¹⁾	-	4QJ2	-	-	-

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

N Presumptive evidence of presence of material.

U Material was analyzed for but not detected. The number given is the MQL.

(1) Tentatively identified and unidentified compounds. This compound is not on Target Compound List and is reported only as detected in individual samples; MQL not determined.

TABLE 14
SUMMARY OF INORGANIC ANALYTICAL RESULTS
GROUNDWATER SAMPLES
DICKSON COUNTY LANDFILL
DICKSON, DICKSON COUNTY, TENNESSEE

PARAMETERS (ug/l)	Preservative Blank	Background DC-MW-01	Onsite Well DC-MW-02	Private Well	
	DC-PB-01			DC-PW-01	DC-PW-01A
ALUMINUM	-	900	7600	-	58
BARIUM	-	20	89	-	8.0
CALCIUM	-	51,000	35,000	43,000	46
CHROMIUM	-	11	13	-	-
COPPER	-	4U	12	11	23
IRON	-	1600	8800	-	0.017
LEAD	19J	8J	18J	11J	-
MAGNESIUM	-	4500	1600	5000	49
MANGANESE	-	130	2100	-	-
NICKEL	-	9U	29	-	-
POTASSIUM	-	2000	870	-	-
STRONTIUM	-	-	-	-	82
TITANIUM	-	-	-	-	54
VANADIUM	-	5U	15	-	-
ZINC	-	120J	87J	230J	250

- Material analyzed for but not detected above minimum quantitation limit (MQL).

J Estimated value.

U Material was analyzed for but not detected. The number given is the MQL.

4.4.3.1 Summary of Organic Analytical Results

Elevated levels of several pesticides were detected in sample DC-SS-03, taken from the middle portion of the landfill. These included DDE (26 times MQL, estimated), DDD (5 times MQL, estimated), and DDT (53 times MQL, estimated). Unidentified extractables were found in all the surface soil samples (Table 3).

Pesticides were also detected in the subsurface sample DC-SB-03: gamma-chlordane/2 (35 times MQL) and alpha-chlordane/2 (48 times MQL). Also found in this sample were unidentified extractables and evidence of petroleum product. No other elevated organics were found in subsurface soil samples (Table 5).

Methyl ethyl ketone was detected in sample DC-SW-02 at 4.5 times MQL. Three miscellaneous and one unidentified compound were also found in this sample, which was taken near the retention pond in the landfill. Two miscellaneous organics were detected in sample DC-SW-05 (Table 7).

Sediment sample DC-SD-06 contained chloroform (4 times MQL), evidence of petroleum product, and low levels of several polycyclic aromatic hydrocarbons. Unidentified extractables were found in all sediment samples (Table 9). Leachate samples DC-LS-01 and DC-LS-02 also contained unidentified extractable organics (Table 11).

Carbon dioxide was detected in the background groundwater sample. Presumptive evidence of an estimated 7 ug/l of acetaldehyde was detected in DC-PW-01A as well as low levels of trichloroethylene. Elevated levels (26 ug/l) of trichloroethylene were detected in DC-PW-01. Trichloroethylene is traditionally used as a degreasing solvent (Refs. 19, p. 829; 20, pp. 296-299).

4.4.3.2 Summary of Inorganic Analytical Results

Few inorganics were found at elevated levels in surface soil samples. Sample DC-SS-03 contained copper (5 times background) and zinc (3 times background). Calcium and zinc were also found at elevated levels in subsurface soil. Samples DC-SB-02 and DC-SB-03 contained calcium (6 and 21 times background), and sample DC-SB-03 contained zinc (4 times background) (Table 6).

Surface water samples contained a wide variety of inorganics. Sample DC-SW-02, collected from Worley Furnace Creek downstream of the landfill, contained aluminum (7 times background), iron (250 times MQL), barium (8 times background), magnesium (640 times MQL), potassium (22 times MQL), and sodium (35 times MQL). Sample DC-SW-04, taken from a pond in the northern part of the

landfill, contained iron (275 times MQL), aluminum (24 times background), barium (4 times background), vanadium (3 times MQL), zinc (9 times MQL), and magnesium (360 times MQL). Barium (4 times background), iron (13 times MQL), sodium (39 times MQL), potassium (23 times MQL), and magnesium (92 times MQL) were detected in sample DC-SW-05, collected from a run-off pipe in the center of the landfill. Surface water sample DC-SW-06 was taken from a creek just south of the landfill. This sample contained elevated levels of calcium (3 times background), barium (5 times background), magnesium (3 times MQL), potassium (8 times MQL), and sodium (8 times MQL) (Table 8).

Sediment samples did not contain elevated levels of inorganics, with the exception of DC-SD-02 and DC-SD-06. Sample DC-SD-02 had elevated aluminum (4 times background), magnesium (5 times background), and potassium (4 times background). Calcium (24 times background) and magnesium (28 times background) were detected in sample DC-SD-06 (Table 10).

Zinc was detected in leachate sample DC-LS-01 (3 times background). Elevated levels of potassium (4 times background), magnesium (3 times background), lead (4 times background), and aluminum (3 times background) were found in sample DC-LS-02 (Table 12).

Sample DC-MW-02 contained elevated levels of iron (5 times background), copper (3 times MQL), barium (4 times background), nickel (3 times MQL), vanadium (3 times MQL), manganese (16 times background), and aluminum (8 times background). Sample DC-PW-01A contained elevated levels of copper (5.8 times MQL), strontium (82 ug/l), and titanium (5.4 ug/l) (Table 14).

5.0 SUMMARY

Dickson County Landfill was originally opened as the city dump in 1968 and was operated as an open dump until the county purchased the property to use as a landfill. During the time it was operated as a dump, several industries dumped trailer loads of drums at the dump. These drums contained solvents, paint wastes, and unknown wastes. The surface water pathways are the primary pathways of concern at Dickson County Landfill. Approximately 29,213 (10,250 connections x 2.85 people/household) receive water from the City of Dickson Water Department. The City of Dickson Water Department obtains its water from two wells (located within 4,000 feet of the landfill) and two surface water intakes (one on the West Piney River and one on Dickson Lake). The surface water pathways leaving Dickson County Landfill both lead to the West Piney River within 15-stream-miles (the southwest surface water pathway is approximately 6-downstream-miles; the southern surface water pathway is approximately 12-downstream-miles. Also, 1,402 people obtain drinking water from private wells or springs within a 4-mile radius of the landfill.

A total of 24 environmental samples were collected during the field investigation conducted the week of January 28, 1991. The samples consisted of three surface soil, subsurface soil, three leachate, six sediment, six surface water, two monitoring well, and one private well sample. The primary findings of this investigation were contaminated surface and subsurface soils, surface water, sediment, and a nearby private well. Surface water samples contained a variety of inorganic contaminants, methyl ethyl ketone, and two miscellaneous organics. One sediment sample contained chloroform, several polycyclic aromatic hydrocarbons, and evidence of petroleum product. A nearby private well was contaminated with low levels of trichloroethylene. The surface and subsurface soil samples collected within the landfill contained substantially elevated levels of pesticides. The leachate samples contained unidentified organics and various inorganic contaminants.

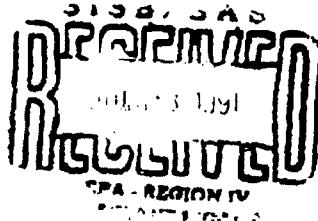
Based on the presence of elevated levels of pesticides within the landfill, the contamination of surface water and sediment samples, the presence of a downstream surface water intake for the City of Dickson Water Department, the presence of two municipal wells within 4,000 feet of the landfill, and the presence of trichloroethylene in the private well, FIT 4 recommends that Dickson County Landfill be evaluated using the HRS (effective March 14, 1991).



1927 LAKEBIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404 938-7710

C-586-6-1-93

June 30, 1991



Mr. Bernie Hayes
Chief, Groundwater Technology Unit
Groundwater Protection Branch
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject: Potable Well Water Samples
Dickson County Landfill
Dickson, Dickson County, Tennessee
TDD No. F4-9012-02

Dear Mr. Hayes:

On January 31, 1991, HALLIBURTON NUS Environmental Corporation (EPA-FIT) obtained water samples from a private well at the following address:

Sample Number	Address
PW-01	Mr. Harry Holt Box 340 Eno Road Dickson, Tennessee 37055

Two (2) copies of the respective laboratory analyses are enclosed with a sample location map. If you have any questions regarding this matter, feel free to contact me at this office (404) 938-7710

Very truly yours,

Approved:

T. Gary Benfield

[Signature]

T. Gary Benfield
Project Manager

TGB/jec

Enclosures

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 01-288 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G REINFIELD
 SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
 STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AAS7

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
1OU	CHLOROMETHANE	1OU	1,2-DICHLOROPROPANE
1OU	BROMOMETHANE	1OU	CIS-1,2-DICHLOROPROPENE
1OU	VINYL CHLORIDE	2S	TRICHLOROETHENE (TRICHLOROETHYLENE)
1OU	CHLOROETHANE	1OU	DI-BROMOCHLOROMETHANE
1OU	METHYLENE CHLORIDE	1OU	1,1,2-TRICHLOROETHANE
1OU	ACETONE	1OU	BENZENE
1OU	CARBON DISULFIDE	1OU	TRANS-1,3-DICHLOROPROPENE
1OU	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	1OU	BROMOFORM
1OU	1,1-DICHLOROETHANE	1OU	METHYL ISOBUTYL KETONE
1OU	1,1-DICHLOROETHANE (TOTAL)	1OU	METHYL BUTYL KETONE
1OU	CHLOROFORM	1OU	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1OU	1,2-DICHLOROETHANE	1OU	1,2,2-TETRACHLOROETHANE
1OU	METHYL ETYL KETONE	1OU	TOLUENE
1OU	1,1,1-TRICHLOROETHANE	1OU	CHLOROBENZENE
1OU	CARBON TETRACHLORIDE	1OU	ETHYL BENZENE
1OU	BROMODICHLOROMETHANE	1OU	STYRENE
		1OU	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 01-288 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: HSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. I.F CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA57

***** ANALYTICAL RESULTS *****

UG/L ANALYTICAL RESULTS

0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1018 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DDD (P,P'-DDD)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1246 (AROCOLOR 1246)
0.10U	4,4'-DDT (P,P'-DDT)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54433 SAMPLE TYPE: GROUNDWA PROD ELEMENT: NSF COLLECTED BY: C BEINFIELD
 *** SOURCE: DICKSON CO. LF COLLECTOR: C BEINFIELD ST: IN
 *** STATION ID: PW-01 COLLECTION START: 01/29/91 0000 STOP: 00/00/00
 *** CASE NUMBER: 15773 MD NUMBER: AAS7

UG/L	ANALYTICAL RESULTS
470	ALUMINUM
300	ANTIMONY
40	ARSENIC
80	BARIUM
10	BERYLLIUM
20	CADMIUM
40000	CALCIUM
30	CHROMIUM
30	COBALT
11	COPPER
200	IRON
110	LEAD
5000	MAGNESIUM

UG/L	ANALYTICAL RESULTS
20	MANGANESE
200	MERCURY
90	NICKEL
6400	POTASSIUM
10	SELENIUM
40	SILVER
19000	SODIUM
20	THALLIUM
NA	TIN
20	VANADIUM
2300	ZINC

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO.: 1-268 SAMPLE NO.: 54433 SAMPLE TYPE: GROUNDBW PROG ELEM: NEF COLLECTED BY: G REINFIELD
SCHOOL: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PR-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA57 MD NO.: AA57

RESULTS UNITS PARAMETER
12U UD/L CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-286 SAMPLE NO. 54439 SAMPLE TYPE: GROUNDWA PROG. ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF ST: TN
*** STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: AAS7

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U C15-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	28 TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U 1,2-BROMOCHLOROMETHANE
10U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U CHLOROFORM	10U 1,1,2,2-TETRACHLOROETHANE
10U 1,2-DICHLOROETHANE	10U TOLUENE
10U METHYL ETHYL KETONE	10U CHLOROBENZENE
10U 1,1,1-TRICHLOROETHANE	10U ETHYL BENZENE
10U CARBON TETRACHLORIDE	10U STYRENE
10U BROMODICHLOROMETHANE	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROC ELEM: NSF COLLECTED BY: C BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST. TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0800 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

Q. NO.: AA57

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OU PHENOL	SOU 3-NITROANILINE
1OU BIS(2-CHLOROETHYL) ETHER	1OU 2,4-DINITROPHENOL
1OU 2-CHLOROPHENOL	1OU 4-NITROPHENOL
1OU 1,3-DICHLOROBENZENE	1OU DIBENZOFURAN
1OU 1,4-DICHLOROBENZENE	1OU 2,4-DINITROTOLUENE
1OU 1,2-DICHLOROBENZENE	1OU DIETHYL PHTHALATE
1OU 2-METHYLPHENOL	1OU 4-CHLOROPHENYL PHENYL ETHER
1OU 2,2'-CHLOROISOPROPYLETHER	1OU FLUORENE
1OU (3-AND/OR 4-)METHYLPHENOL	1OU 4-NITROANILINE
1OU N-NITROSO(DI-N-PROPYLAMINE	1OU 2-METHYL-4,6-DINITROPHENOL
1OU HEXACHLOROBUTANE	1OU N-NITROSO(DIPHENYLAMINE/DIPHENYLAMINE
1OU NITROBENZENE	1OU 4-BROMOPHENYL PHENYL ETHER
1OU ISOPHORONE	1OU HEXACHLOROBENZENE (HCB)
1OU 2-NITROPHENOL	1OU PENTACHLOROPHENOL
1OU 2,4-DICHLOROPHENOL	1OU PHENANTHRENE
1OU BIS(2-CHLOROETHYL) METHANE	1OU ANTHRACENE
1OU 2,4-DICHLOROPHENOL	1OU CARBAZOLE
1OU 1,2,4-TRICHLOROBENZENE	1OU DI-N-BUTYLPHthalate
1OU NAPHTHALENE	1OU FLUORANTHENE
1OU 4-CHLORDANTHENE	1OU PYRENE
1OU HEXACHLOROBUTADIENE	1OU BENZYLBUTYL PHTHALATE
1OU 4-CHLORO-3-METHYLPHENOL	1OU 3,3'-DICHLOROBENZIDINE
1OU 2-METHYLNAPHTHALENE	1OU BENZO[2]PYRAN
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)	1OU CHRYSENE
1OU 2,4,6-TRICHLOROPHENOL	1OU BIS(2-ETHYLHEXYL) PHTHALATE
1OU 2,4,4-TRICHLOROPHENOL	1OU DI-N-OCTYLPHthalate
1OU 2-CHLORONAPHTHALENE	1OU BENZO(A AND/OR K)FLUORANTHENE
1OU 2-NITRODANILINE	1OU BENZO-A-PYRENE
1OU DIMETHYL PHTHALATE	1OU INDENO (1,2,3-CD) PYRENE
1OU ACENAPHTHYLENE	1OU DIBENZO(A,H)ANTHRACENE
1OU 2,6-DINITROTOLUENE	1OU BENZO(GH)PERYLENE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54433 SAMPLE TYPE: GROUNDWATER
 SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 STATION ID: PW-01 CITY: DICKSON ST: TN COLLECTION START: 01/29/91 0900 STOP: 00/00/00
 CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA57

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.00U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	DDD (P,P'-DDD)	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	ENDOSULFAN SULFATE		
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

METALS DATA REPORT

•• PROJECT NO: 91-266 SAMPLE NO: 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: C BEINFIELD
 •• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 •• STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
 •• CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AAS7

•• * * * * * ANALYTICAL RESULTS

47U	ALUMINUM
30U	ANTIMONY
4U	ARSENIC
8U	BARIUM
1U	BERILLIUM
2U	CADMIUM
43000	CALCIUM
3U	CHROMIUM
3U	COBALT
11	COPPER
20U	IRON
11J	LEAD
5000	MAGNESIUM

•• * * * * * ANALYTICAL RESULTS

2U	MANGANESE
20U	MERCURY
9U	MICRO
640U	POTASSIUM
1U	SELENIUM
4U	SILVER
1900U	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
230J	ZINC

•••REMARKS•••

•••REMARKS•••

••FOOTNOTES••

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

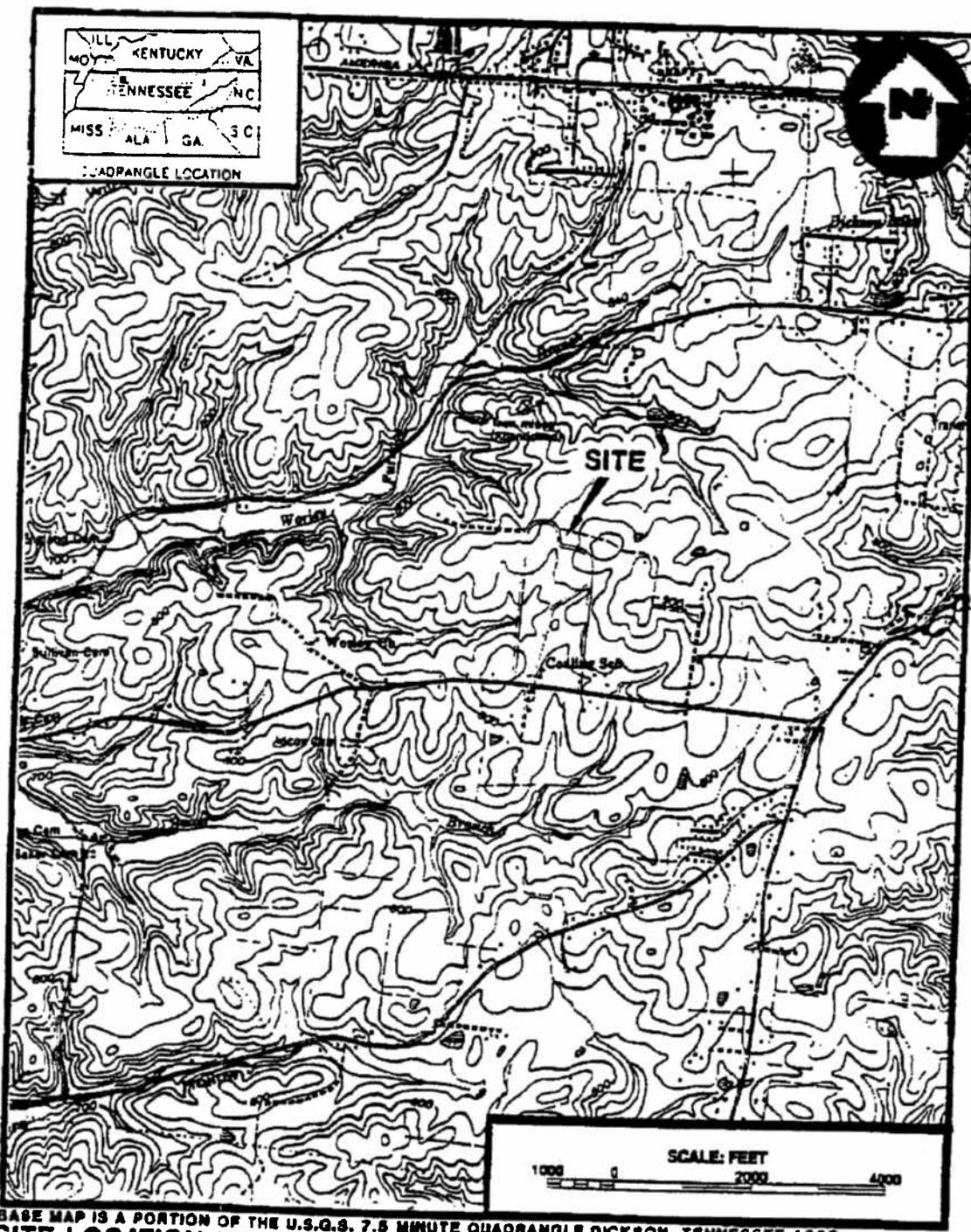
03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROD ELEM: NSF COLLECTED BY: G BEINFIELD
STATE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: P001 COLLECTION START: 01/29/91 CBRO STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA57 MD NO.: AA57

RESULTS UNITS PARAMETER
120 UG/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.



BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE DICKSON, TENNESSEE 1986.

SITE LOCATION MAP

DICKSON COUNTY LANDFILL

DICKSON, DICKSON COUNTY, TENNESSEE

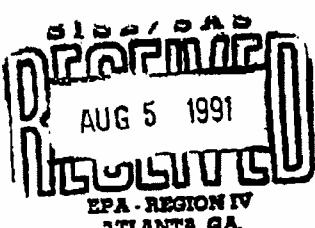
FIGURE 1

710981 407473

SITE [REDACTED] (FIT) STATE [REDACTED] MANAGER ROGER FRANKLIN (NUS)
PROJECT # 91-833 SHIPWEEK 07/15/91

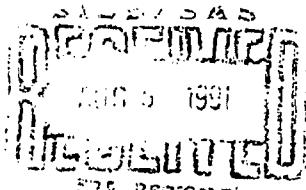
SOILVOA BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OVOA BOOKED	2	DATA RECEIVED	08/05/91	FOR	2 SAMPLES
SOILEXT BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OEXT BOOKED	2	DATA RECEIVED	/ /	FOR	SAMPLES
SOILPEST BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OPEST BOOKED	2	DATA RECEIVED	/ /	FOR	SAMPLES
SOILMET BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OMET BOOKED	2	DATA RECEIVED	08/05/91	FOR	2 SAMPLES
SOILCN BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OCN BOOKED	2	DATA RECEIVED	/ /	FOR	SAMPLES
SOILOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
SOILOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
H2OOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
OTHER1 BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
OTHER2 BOOKED	0	DATA RECEIVED	/ /	FOR	SAMPLES
LAB(CLP/ESD)	ESD				

REMARKS RUSH TURNAROUND ORIGINAL VOA RESULTS RECVD 7/29/91



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613



*****MEMORANDUM*****

DATE: 07/27/91

SUBJECT: Results of Purgeable Organic Analysis;
91-833 DICKSON COUNTY LF
DICKSON TN

FROM: Frank Allen, Chemist *JAAS*

TO: PHIL BLACKWELL

THRU: Tom B. Bennett, Jr.
Chief, Organic Chemistry Section *OTM*

Attached are the results of analysis of samples collected as part of
the subject project.

If you have any questions please contact me.

ATTACHMENT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/26/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO: 91-833 SAMPLE NO: 60226 SAMPLE TYPE: BLKWA PROG ELEM: NSF COLLECTED BY: R YOUNG
** SOURCE: DICKSON COUNTY LE CITY: DICKSON ST: TN
** STATION ID: 1B-01W TRIP BLANK COLLECTION START: 07/23/91 STOP: 00/00/00 ***

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE	5.0U	CIS-1, 3-DICHLOROPROPENE
5.0U	VINYL CHLORIDE	12U	METHYL ISOBUTYL KETONE
5.0U	BROMOMETHANE	5.0U	TOLUENE
5.0U	CHLOROETHANE	5.0U	TRANS-1, 3-DICHLOROPROPENE
5.0U	TRICHLOROFLUOROMETHANE	5.0U	1, 1, 2-TRICHLOROETHANE
5.0U	1, 1, 1-TRICHLOROETHANE (1, 1-DICHLOROETHYLENE)	5.0U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
5.0U	ACETONE	5.0U	1, 3-DICHLOROPROPANE
12U	CARBON DISULFIDE	12U	METHYL BUTYL KETONE
5.0U	METHYLENE CHLORIDE	5.0U	DIBROMOCHLOROMETHANE
5.0U	TRANS-1, 2-DICHLOROETHENE	5.0U	CHLOROBENZENE
5.0U	1, 1-DICHLOROETHANE	5.0U	1, 1, 1-TRICHLOROETHANE
12U	VINYL ACETATE	5.0U	ETHYL BENZENE
5.0U	CIS-1, 2-DICHLOROETHENE	5.0U	(M, AND/OR P-)XYLENE
5.0U	2, 2-DICHLOROPROPANE	5.0U	O-XYLENE
5.0U	METHYL ETHYL KETONE	5.0U	STYRENE
5.0U	BROMOCHLOROMETHANE	5.0U	BROMOFORM
5.0U	CHLOROPROPANE	5.0U	BROMOBENZENE
5.0U	1, 1, 1-TRICHLOROETHANE	5.0U	1, 1, 2, 2-TETRACHLOROETHANE
5.0U	1, 1-DICHLOROPROPENE	5.0U	1, 2, 3-TRICHLOROPROPANE
5.0U	CARBON TETRACHLORIDE	5.0U	O-CHLOROTOLUENE
5.0U	1, 2-DICHLOROETHANE	5.0U	P-CHLOROTOLUENE
5.0U	BENZENE	5.0U	1, 3-DICHLOROBENZENE
5.0U	TRICHLOROETHENE (TRICHLOROETHYLENE)	5.0U	1, 4-DICHLOROBENZENE
5.0U	1, 2-DICHLOROPROPANE	5.0U	1, 2-DICHLOROBENZENE
5.0U	DIBROMOMETHANE		
5.0U	BROMODICHLOROMETHANE		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N=INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/26/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 60227 SAMPLE TYPE: DRKWA PROG ELEM: NSF COLLECTED BY: R YOUNG
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: PW-01A PRIVATE WELL COLLECTION START: 07/24/91 1035 STOP: 00/00/00

ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5.0U	ACETONE
12U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
12U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
5.0U	METHYL ISOBUTYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
3.9J	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	BROMODICHLOROMETHANE
5.0U	
5.0U	CIS-1,2-DICHLOROPROPENE
12U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
12U	METHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
5.0U	1,1,1,2-TETRACHLOROETHANE
5.0U	1-METHYL BENZENE
5.0U	(M-XYLIC OR P-XYLIC)
5.0U	O-XYLENE
5.0U	STYRENE
5.0U	BROMOFORM
5.0U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
5.0U	1,2,3-TRICHLOROPROPANE
5.0U	O-CHLOROTOLUENE
5.0U	P-CHLOROTOLUENE
5.0U	1,3-DICHLOROBENZENE
5.0U	1,4-DICHLOROBENZENE
5.0U	1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES
 *-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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[2] From: RKlein 7/26/91 4:11PM (631 bytes: 11 ln)
To: SDeihl, GAdams
Receipt Requested
bcc: RKlein
Subject: Dickson County Landfill

----- Message Contents -----

Myron Stevenson of ESD called today with results from analysis of the water sample collected from Harry Holt's private well 500 ft. from the site. 3.9 ppb of TCE was detected in the sample. This is a J value since it's below the quantitation limit of 5 ppb. Myron said that this sample was O.K.; no air bubbles. He will be sending over a hard copy of the analysis report next week.

Ramona Klein

Window: 1 - 24 Lines: 17 Edit: Help: F1 End: ENTER

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1010 STOP: 00/00/00
STATION ID: SW-01

CASE NO.: 15773

SAS NO.:

D. NO.: AASB

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U C15-1,3-DICHLOROPROPENE
10U METHYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
20U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL ISOPROPYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE
10U METHYL ETYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. S4435 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: C BEINFIELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773	SAS NO.:	D. NO.: AA59	
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
15U	CHLOROMETHANE	15U	1,2-DICHLOROPROPANE
15U	BROMOMETHANE	15U	CIS-1,3-DICHLOROPROPENE
15U	VINYL CHLORIDE	15U	TRICHLOROETHENE (TRICHLOROETHYLENE)
15U	CHLOROETHANE	15U	O,BROMOCHLOROMETHANE
30U	METHYLCHEMINE CHLORIDE	15U	1,1,1-TRICHLOROETHANE
15U	ACETONE	15U	BENZENE
15U	CARBON DISULFIDE	15U	TRANS-1,3-DICHLOROPROPENE
15U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	15U	BROMOFORM
15U	1,1-DICHLOROETHANE	15U	METHYL ISOBUTYL KETONE
15U	1,2-DICHLOROETHENE (TOTAL)	15U	METHYL BUTYL KETONE
15U	CHLOROFORM	15U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
15U	1,2-DICHLOROETHANE	15U	1,1,2,2-TETRACHLOROETHANE
15U	METHYL ETIYL KETONE	15U	TOLUENE
15U	1,1,1-TRICHLOROETHANE	15U	CHLOROBENZENE
15U	CARBON TETRACHLORIDE	15U	ETHYL BENZENE
15U	BROMODICHLOROMETHANE	15U	XYLENE
34		34	TOTAL XYLENES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWATER PROC. ELEM. NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LT CITY: DICKSON ST: TM COLLECTION START: 01/29/91 1110 STOP: 00/00/00
** STATION ID: SW-05

** CASE NO.: 15773 SAS NO.: 0. NO.: AA60
** UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE(TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DICHLOROCHLOROMETHANE
20U MERICHEMINE CHLORIDE	10U 1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL BUTYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE
10U METHYL ETHYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 **	** SAMPLE NO. 54437 **	** SAMPLE TYPE: SOIL **	** PROG. ELEM: NSF **	** COLLECTED BY: G BEINFIELD **
** SOURCE: DICKSON CO LF			CITY: DICKSON	ST: TN
** STATION ID: SD-05			COLLECTION START: 01/29/91	1130 STOP: 00/00/00
** CASE NO.: 15773	SAS NO.:		D. NO.: AA61	
UG/KG		ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
13U CHLOROMETHANE		13U 1,2-DICHLOROPROPANE		
13U BROMOMETHANE		13U 1,1,1-TRICHLOROPROPENE		
13U VINYL CHLORIDE		13U TRICHLOROETHENE (TRICHLOROETHYLENE)		
13U CHLOROETHANE		13U DIBROMOCHLOROMETHANE		
30U METHYLENE CHLORIDE		13U 1,1,2-TRICHLOROETHANE		
13U ACETONE		13U BENZENE		
13U CARBON DISULFIDE		13U TRANS-1,3-DICHLOROPROPENE		
13U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)		13U BROMOFORM		
13U 1,1-DICHLOROETHANE		13U METHYL ISOBUTYL KETONE		
13U 1,2-DICHLOROETHENE (TOTAL)		13U METHYL BUTYL KETONE		
13U CHLOROFORM		13U TETRACHLOROETHENE (TETRACHLOROETHYLENE)		
13U 1,2-DICHLOROETHANE		13U 1,1,1,2-TETRACHLOROETHANE		
13U METHYL ETHYL KETONE		13U TOLUENE		
13U 1,1,1-TRICHLOROETHANE		13U CHLOROBENZENE		
13U CARBON TETRACHLORIDE		13U ETHYL BENZENE		
13U BROMODICHLOROMETHANE		13U STYRENE		
		13U TOTAL XYLENES		
		24 PERCENT MOISTURE		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *N=NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 5443B SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA62

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

1OU CHLOROMETHANE	1OU 1,2-DICHLOROPROPANE
1OU BROMOMETHANE	1OU C15-1,3-DICHLOROPROPENE
1OU VINYL CHLORIDE	1OU TRICHLOROETHENE(TRICHLOROETHYLENE)
1OU CHLOROETHANE	1OU 1,1,2-TRICHLOROETHANE
2OU METHYLENE CHLORIDE	1OU BENZENE
1OU ACETONE	1OU TRANS-1,3-DICHLOROPROPENE
1OU CARBON DISULFIDE	1OU BROMOFORM
1OU 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	1OU METHYL ISOBUTYL KETONE
1OU 1,1-DICHLOROETHANE	1OU METHYL BUTYL KETONE
1OU 1,1,2-DICHLOROETHENE (TOTAL)	1OU TETRACHLOROETHENE(TETRACHLOROETHYLENE)
1OU CHLOROFORM	1OU 1,1,2-TETRACHLOROETHANE
1OU 1,2-DICHLOROETHANE	1OU TOLUENE
1OU METHYL ETHYL KETONE	1OU CHLOROBENZENE
1OU 1,1,1-TRICHLOROETHANE	1OU ETHYL BENZENE
1OU CARBON TETRACHLORIDE	1OU STYRENE
1OU BROMODICHLOROMETHANE	1OU TOTAL XYLENES

REMARKS

REMARKS

NOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

** PROJECT NO. 91-268 SAMPLE NO. S4439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN **
** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00 **

** CASE NO.: 15773

SAS NO.:

D. NO.: AA63

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

14U CHLOROMETHANE	14U 1,2-DICHLOROPROPANE
14U BROMOMETHANE	14U CIS-1,3-DICHLOROPROPENE
14U VINYL CHLORIDE	14U TRICHLOROETHENE (TRICHLOROETHYLENE)
14U CHLOROETHANE	14U 1,2-DIBROMOCHLOROETHANE
300 METHYLENE CHLORIDE	14U 1,1,1-TRICHLOROETHANE
14U ACETONE	14U BENZENE
14U CARBON DISULFIDE	14U TRANS-1,3-DICHLOROPROPENE
14U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	14U BROMOFORM
14U 1,1-DICHLOROETHANE	14U METHYL ISOBUTYL KETONE
14U 1,2-DICHLOROETHENE (TOTAL)	14U METHYL BUTYL KETONE
14U CHLOROFORM	14U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
14U 1,2-DICHLOROETHANE	14U 1,1,2,2-TETRACHLOROETHANE
14U METHYL ETHYL KETONE	14U TOLUENE
14U 1,1,1-TRICHLOROETHANE	14U CHLOROBENZENE
14U CARBON TETRACHLORIDE	14U ETHYL BENZENE
14U BROMODICHLOROMETHANE	14U STYRENE
	14U TOTAL XYLENES
	30 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 9-288 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA64

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

15U CHLOROMETHANE	15U 1,2-DICHLOROPROPANE
15U BROMOMETHANE	15U CIS-1,3-DICHLOROPROPENE
15U VINYL CHLORIDE	15U TRICHLOROETHENE (TRICHLOROETHYLENE)
15U CHLOROETHANE	15U DIBROMOCHLOROMETHANE
40U METHYL CHLORIDE	15U 1,2,2-TRICHLOROETHANE
15U ACETONE	15U BENZENE
15U CARBON DISULFIDE	15U TRANS-1,3-DICHLOROPROPENE
15U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	15U BROMOFORM
15U 1,1-DICHLOROETHANE	15U METHYL ISOBUTYL KETONE
15U 1,2-DICHLOROETHENE (TOTAL)	15U METHYL BUTYL KETONE
15U CHLOROFORM	15U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
15U 1,2-DICHLOROETHANE	15U 1,1,2,2-TETRACHLOROETHANE
15U METHYL ETHYL KETONE	15U TOLUENE
15U 1,1,1-TRICHLOROETHANE	15U CHLOROBENZENE
15U CARBON TETRACHLORIDE	15U ETHYL BENZENE
15U BROMODICHLOROMETHANE	15U STYRENE
	15U TOTAL XYLENES
	34 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. S4441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15273 SAS NO.: D. NO.: AA65

* * * REMARKS * * *

* * -REMARKS*- *

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
 *** CASE NO.: 15773 SAS NO.: D. NO.: AA66
 *** UG/L ANALYTICAL RESULTS

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10U	METHYLENE CHLORIDE
10U	ACETONE
10U	CARBON DISULFIDE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U	1,1-DICHLOROETHANE
10U	1,2-DICHLOROETHANE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
10U	METHYL ETHYL KETONE
10U	1,1,1-TRICHLOROETHANE
10U	CARBON TETRACHLORIDE
10U	BROMODICHLOROMETHANE
10U	1,2-DICHLOROPROPANE
10U	1,1,1,3-TETRACHLOROETHANE (1,1,1,3-TETRACHLOROETHYLENE)
10U	DICHLOROCHLOROMETHANE
10U	1,1,2-TRICHLOROETHANE
10U	BENZENE
10U	TRANS-1,3-DICHLOROPROPENE
10U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
10U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10U	TOLUENE
10U	CHLOROBENZENE
10U	ETHYL BENZENE
10U	STYRENE
10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *AVERAGE VALUE *NA-NOT ANALYZED *N1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN **L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 **M-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
**
** CASE NO.: 15773 SAS NO.: D. NO.: AA67
** UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

14U CHLOROMETHANE	14U 1,2-DICHLOROPROPANE
14U BROMOMETHANE	14U CIS-1,3-DICHLOROPROPENE
14U VINYL CHLORIDE	14U TRICHLOROETHENE (TRICHLOROETHYLENE)
14U CHLOROETHANE	14U DIBROMOCHLOROMETHANE
40U METHYLENE CHLORIDE	14U 1,1,1-TRICHLOROETHANE
14U ACETONE	14U BENZENE
14U CARBON DISULFIDE	14U TRANS-1,3-DICHLOROPROPENE
14U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	14U BROMOFORM
14U 1,1-DICHLOROETHANE	14U METHYL ISOBUTYL KETONE
14U 1,1,2-DICHLOROETHENE (TOTAL)	14U METHYL BUTYL KETONE
14U CHLOROFORM	14U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
14U 1,2-DICHLOROETHANE	14U 1,1,2,2-TETRACHLOROETHANE
14U METHYL ETHYL KETONE	14U TOLUENE
14U 1,1,1-TRICHLOROETHANE	14U CHLOROBENZENE
14U CARBON TETRACHLORIDE	14U ETHYL BENZENE
14U BROMODICHLOROMETHANE	14U STYRENE
	27 TOTAL XYLENES
	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

*** CASE NO.: 15773 SAS NO.: 0. NO.: AA68
UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
10U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRICHLORO-3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL BUTYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE
10U METHYL ETIYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1445 STOP: 00/00/00
STATION ID: SD-06

CASE NO.: 15773

SAS NO.:

DL NO.: AA69

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

13U CHLOROMETHANE
13U BROMOMETHANE
13U VINYL CHLORIDE
13U CHLOROETHANE
40U METHYLENE CHLORIDE
40U ACETONE
13U CARBON DISULFIDE
13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U 1,1-DICHLOROETHANE
13U 1,2-DICHLOROETHENE (TOTAL)
58 CHLOROFORM
13U 1,2-DICHLOROETHANE
13U METHYL ETHYL KETONE
13U 1,1,1-TRICHLOROETHANE
13U CARBON TETRACHLORIDE
13U BROMODICHLORMETHANE

13U 1,2-DICHLOROPROPANE
13U CIS-1,3-DICHLOROPROPENE
13U TRICHLOROETHENE(TRICHLOROETHYLENE)
13U DIBROMODICHLORMETHANE
13U 1,1,2-TRICHLOROETHANE
13U BENZENE
13U TRANS-1,3-DICHLOROPROPENE
13U BROMOFORM
13U ISOBUTYL KETONE
13U METHYL BUTYL KETONE
13U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
13U 1,1,2,2-TETRACHLOROETHANE
13U TOLUENE
13U CHLOROBENZENE
13U ETHYL BENZENE
13U STYRENE
13U TOTAL XYLENES
25 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESO, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	CIS-1,3-DICHLOROPROPENE
12U	VINYL CHLORIDE	12U	TRICHLOROETHENE (TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	1,1,1-TRICHLOROETHANE
40U	METHYLENE CHLORIDE	12U	BENZENE
12U	ACETONE	12U	TRANS-1,3-DICHLOROPROPENE
12U	CARBON DISULFIDE	12U	BROMOFORM
12U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U	METHYL ISOBUTYL KETONE
12U	1,1-DICHLOROETHANE	12U	METHYL BUTYL KETONE
12U	1,2-DICHLOROETHENE (TOTAL)	12U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
12U	CHLOROFORM	12U	1,1,2,2-TETRACHLOROETHANE
12U	1,2-DICHLOROETHANE	12U	TOLUENE
12U	METHYL ETHYL KETONE	12U	CHLOROBENZENE
12U	1,1,1-TRICHLOROETHANE	12U	STYRENE
12U	CARBON TETRACHLORIDE	12U	TOTAL XYLENES
12U	BROMODICHLOROMETHANE	19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/30/91 1125 STOP: 00/00/00
STATION ID: SB-02

CASE NO.: 15773

SAS NO.:

O. NO.: AA71

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

13U CHLOROMETHANE	13U 1,2-DICHLOROPROPANE
13U BROMOMETHANE	13U CIS-1,3-DICHLOROPROPENE
13U VINYL CHLORIDE	13U TRICHLOROETHENE (TRICHLOROETHYLENE)
13U CHLOROETHANE	13U 1,1,1-TRICHLOROETHANE
70U METHYLENE CHLORIDE	13U 1,1,2-TRICHLOROETHANE
13U ACETONE	13U BENZENE
13U CARBON DISULFIDE	13U TRANS-1,3-DICHLOROPROPENE
13U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U BROMOFORM
13U 1,1-DICHLOROETHANE	13U METHYL ISOBUTYL KETONE
13U 1,2-DICHLOROETHENE (TOTAL)	13U METHYL BUTYL KETONE
13U CHLOROFORM	13U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U 1,2-DICHLOROETHANE	13U 1,1,2,2-TETRACHLOROETHANE
13U METHYL ETHYL KETONE	13U TOLUENE
13U 1,1,1-TRICHLOROETHANE	13U CHLOROBENZENE
13U CARBON TETRACHLORIDE	13U ETHYL BENZENE
13U BROMODICHLOROMETHANE	13U STYRENE
	13U TOTAL XYLENES
	21 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE:	PROG ELEM:	COLLECTED BY:	ST. IN
91-266	5444B	SOIL	NSF	G. BEINFIELD	
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN	
STATION ID: SS-03			COLLECTION START: 01/30/91	1230	STOP: 00/00/00
CASE NO.: 15773	SAS NO.:		D. NO.:	AA72	
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS		
12U CHLOROMETHANE	12U 1,2-DICHLOROPROPANE				
12U BROMOMETHANE	12U CIS-1,3-DICHLOROPROPENE				
12U VINYL CHLORIDE	12U TRICHLOROETHENE (TRICHLOROETHYLENE)				
12U CHLOROETHANE	12U 1,1,1-TRICHLOROETHANE				
50U METHYLENE CHLORIDE	12U 1,1,2-TRICHLOROETHANE				
12U ACETONE	12U BENZENE				
12U CARBON DISULFIDE	12U TRANS-1,3-DICHLOROPROPENE				
12U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U BROMOFORM				
12U 1,1-DICHLOROETHANE	12U METHYL ISOBUTYL KETONE				
12U 1,1,2-DICHLOROETHENE (TOTAL)	12U METHYL BUTYL KETONE				
12U CHLOROFORM	12U TETRACHLOROETHENE (TETRACHLOROETHYLENE)				
12U 1,2-DICHLOROETHANE	12U 1,1,2,2-TETRACHLOROETHANE				
12U MÉTIVL ETIYL KETONE	12U TOLUENE				
12U 1,1,1-TRICHLOROETHANE	12U CHLOROBENZENE				
12U CARBON TETRACHLORIDE	12U ETHYL BENZENE				
12U BROMODICHLOROMETHANE	12U STYRENE				
	12U TOTAL XYLENES				
	19 PERCENT MOISTURE				

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION: SW-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00

STATION ID: SB-03		COLLECTION START: 07/30/81 1230 30° F 30° C	
CASE NO.: 15773		SAS NO.:	D. NO.: AA73
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	CIS-1,3-DICHLOROPROPENE
12U	VINYL CHLORIDE	12U	TRICHLOROETHENE (TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	DI-BROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	12U	1,1,2-TRICHLOROETHANE
50U	ACETONE	12U	BENZENE
12U	CARBON DISULFIDE	12U	TRANS-1,3-DICHLOROPROPENE
12U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U	BROMOFORM
12U	1,1-DICHLOROETHANE	12U	METHYL ISOBUTYL KETONE
12U	1,2-DICHLOROETHENE (TOTAL)	12U	METHYL ALCOHOL
12U	CHLOROFORM	12U	TETRA-CHLOROETHENE (TETRACHLOROETHYLENE)
12U	1,2-DICHLOROETHANE	12U	1,1,2,2-TETRACHLOROETHANE
12U	METHYL ETHYL KETONE	12U	TOLUENE
12U	1,1,1-TRICHLOROETHANE	12U	CHLOROBENZENE
12U	CARBON TETRACHLORIDE	12U	ETHYL BENZENE
12U	BROMODICHLOROMETHANE	12U	STYRENE
		12U	TOTAL XYLENES
		20	PERCENT MOISTURE

* * * REMARKS * * *

* * * REMARKS * * *

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV FSD ATHENS GA

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO ST: TN
STATION ID: MW-01 CITY: DICKSON COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773	SAS NO.:	O. NO.: AA74	
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
100	CHLOROMETHANE	100	1,2-DICHLOROPROPANE
100	BROMOMETHANE	100	CIS-1,3-DICHLOROPROPENE
100	VINYL CHLORIDE	100	TRICHLOROETHENE (TRICHLOROETHYLENE)
100	CHLOROETHANE	100	DIBROMODICHLOROMETHANE
100	METHYLENE CHLORIDE	100	1,1,2-TRICHLOROETHANE
100	ACETONE	100	BENZENE
69	CARBON DISULFIDE	100	TRANS-1,3-DICHLOROPROPENE
100	1,1-DICHLOROETHENE (1,1-OICHLOROETHYLENE)	100	BROMOFORM
100	1,1-DICHLOROETHANE	100	METHYL ISOBUTYL KETONE
100	1,2-DICHLOROETHENE (TOTAL)	100	METHYL BUTYL KETONE
100	CHLOROFORM	100	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
100	1,2-DICHLOROETHANE	100	1,1,2,2-TETRACHLOROETHANE
100	METHYL ETHYL KETONE	100	TOLUENE
100	1,1,1-TRICHLOROETHANE	100	UNLABELED BENZENE
100	CARBON TETRACHLORIDE	100	ETHYL BENZENE
100	BROMODICHLOROMETHANE	100	STYRENE
		100	TOTAL XVI FNS.

* * * REMARKS * * *

* * * REMARKS * *

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. S4451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA75

UG/L

ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
10U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
20U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,1,2-TRICHLOROETHENE (TOTAL)	10U METHYL BUTYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE
10U METHYL ETHYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA60

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

1OU CHLOROMETHANE	1OU 1,2-DICHLOROPROPANE
1OU BROMOMETHANE	1OU CIS-1,3-DICHLOROPROPENE
1OU VINYL CHLORIDE	1OU TRICHLOROETHENE (TRICHLOROETHYLENE)
1OU CHLOROETHANE	1OU DIBROMODICHLOROMETHANE
2OU METHYLENE CHLORIDE	1OU 1,1,2-TRICHLOROETHANE
2OU ACETONE	1OU BENZENE
1OU CARBON DISULFIDE	1OU TRANS-1,3-DICHLOROPROPENE
1OU 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	1OU BIS(2-METHYLPROPYL)KETONE
1OU 1,1-DICHLOROETHANE	1OU METHYL ISOBUTYL KETONE
1OU 1,1,1-TRICHLOROETHENE (TOTAL)	1OU METHYL BUTYL KETONE
1OU CHLOROPROPENE	1OU TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1OU 1,1-DICHLOROETHANE	1OU 1,1,2,2-TETRACHLOROETHANE
1OU MÉTHYL ETIYL KETONE	1OU TOLUENE
1OU 1,1,1-TRICHLOROETHANE	1OU CHLOROBENZENE
1OU CARBON TETRACHLORIDE	1OU ETHYL BENZENE
1OU BROMODICHLOROMETHANE	1OU STYRENE
	1OU TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54457 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/28/91 1300 STOP: 00/00/00

** STATION ID: TB-015

** CASE NO.: 15773

SAS NO.:

D. NO.: AA51

UG/KG

ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

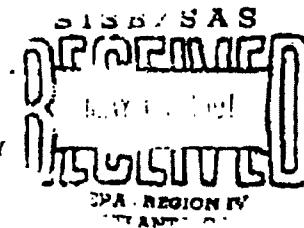
14U CHLOROMETHANE	14U 1,2-DICHLOROPROPANE
14U BROMOMETHANE	14U CIS-1,3-DICHLOROPROPENE
14U VINYL CHLORIDE	14U TRICHLOROETHENE(TRICHLOROETHYLENE)
14U CHLOROETHANE	14U DIBROMOCHLOROMETHANE
30U METHYLENE CHLORIDE	14U 1,1,2-TRICHLOROETHANE
14U ACETONE	14U BENZENE
14U CARBON DISULFIDE	14U TRANS-1,3-DICHLOROPROPENE
14U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	14U BROMOFORM
14U 1,1-DICHLOROETHANE	14U METHYL ISOBUTYL KETONE
14U 1,2-DICHLOROETHENE (TOTAL)	14U METHYL BUTYL KETONE
14U 1,2-DICHLOROETHANE	14U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U 1,2-DICHLOROETHANE	14U 1,1,2,2-TETRACHLOROETHANE
14U METHYL ETHYL KETONE	14U TOLUENE
14U 1,1,1-TRICHLOROETHANE	14U CHLOROBENZENE
14U CARBON TETRACHLORIDE	14U ETHYL BENZENE
14U BROMODICHLOROMETHANE	14U STYRENE
	14U TOTAL XYLENES
	28 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613



*****MEMORANDUM*****

DATE: 04/24/91

SUBJECT: Results of Extractable Organic Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of
the subject project.

As a result of the Quality Assurance Review, certain data qualifiers
may have been placed on the data. Attached is a DATA QUALIFIER
REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number 15773 Project Number 91-266 SAS Number

Site ID. Dickson Co. LF., Dickson, TN.

<u>Affected Samples</u>	<u>Compound or Fraction</u>	<u>Flag Used</u>	<u>Reason</u>
<u>Volatiles</u>			
54441	4-methyl-2-pentanone	J	<quantitation limit
	toluene	J	<quantitation limit
	xylenes	J	<quantitation limit
54433	1,2-dichloroethene	J	<quantitation limit
<u>Extractables</u>			
all water samples	chrysene	J	low recovery blind spike
54432	all extractables	J	excessive holding time
54430, 54440, 54441,			
54446, 54449	all positives	J	<quantitation limit
54445	phenanthrene	J	<quantitation limit
	anthracene	J	<quantitation limit
	fluoranthene	J	<quantitation limit
	pyrene	J	<quantitation limit
	benzo(a)anthracene	J	<quantitation limit
	chrysene	J	<quantitation limit
54434, 54444, 54450,			
54451	all extractables	J	exceeded 40CFR136 holding time
<u>Pesticides</u>			
54456	all pesticides	J	exceeded 40CFR136 holding time
54448	4,4'-DDE	J	excessive holding time; detected
	4,4'-DDD	J	excessive holding time; detected
	4,4'-DDT	J	excessive holding time; detected
	all other pesticides	R	excessive holding time

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

••• PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
••• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
••• STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00

••• CASE NO.: 15773

SAS NO.:

O NO.: AA52

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

430U PHENOL	2200U 3-NITROANILINE
430U 815(2-CHLOROETHYL) ETHER	430U ACENAPHTHENE
430U 2,4-DICHLOROPHENOL	2200U 2,4-DINITROPHENOL
430U 1,2-DICHLOROBENZENE	2200U 4-MITROPHENOL
430U 1,4-DICHLOROBENZENE	430U DIBENZOFURAN
430U 1,2-DICHLOROBENZENE	430U 2,4-DINITROTOLUENE
430U 2-METHYLPHENOL	430U DIETHYL PHTHALATE
430U 2,2'-CHLOROISOPROPYLETHER	430U 4-BROMOPHENYL PHENYL ETHER
(3-AND/OR 4-)METHYLPHENOL	430U FLUORANTHENE
430U N-NITROSODI-N-PROPYLAMINE	2200U 4-NITROANILINE
430U HEXACHLOROETHANE	2200U 2-METHYL-4,6-DINITROPHENOL
430U NITROBENZENE	430U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U ISOPROPYL ETHER	430U 4-BROMOPHENYL PHENYL ETHER
430U 2-MITROPHENOL	430U HEXACHLOROBENZENE (HCB)
430U 2,4-DIMETHYLPHENOL	2200U PENTACHLOROPHENOL
430U BIS(2-CHLOROETHOXY) METHANE	430U PHENANTHRENE
430U 2,4-DICHLOROPHENOL	430U ANTHRACENE
430U 1,2,4-TRICHLOROBENZENE	430U CARBAZOLE
430U NAPHTHALENE	430U DI-N-BUTYL PHTHALATE
430U 4-CHLORDANILINE	430U FLUORANTHENE
430U HEXACHLOROBUTADIENE	430U PYRENE
430U 4-CHLORO-3-METHYLPHENOL	430U BENZYL BUTYL PHTHALATE
430U 2-METHYLPHENOL	430U 3,3'-DICHLOROBENZIDINE
430U HEXA(4-PROPOXY)PENTADIENE (HCCP)	430U BENZO(A)ANTHRACENE
2200U 2,4,5-TRICHLOROPHENOL	430U CHRYSENE
430U 2-CHLORONAPHTHALENE	430U BIS(2-ETHYLHEXYL) PHTHALATE
2200U 2-NITROANILINE	430U DI-N-OCTYL PHTHALATE
430U DIMETHYL PHTHALATE	430U BENZO(B AND/CR K)FLUORANTHENE
430U ACENAPHTHYLENE	430U 4,4'-BIS(A-1-PHENYL)-1,3-BENZODI-PHENYL
430U 2,6-DINITROTOLUENE	430U INDENO(1,2,3-CD) PYRENE
	430U DIBENZO(A,H)ANTHRACENE
	430U BENZO(GH)PERYLENE

24 PERCENT MOISTURE

REMARKS

REMARKS

•••FOOTNOTES•••
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54420 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA53

UG/KG

ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

400U	PHENOL	2100U	3-NITROANILINE
400U	BIS(2-CHLOROETHYL) ETHER	400U	ACENAPHTHENE
400U	2-CHLOROPHENOL	2100U	2,4-DINITROPHENOL
400U	1,3-DICHLOROBENZENE	2100U	4-NITROPHENOL
400U	1,4-DICHLOROBENZENE	400U	DI BENZO(FURAN)
400U	1,2-DICHLOROBENZENE	400U	2,4-DINITROTOLUENE
400U	2-METHYLPHENOL	400U	DIETHYL PHTHALATE
400U	2,2'-CHLOROISOPROPYLETHER	400U	4-BROMOPHENYL PHENYL ETHER
400U	(3-AND/OR 4-METHYLPHENOL	400U	FLUORENE
400U	N-NITROSODI-N-PROPYLANILINE	2100U	4-NITROANILINE
400U	HEXA(2-CHLORO)BUTANE	2100U	2-METHYL-4,6-DINITROPHENOL
400U	NITROBENZENE	400U	N-NITROSODI-PHENYLAMINE/DIPHENYLAMINE
400U	ISOPHORONE	400U	4-BROMOPHENYL PHENYL ETHER
400U	2-NITROPHENOL	400U	HEXACHLOROBENZENE (HCB)
400U	2,4-DIMETHYLPHENOL	2100U	PENTACHLOROPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE	400U	PHENANTHRENE
400U	2,4-DICHLOROPHENOL	400U	ANTHRACENE
400U	1,2,4-TRICHLOROBENZENE	400U	4-VARABANE
400U	NAPHTHALENE	400U	DI-2-BUTYLPHthalate
400U	4-CHLORANILINE	400U	FLUORANTHENE
400U	HEXA(2-CHLORO)ADIENE	400U	PYRENE
400U	4-CHLORO-3-METHYLPHENOL	400U	BENZYL BUTYL PHTHALATE
400U	2-METHYLNAPHTHALENE	400U	3,3'-DICHLOROBENZIDINE
400U	HEXACHLOROCYCLOCADIENE (HCCP)	400U	BENZO(A)ANTHRACENE
400U	2,4,6-TRICHLOROPHENOL	400U	CHRYSENE
2100U	2,4,5-TRICHLOROPHENOL	400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	2-CHLORONAPHTHALENE	400U	DI-N-OCTYLPHthalate
2100U	2-NITROANILINE	400U	BENZO(B,CD)FLUORANTHENE
400U	DIETHYL PHTHALATE	400U	BENZO(A)-PYRENE
400U	ACENAPHTHYLENE	400U	INDENO (1,2,3-CD) PYRENE
400U	2,6-DINITROTOLUENE	400U	DI BENZO(A,H)ANTHRACENE
		400U	BENZO(GH)PERYLENE
		18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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EMENT SYSTEM
MENS. GA.

04/23/91

AS ELEM: NSF COLLECTED BY: G BEINFIELD
DICKSON ST: TN
LECTION START: 01/28/91 1530 STOP: 00/00/00

@PDL NO.: AA53

ANALYTICAL RESULTS

3-NITROANILINE
ACENAPHTHENE
4-DINITROPHENOL
4-NITROPHENOL
DIBENZOFURAN
2,4-DINITROTOLUENE
DIETHYL PHTHALATE
4-CHLOROPHENYL PHENYL ETHER
FLUORENE
4-NITROANILINE
2-METHYL-4,6-DINITROPHENOL
N-NITROSODIMETHYLAMINE/DIETHENYLAMINE
BIS(2-BROMOPHENYL)PHENYL ETHER
HEPTACHLOROBENZENE (HCB)
PENTACHLOROPHENOL
PHENANTHRENE
ANTHRACENE
CARBAZOLE
DI-N-BUTYLPHTHALATE
FLUORANTHENE
PYRENE
BENZYL BUTYL PHTHALATE
BENZO(a)ANTHRACENE
BIS(2-(A)ANTHRACENE
CHRYSENE
BIS(2-ETHYLHEXYL) PHTHALATE
DI-N-OCTYL PHTHALATE
BENZO(A) AND/OR K FLUORANTHENE
BENZO-A-PYRENE
INDENO (1,2,3-CD) PYRENE
DIBENZO(A,H)ANTHRACENE
BENZO(GH)PERYLENE
18 PERCENT MOISTURE

@PDL ENTER LANGUAGE=PCL

MARKS***

TED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
IS KNOWN TO BE GREATER THAN VALUE GIVEN
MIN QUANTITATION LIMIT
RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
** SOURCE: DICKSON CO. LF
** STATION ID: SB-01

** CASE NO.: 15773 SAS NO.: 0. NO.: AAS3
** UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

400U	PHENOL	2100U	3-NITROANILINE
400U	BIS(2-CHLOROETHYL) ETHER	400U	ACENAPHTHENE
400U	2-CHLOROPHENOL	2100U	2,4-DINITROPHENOL
400U	400U	2100U	4-NITROPHENOL
400U	1,3-DICHLOROBENZENE	400U	DIBENZOFLUORENE
400U	1,4-DICHLOROBENZENE	400U	1,4-DINITROTOLUENE
400U	1,2-DICHLOROBENZENE	400U	DIETHYL PHthalate
400U	2,3-DICHLOROPHENOL	400U	4-CHLOROPHENYL PHENYL ETHER
400U	(2-AND/OR 4-)METHYLPHENOL	400U	FLUORENE
400U	N-NITROSODI-N-PROPYLAMINE	2100U	4-NITROANILINE
400U	HEXACHLOROETHANE	2100U	2-METHYL-4,6-DINITROPHENOL
400U	NITROBENZENE	400U	N-NITROSOOIPHENYLAMINE/DIPHENYLAMINE
400U	ISOPHORONE	400U	4-BROMOPHENYL PHENYL ETHER
400U	2-NITROPHENOL	400U	HEXAChLOROBENZENE (HCB)
400U	2,4-DIMETHYLPHENOL	2100U	PENTACHLOROPHENOL
400U	BIS(2-CHLOROETHOXY) METHANE	400U	PHENANTHRENE
400U	2,2'-DICHLOROPHENOL	400U	ANTHRACENE
400U	1,1,2,2-TETRACHLOROBENZENE	400U	CARBAZOLE
400U	NAPHTHALENE	400U	DI-N-BUTYLPHthalate
400U	4-CHLORANILINE	400U	FLUORANTHENE
400U	HEXAChLOROBUTADIENE	400U	PYRENE
400U	4-CHLORO-3-METHYLPHENOL	400U	BENZYL BUTYL PHthalate
400U	2-METHYLNAPHTHALENE	400U	3,3'-DICHLOROBENZIDINE
400U	HEXAChLOROCYCLOPENTADIENE (HCCP)	400U	BENZO(A)ANTHRACENE
400U	2,4,6 TRICHLOROPHENOL	400U	CHRYSENE
2100U	2,4,5-TRICHLOROPHENOL	400U	6-(2-Ethylhexyl) PHthalate
2100U	2-CHLORONAPHTHALENE	400U	DI-2-ethyl PHthalate
2100U	2-NITROANILINE	400U	BENZO(B AND/OR K)FLUORANTHENE
400U	DIETHYL PHthalate	400U	BENZO-A-PYRENE
400U	ACENAPHTHYLENE	400U	INDENO (1,2,3-CD) PYRENE
400U	2,6-DINITROTOLUENE	400U	DIBENZO(A,H)ANTHRACENE
		400U	BENZO(GH)PERYLENE
		18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *N=NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO.: 91-66	SAMPLE NO.: 54430	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: LS-01			COLLECTION START: 01/28/91	STOP: 00/00/00
CASE NO.: 15773		SAS NO.:	D. NO.: AA54	
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS	
450U	PHENOL	2300U	3-NITROANILINE	
450U	BIS(2-CHLOROETHYL) ETHER	450U	ACENAPHTHENONE	
450U	2-NITROPHENOL	2300U	2,4-DINITROPHENOL	
450U	1,3-DICHLOROBENZENE	2300U	2,6-NITROPHENOL	
450U	1,2-DICHLOROBENZENE	450U	DIBENZOFURAN	
450U	2-METHYLPHENOL	450U	2,4-DINITROTOLUENE	
450U	2,2'-CHLORODIISOPROPYLETHER	450U	DIETHYL PHTHALATE	
450U	(3-AND/OR 4-)METHYLPHENOL	450U	4-CHLOROPHENYL PHENYL ETHER	
450U	N-NITROSODI-N-PROPYLAMINE	450U	FLUORENE	
450U	HEXAChLORoETHANE	2300U	4-NITROANILINE	
450U	NITROBENZENE	2300U	2-METHYL-4,6-DINITROPHENOL	
450U	ISOPHORONE	450U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE	
450U	2-NITROPHENOL	450U	4-BROMODIENYL PHENYL ETHER	
450U	2,4-DIMETHYLPHENOL	450U	2,3,4,5-TETRAHEDRONE (HCB)	
450U	BIS(2-CHLOROETHoxy) METHANE	2300U	PENTACHLOROPHENOL	
450U	2,4-DICHLOROPHENOL	450U	PHENANTHRENE	
450U	1,2,4-TRICHLOROBENZENE	450U	ANTHRACENE	
450U	NAPHTHALENE	450U	CARBAZOLE	
450U	4-CHLORoANILINE	81J	DI-N-BUTYLPHthalate	
450U	HEXAChLOROBUTADIENE	450U	FLUORANTHENE	
450U	4-CHLORO-3-METHYLPHENOL	450U	PYRENE	
450U	2-METHYLNAPHTHALENE	450U	BENZYL BUTYL PHTHALATE	
450U	HEXAChLOROBUTADIENE (HCp)	450U	3,3,5-TRICHLOROBENZIDINE	
450U	2,4-TRICHLOROPHENOL	450U	BENZO(A)ANTHRACENE	
450U	2-CHLORONAPHTHALENE	450U	CHRYSENE	
2300U	2-NITROANILINE	450U	BIS(2-ETHYLHEXYL) PHTHALATE	
77J	DIMETHYL PHTHALATE	450U	DI-N-OCTYLPHthalate	
450U	ACENAPHTHYLENE	450U	BENZO(B AND/OR K)FLUORANTHENE	
450U	2,6-DINITROTOLUENE	450U	BENZO-A-PYRENE	
		450U	INDENO (1,2,3-CD) PYRENE	
		450U	DIBENzo(A,H)ANTHRACENE	
		450U	BENZO(G,H)PERYLENE	
		28	PERCENT MOISTURE	

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 81-268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON, LD CITY: DICKSON ST: TN
 STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00

CASE NO.: 1573 SAS NO.: 0. NO.: AA55
 UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

440U PHENOL	2300U 3-NITROANILINE
440U BIS(2-CHLOROETHYL) ETHER	440U ACENAPHTHENE
440U 2-CHLOROPHENOL	2300U 2,4-DINITROPHENOL
440U 1,3-DICHLOROBENZENE	2300U 2,4,6-TRINITROPHENOL
440U 1,2-DICHLOROBENZENE	440U DIBENZOFURAN
440U 2-METHYLPHENOL	440U 2,4-DINITROTOLUENE
440U 2,2'-CHLORODIISOPROPYLETHER	440U DIETHYL PHTHALATE
440U (3-AND/OR 4-)METHYLPHENOL	440U 4-CHLOROPHENYL PHENYL ETHER
440U N-NITROSODI-N-PROPYLAMINE	440U FLUORENE
440U HEXACHLOROETHANE	2300U 4-NITROANILINE
440U NITROBENZENE	2300U 2-METHYL-4,6-DINITROPHENOL
440U ISOPHORONE	440U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U 2-NITROPHENOL	440U 4-BROMOPHENYL PHENYL ETHER
440U 2,3-DIMETHYLPHENOL	440U HEXACHLOROBENZENE (HCB)
440U 2,2-(2-CHLOROETHOXY) METHANE	2300U 2,4,6-TRINITROPHENOL
440U 2,2-DICHLOROPHENOL	440U PHENANTHRENE
440U 1,2,4-TRICHLOROBENZENE	440U ANTHRACENE
440U NAPHTHALENE	440U CARBAZOLE
440U 4-CHLOROANILINE	440U DI-N-BUTYLPHTHALATE
440U HEXACHLOROBUTADIENE	440U FLUORANTHENE
440U 4-CHLORO-3-METHYLPHENOL	440U PYRENE
440U 2-METHYLNAPHTHALENE	440U BENZYL BUTYL PHTHALATE
440U HEXACHLORDCYCLOPENTADIENE (HCCP)	440U 3,3'-DICHLOROBENZIDINE
440U 2,4,6-TRICHLOROPHENOL	440U BENZO(A,H)ANTHRACENE
2300U 2,2-CHLORONAPHTHALENE	440U BENZO(B, AND/OR K)FLUORANTHENE
2300U 2-NITROANILINE	440U BENZ-A-PYRENE
440U DIMETHYL PHTHALATE	440U INDENO (1,2,3-CD) PYRENE
440U ACENAPHTHYLENE	440U DIBENZO(A,H)ANTHRACENE
440U 2,6-DINITROTOLUENE	440U BENZO(GHI)PERYLENE
	26 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA56

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

420UJ	PHENOL	2200UJ	3-NITROANILINE
420UJ	B15(2-CHLOROETHYL) ETHER	420UJ	ACENAPHTHENE
420UJ	2-CHLOROPHENOL	2200UJ	2,4-DINITROPHENOL
420UJ	1,3-DICHLOROBENZENE	2200UJ	4-NITROPHENOL
420UJ	1,4-DICHLOROBENZENE	420UJ	DIBENZOFURAN
420UJ	1,2-DICHLOROBENZENE	420UJ	2,4-DIMIROTOLUENE
420UJ	2-METHYLPHENOL	420UJ	DIETHYL PHTHALATE
420UJ	2,2'-CHLOROISOPROPYLETHER	420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	(3-AMOD/4-METHYLPHENOL	420UJ	FLUORENE
420UJ	N-NITROSODI-N-PROPYLAMINE	2200UJ	4-NITROANILINE
420UJ	HEXAChLORoETHANE	2200UJ	2-METHYL-4,6-DINITROPHENOL
420UJ	NITROBENZENE	420UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
420UJ	ISOPHORONE	420UJ	4-NITRODIPHENYLPHENYL ETHER
420UJ	2-NITROPHENOL	420UJ	PENTACHLOROPHENOL
420UJ	2,4-DINITROPHENOL	420UJ	PHENANTHRENE
420UJ	B15(2-CHLOROETHOXY) METHANE	420UJ	ANTHRACENE
420UJ	2,4-DICHLOROPHENOL	420UJ	CARBAZOLE
420UJ	1,2,4-TRICHLOROBENZENE	420UJ	DI-N-BUTYLPHTHALATE
420UJ	NAPHTHALENE	420UJ	FLUORANTHENE
420UJ	4-CHLORANILINE	420UJ	PYRENE
420UJ	HEXAChLOROBUTADIENE	420UJ	BENZYL BUTYL PHTHALATE
420UJ	4-CHLORO-3-METHYLPHENOL	420UJ	3,5-DICHLOROBENZIDINE
420UJ	2-METHYLNAPHTHALENE	420UJ	BENZO(A)ANTHRACENE
420UJ	HEXAChLOROCYCLOPENTADIENE (HCCP)	420UJ	CHRYSENE
420UJ	2,4,6-TRICHLOROPHENOL	420UJ	B15(2-ETHYLHEXYL) PHTHALATE
2200UJ	2,4,5-TRICHLOROPHENOL	420UJ	DI-N-OCTYLPHTHALATE
420UJ	2-CORONAPHTHALENE	420UJ	BENZO(B AND/OR K)FLUORANTHENE
2200UJ	2-NITROANILINE	420UJ	BENZO-A-PYRENE
420UJ	DIMETHYL PHTHALATE	420UJ	INDENO (1,2,3-CD) PYRENE
420UJ	ACENAPHTHYLENE	420UJ	DIBENZO(A,H)ANTHRACENE
420UJ	2,6-DINITROTOLUENE	420UJ	BENZO(G,H)PERYLENE
		22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 0900 STOP: 00/00/00
*** STATION ID: PW-01

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA57

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OU PHENOL
1OU BIS(2-CHLOROETHYL) ETHER
1OU 2-CHLOROPHENOL
1OU 1,3-DICHLOROBENZENE
1OU 1,4-DICHLOROBENZENE
1OU 1,2-DICHLOROBENZENE
1OU 2-METHYLPHENOL
1OU 2,2'-CHLOROISOPROPYLETHER
1OU 3-NITROCOOH-M-PROPYLAMINE
1OU NITROBENZENE
1OU HEXACHLOROETHANE
1OU NITROBENZENE
1OU ISOPHORONE
1OU 2-NITROPHENOL
1OU 2,4-DIMETHYLPHENOL
1OU BIS(2-CHLOROETHOXY) METHANE
1OU 2,4-DICHLOROPHENOL
1OU 1,2,4-TRICHLOROBENZENE
1OU NAPHTHALENE
1OU 1,4-DICHLOROBUTANE
1OU HEXACHLOROBUTADIENE
1OU 4-CHLORO-3-METHYLPHENOL
1OU 2-METHYLNAPHTHALENE
1OU HEXACHLOROCYCLOPENTADIENE (HCPC)
1OU 2,4,6-TRICHLOROPHENOL
1OU 2,4,5-TRICHLOROPHENOL
1OU 2-CHLORONAPHTHALENE
1OU 2-NITROANILINE
1OU DIMETHYL PHTHALATE
1OU ACENAPHTHYLENE
1OU 2,6-DINITROTOLUENE

5OU 3-NITROANILINE
1OU ACENAPHTHENE
5OU 2,4-DINITROPHENOL
5OU 4-NITROPHENOL
1OU DIBENZOFURAN
1OU 2,4-DINITROTOLUENE
1OU DIMETHYL PHTHALATE
1OU 4-CHLOROPHENYL PHENYL ETHER
1OU FLUORENE
5OU 4-NITROANILINE
5OU 2-METHYL-4,6-DINITROPHENOL
1OU N-NITROSO-DIPHENYLAMINE/DIPHENYLAMINE
1OU 4-BROMOPHENYL PHENYL ETHER
1OU HEXACHLOROBENZENE (HCB)
5OU PENTACHLOROPHENOL
1OU 1,4-DICHLOROBUTANE
1OU ANTHRACENE
1OU CARBAZOLE
1OU DI-N-BUTYLPHTHALATE
1OU FLUORANTHENE
1OU PYRENE
1OU BENZYL BUTYL PHTHALATE
1OU 3,3'-DICHLOROBENZIDINE
1OU BENZO(A)ANTHRACENE
1OU CHRYSENE
1OU BIS(2-CHLOROHEXYL) PHTHALATE
1OU DI-2-HEXYLPHTHALATE
1OU BENZO(B AND/OR K)FLUORANTHENE
1OU BENZO-A-PYRENE
1OU INDENO (1,2,3-CD) PYRENE
1OU BENZO(A,H)ANTHRACENE
1OU BENZO(GHI)PERYLENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 51434 SAMPLE TYPE: SURFACEWA PROG ELEM: MSF COLLECTED BY: C BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1010 STOP: 00/00/00
** STATION ID: SN-01

** CASE NO.: 15773

SAS NO.:

D. NO.: AA58

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10UJ	PHENOL	50UJ	3-NITROANILINE
10UJ	BIS(2-CHLOROETHYL) ETHER	10UJ	ACENAPHTHENE
10UJ	2-CHLOROPHENOL	50UJ	2,4-DINITROPHENOL
10UJ	1,3-DICHLOROBENZENE	50UJ	4-NITROBENZENE
10UJ	1,4-DICHLOROBENZENE	10UJ	4,4-DINITROTOLUENE
10UJ	1,2-DICHLOROBENZENE	10UJ	DIETHYL PHthalate
10UJ	2-METHYLPHENOL	10UJ	4-CHLOROPHENYL PHENYL ETHER
10UJ	2,2'-CHLORoisOPROPYLETHER	10UJ	FLUORENE
10UJ	(3-AND/OR 4-)METHYLPHENOL	50UJ	4-NITROANILINE
10UJ	N-NITROSOdi-N-PROPYLAMINE	50UJ	2-METHYL-4,6-DINITROPHENOL
10UJ	HEXAChLORoETHANE	10UJ	N-NITROSODI-PHENYLAMINE/DIPHENYLAMINE
10UJ	NITROBENZENE	10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	ISOPHORONE	10UJ	HEXAChLOROBENZENE (HCB)
10UJ	2-NITROPHENOL	50UJ	PHENANTHRENE
10UJ	2,4-DIMETHYLPHENOL	10UJ	ANTHRACENE
10UJ	BIS(2-CHLOROETHYL) METHANE	10UJ	CARBAZOLE
10UJ	2,2,4-DICHLOROPHENOL	10UJ	DI-N-BUTYLPHthalate
10UJ	2,2,4-TRICHLOROBENZENE	10UJ	FLUORANTHENE
10UJ	NAPHTHALENE	10UJ	PYRENE
10UJ	4-CHLORoANILINE	10UJ	BENZYL BUTYL PHthalate
10UJ	HEXAChLOROBUTADIENE	10UJ	3,3'-DICHLOROBENZIDINE
10UJ	4-CHLORO-3-METHYLPHENOL	10UJ	CHINo(Z)(A)ANTHRACENE
10UJ	2-METHyLNAPHTHALENE	10UJ	8'S(2-ETHYLHEXYL) PHthalate
10UJ	HEXAChLOROCYCLOPENTADiENE (HCCP)	10UJ	DI-N-OCTYLPHthalate
10UJ	2,4,6-TRICHLOROPHENOL	10UJ	BENzo(B AND/OR K)FLUORANTHENE
50UJ	2,2,4-TRICHLOROPHENOL	10UJ	BENzo-A-PYRENE
50UJ	2,2,4-CHLORONAPHTHALENE	10UJ	INDENO (1,2,3-CD) PYRENE
50UJ	2-NITROANILINE	10UJ	DiBENzo(A,H)ANTHRACENE
10UJ	DIMETHYL PHthalate	10UJ	BENzo(GHI)PERYLENE
10UJ	ACENAPHTHYLENE		
10UJ	2,6-DINITROTOLUENE		

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26.1984)

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA59
 UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

500U	PHENOL	2600U	3-NITROANILINE
500U	B15(2-CHLOROETHYL) ETHER	500U	ACENAPHTHENE
500U	2-CHLOROPHENOL	2600U	2,4-DINITROPHENOL
500U	1,3-DICHLOROBENZENE	2600U	4-NITROPHENOL
500U	1,4-DICHLOROBENZENE	500U	OBENZOFLUORANE
500U	1,2-DICHLOROBENZENE	500U	2,6-DINITROTOLUENE
500U	2-METHYLPHENOL	500U	2-ETHYL PHthalate
500U	2,2'-CHLOROTISOPROPYLETHER	500U	4-CHLOROPHENYL PHENYL ETHER
500U	(3-AND/OR 4-)METHYLPHENOL	500U	FLUORENE
500U	N-NITROSODI-N-PROPYLAMINE	2600U	4-NITROANILINE
500U	HEXAChLORoETHANE	2600U	2-METHYL-4,6-DINITROPHENOL
500U	NITROBENZENE	500U	N-NITROSO(DIPHENYLAMINE)/DIPHENYLAMINE
500U	ISOPHORONE	500U	4-BROMOPHENYL PHENYL ETHER
500U	2-NITROPHENOL	500U	H(CHLORO)BENZENE (HCB)
500U	2,4-DIMETHYLPHENOL	2600U	PENTACHLOROPHENOL
500U	B15(2-(2-METHOXY) METHANE	500U	PHENANTHRENE
500U	2,3-DICHLOROPHENOL	500U	INDENO[1,2,3-CD]PYRENE
500U	2,2,4-TRICHLOROBENZENE	500U	CARBAZOLE
500U	NAPHTHALENE	500U	DI-N-BUTYL PHthalate
500U	4-CHLOROANILINE	500U	FLUORANTHENE
500U	HEAChLOROBUTADIENE	500U	PYRENE
500U	4-CHLORO-3-METHYLPHENOL	500U	BENZYL BUTYL PHthalate
500U	2-METHYLNAPHTHALENE	500U	3,3'-DICHLOROBENZIDINE
500U	HEAChLOROCYCLOPENTADIENE (HCP)	500U	BENZO(A)ANTHRACENE
500U	2,4,8-TRICHLOROPHENOL	500U	CHRYSENE
2500U	2,4,4'-TRICHLOROPHENOL	500U	B15(2-EVYLHEXYL) PHthalate
500U	2-CHLORONAPHTHALENE	500U	2-N-CHVLPHthalate
2600U	2-NITROANILINE	500U	BENZO(B AND/OR K)FLUORANTHENE
500U	DIMETHYL PHthalate	500U	BENZD-A-PYRENE
500U	ACENAPHTHENE	500U	INDENO[1,2,3-CD] PYRENE
500U	2,6-DINITROTOLUENE	500U	DIBENZO(A,H)ANTHRACENE
		500U	BENZO(GH)PERYLENE
		34	PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	PHENOL	50U	3-NITROANILINE
10U	BIS(2-CHLOROETHYL) ETHER	10U	ACENAPHTHEN
10U	2-CHLOROPHENOL	50U	2,4-DINITROPHENOL
10U	1,3-DICHLOROBENZENE	10U	4-NITROPHENOL
10U	1,4-DICHLOROBENZENE	10U	DIBENZOFURAN
10U	1,2-DICHLOROBENZENE	10U	2,4-DINITROTOLUENE
10U	2,3-DICHLOROPHENOL	10U	DIETHYL PHTHALATE
10U	2-(2-CHLOROISOPROPYL)ETHER	10U	4-CHLOROPHENYL PHENYL ETHER
10U	(3-AND/OR 4-METHYLPHENOL	10U	FLUORENE
10U	N-NITROSODI-N-PROPYLAMINE	50U	4-NITROANILINE
10U	HEXAChLORoDETHANE	50U	2-METHYL-4,6-DINITROPHENOL
10U	NITROBENZENE	10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	ISOPICRONE	10U	4-BROMOPHENYL PHENYL ETHER
10U	2-NITROPHENOL	10U	P-ECHACHLOROBENZENE (HCB)
10U	2,4-DIMETHYLPHENOL	50U	PERCHLORIC ACID
10U	BIS(2-CHLOROETHOXY) METHANE	10U	PHENANTHRENE
10U	2,4-DICHLOROPHENOL	10U	ANTHRACENE
10U	2,4,5-TRICHLOROBENZENE	10U	CARBAZOLE
10U	NAPHTHALENE	10U	DI-N-BUTYLPHTHALATE
10U	4-CHLOROANTLINE	10U	FLUORANTHENE
10U	HEXAChLOROBUTADIENE	10U	PYRENE
10U	4-CHLORO-3-METHYLPHENOL	10U	BENZYL BUTYL PHTHALATE
10U	2-METHYLNAPHTHALENE	10U	3,3'-DICHLOROBENZIDINE
10U	HEXAChLOROCYCLOPENTADTENE (HCCP)	10U	BENZO(A)ANTHRACENE
10U	2,4,6-TRICHLOROPHENOL	10U	PHENYL
50U	2,4,5-TRICHLOROPHENOL	10U	B12-(2-ETHYLHEXYL) PHTHALATE
10U	2-CHLORONAPHTHALENE	10U	0,0'-OCTYLPHTHALATE
50U	NAPHTHALENE	10U	BENZO(B AND/OR K)FLUORANTHENE
10U	2-METHYL-PHTHALATE	10U	BENZO-A-PYRENE
10U	ACENAPHTHYLENE	10U	INDENO (1,2,3-CD) PYRENE
10U	2,6-DINITROTOLUENE	10U	DIBENZO(A,H)ANTHRACENE
			BENZO(GHI)PERYLENE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE:	PROG ELEM:	COLLECTED BY:	STATION ID:	CITY:	COLLECTION START:	ST:	STOP:
**	91-268	54497	SOIL	NSF	SD-05	DICKSON	01/29/91	TN	00/00/00
**									
**	CASE NO.:	SAS NO.:	D. NO.:						
**	15773		AAG61						
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS						
430U	PHENOL	2200U	3-NITROANILINE						
430U	BIS(2-CHLOROETHYL) ETHER	430U	ACENAPHTHENE						
430U	2-CHLOROPHENOL	2200U	2,4-DINITROPHENOL						
430U	1,3-DICHLOROBENZENE	2200U	4-METHYLPHENOL						
430U	1,4-DICHLOROBENZENE	430U	DI-BENZOFURAN						
430U	1,2-DICHLOROBENZENE	430U	2,4-DINITROTOLUENE						
430U	2,4-METHYLPHENOL	430U	DIETHYL PHTHALATE						
430U	2,4,7-CHLOROISOPROPYLETHER	430U	4-CHLOROPHENYL PHENYL ETHER						
430U	(3-AND/OR 4-)METHYLPHENOL	430U	FLUORENE						
430U	N-NITROSODI-N-PROPYLAMINE	2200U	4-NITROANILINE						
430U	HEXAChLORoETHANE	2200U	2-METHYL-4,6-DINITROPHENOL						
430U	NITROBENZENE	430U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE						
430U	ISOPHORONE	430U	4-BROMOPHENYL PHENYL ETHER						
430U	2-NITROPHENOL	2200U	HEXAChLORoBENZENE (HCB)						
430U	2,4-DIMETHYLPHENOL	430U	2,4,4'-TRICHLOROPHENOL						
430U	BIS(2-CHLOROETHYL) METHANE	430U	PHENANTHRENE						
430U	2,4,4'-TRICHLOROPHENOL	430U	ANTHRACENE						
430U	1,2,2-TRICHLOROBENZENE	430U	CARBAZOLE						
430U	NAPHTHALENE	430U	O1-N-BUTYLPHTHALATE						
430U	4-CHLORDANILINE	430U	FLUORANTHENE						
430U	HEXAChLOROBUTADIENE	430U	PYRENE						
430U	4-CHLORO-3-METHYLPHENOL	430U	BENZYL BUTYL PHTHALATE						
430U	2-METHYLNAPHTHALENE	430U	3,3'-DICHLOROBENZIDINE						
430U	HEXAChLOROCYCLOPENTADIENE (HCCP)	430U	BENzo(A)ANTHRAcENE						
430U	2,4,6-TRICHLOROPHENOL	430U	FLUORSENE						
2200U	2,4,4'-TRICHLOROPHENOL	430U	BIS(2-ETHYLHEXYL) PHTHALATE						
430U	2-CODONORPHALENE	430U	DI-2-OCTYLPHTHALATE						
2200U	2,4,4'-TRICHLOROANILINE	430U	BENzo(B AND/OR F)FLUORANTHENE						
430U	DIMETHYL PHTHALATE	430U	BENzo-A-PYRENE						
430U	ACENAPHTHYLENE	430U	INDENO (1,2,3-CD) PYRENE						
430U	2,6-DINITROTOLUENE	430U	DI BENzo(A,H)ANTHRAcENE						
		430U	BENzo(GHI)PERYLENE						
		24	PERCENT MOISTURE						

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

••• PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ••• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ••• STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
 ••• CASE NO.: 15773 SAS NO.: D. NO.: AA62
 ••• UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U PHENOL	50U 3-NITROANILINE
10U BIS(2-CHLOROETHYL) ETHER	10U ACENAPHTHENE
10U 2-CHLOROPHENOL	50U 2,4-DINITROPHENOL
10U 1,3-DICHLOROBENZENE	50U 4-NITROPHENOL
10U 1,4-DICHLOROBENZENE	10U DIBENZOFURAN
10U 1,2-DICHLOROBENZENE	10U 2,4-DINITROTOLUENE
10U 2-METHYLPHENOL	10U DIETHYL-PHTHALATE
10U 2-(2-CHLOROISOPOXY)ETHER	10U 2-CYANOPHENYL PHENYL ETHER
10U (3 AND/OR 4)-METHYLPHENOL	10U FLUORENE
10U N-NITROSODI-N-PROPYLAMINE	50U 4-NITROANILINE
10U HEXACHLOROETHANE	50U 2-METHYL-4,6-DINITROPHENOL
10U MITROBENZENE	10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U ISOPHORONE	10U 4-BROMOPHENYL PHENYL ETHER
10U 2-NITROPHENOL	10U HEXACHLOROBENZENE (HCB)
10U 2,4-DIMETHYLPHENOL	50U PENTACHLOROPHENOL
10U BIS(2-CHLOROETHOXY) METHANE	10U PHENANTHRENE
10U 2,4-DICHLOROPHENOL	10U ANTHRACENE
10U 1,2,4-TRICHLOROBENZENE	10U CARBAZOLES
10U NAPHTHALENE	10U DIETHYL-PHTHALATE
10U 4-CYANOPHENOLINE	10U FLUORANTHENE
10U HEXACHLOROBUTADIENE	10U PYRENE
10U 4-CHLORO-3-METHYLPHENOL	10U BENZYL BUTYL PHTHALATE
10U 2-METHYLNAPHTHALENE	10U 3,3'-DICHLOROBENZIDINE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)	10U BENZO(A)ANTHRACENE
10U 2,4,6-TRICHLOROPHENOL	10U CHRYSENE
50U 2,4,5-TRICHLOROPHENOL	10U BIS(2-ETHYLHEXYL) PHTHALATE
10U 2-CHLORONAPHTHALENE	10U DI-NOCYL-PHTHALATE
50U 2,4-DITRAANILINE	10U BENZO(B,FLUOR K)FLUORANTHENE
10U DIMETHYL-PHTHALATE	10U BENZO(P)PYRENE
10U ACENAPHTHYLENE	10U INDENO (1,2,3-CD) PYRENE
10U 2,6-DINITROTOLUENE	10U DIBENZO(A,H)ANTHRACENE
	10U BENZO(GH)PERYLENE

•••FOOTNOTES•••

- A-AVERAGE VALUE •NA-NOT ANALYZED •NI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO. AA63

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

460U	PHENOL	2400U	3-NITROANILINE
460U	2-(2-CHLOROTHYLL) ETHER	460U	ACENAPHTHENE
460U	2-CHLOROPHENOL	2400U	2,4-DINITROPHENOL
460U	1,3-DICHLOROBENZENE	460U	4-NITROPHENOL
460U	1,4-DICHLOROBENZENE	460U	DI BENZOFURAN
460U	1,2-DICHLOROBENZENE	460U	2,4-DINITROTOLUENE
460U	2-METHYLPHENOL	460U	DIETHYL PHTHALATE
460U	2,2'-CHLORODISOPROPYLETHER	460U	4-CHLOROPHENYL PHENYL ETHER
460U	(3-AND/OR 4-)METHYLPHENOL	460U	FLUORENE
460U	N-NITROSO-1-N-METHYLPYRAMINE	2400U	4-NITROANILINE
460U	HEXA(2-CHLOROETHANE	460U	4,6-DINITROPHENOL
460U	N,N-DIETHYLAMINE	460U	4-NITRODIPHENYLAMINE/DIPHENYLAMINE
460U	1-CYCLOCHEMONE	460U	4-BROMOPHENYL PHENYL ETHER
460U	2-NITROPHENOL	460U	HEXA(2-CHLOROBENZENE (HCB)
460U	2,4-DIMETHYLPHENOL	2400U	PENTACHLOROPHENOL
460U	BIS(2-CHLOROETHOXY) METHANE	460U	PHENANTHRENE
460U	2,4-DICHLOROPHENOL	460U	ANTHRACENE
460U	1,2,4-TRICHLOROBENZENE	460U	CARBAZOLE
460U	NAPHTHALENE	460U	DI-N-BUTYL PHTHALATE
460U	4-CHLOROANILINE	460U	1,4-DIURIDYL
460U	HEXA(2-CHLOROBUTADIENE	460U	PYRENE
460U	4-CHLORO-4-METHYLPHENOL	460U	BENZYL BUTYL PHTHALATE
460U	2-METHYL NAPHTHALENE	460U	3,3'-DICHLOOROBENZIDINE
460U	HEXA(2-CHLOROCYCLOPENTADIENE (HCCP)	460U	BENZO(A)ANTHRACENE
460U	2,4,6-TRICHLOROPHENOL	460U	CHRYSENE
2400U	2,4,5-TRICHLOROPHENOL	460U	BIS(2-ETHYLHEXYL) PHTHALATE
460U	2-CHLORONAPHTHALENE	460U	DI-N-OCTYL PHTHALATE
2400U	2-NITROANILINE	460U	BENZO(B AND/OR K)FLUORANTHENE
460U	2-METHYL PHTHALATE	460U	BENZO-A-PYRENE
460U	ACENAPHTHYLENE	460U	INDENO[1,2,3-CD] PYRENE
460U	2,6-DINITROTOLUENE	460U	DIBENZO(A,G)ANTHRACENE
		460U	BENZO(G,H)PERYLENE
		30	PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROJ. ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00

** CASE NO.: 15773

SAS NO.:

O. NO.: AA64

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

490U PHENOL
490U BIS(2-CHLOROETHYL) ETHER
490U 2-CHLOROPHENOL
490U 1, 3-DICHLOROBENZENE
490U 1, 4-DICHLOROBENZENE
490U 1, 2-DICHLOROBENZENE
490U 2-METHYLPHENOL
490U 2, 2'-CHLOROISOPROPYLETHER
490U [3-AND/OR 4-METHYLPHENOL
490U N-NITROSODI-N-PROPYLAMINE
490U HEXACHLOROETHANE
490U NITROBENZENE
490U 1, 3-DIBROMO
490U 2-MITROPHENOL
490U 2, 4-DIMETHYLPHENOL
490U BIS(2-CHLOROETHOXY) METHANE
490U 2, 4-DICHLOROPHENOL
490U 1, 2, 4-TRICHLOROBENZENE
490U NAPHTHALENE
490U 4-CHLOROANILINE
490U HEXACHLOROBUTADIENE
490U 4-CHLOROMETHYLPHENOL
490U 2-METHYLNAPHTHALENE
490U HEXACHLOROCYCLOCHEPTADIENE (HCCP)
490U 2, 4, 6-TRICHLOROPHENOL
2500U 2, 4, 5-TRICHLOROPHENOL
490U 2-CHLORONAPHTHALENE
2500U 2-NITROANILINE
490U DIMETHYL PHTHALATE
490U ACENAPHTHYLENE
490U 2, 6-DINITROTOLUENE

2500U 3-NITROANILINE
490U ACENAPHTHENE
2500U 2, 4-DINITROPHENOL
2500U 4-NITROPHENOL
490U DIBENZOJURAN
490U 2, 4-DINITROTOLUENE
490U DIETHYL PHTHALATE
490U 4-CHLOROPHENYL PHENYL ETHER
FLUORENE
2500U 4-NITROAMILINE
2500U N-NITROSODI-N-PHENYLAMINE/DIPHENYLAMINE
490U 4-BROMOPHENYL PHENYL ETHER
490U HEXACHLOROBENZENE (HCB)
2500U PENTACHLOROPHENOL
490U PHENANTHRENE
490U ANTHRACENE
490U PYRAZOLO
490U DI-N-BUTYLPHTHALATE
60J FLUORANTHENE
69J PYRENE
490U BENZYLBUTYL PHTHALATE
490U 3, 3'-DICHLOROBENZIDINE
490U BENZO(A)ANTHRACENE
490U CHRYSENE
490U BIS(2-ETHYLHEXYL) PHTHALATE
490U BENZO(B)HEXYLPHTHALATE
490U BENZO(B AND/OR K)FLUORANTHENE
490U BENZO-A-PYRENE
490U INDENO (1, 2, 3-C,D) PYRENE
490U BENZO(A, H)ANTHRACENE
490U BENZO(GH)PERYLENE
34 PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: IN COLLECTION START: 01/29/91 1215 STOP: 00/00/00
** STATION ID: SW-02

** CASE NO.: 15773

SAS NO.:

D. NO.: AA65

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

1OU	PHENOL	5OU	3-NITROANILINE
1OU	BIS(2-CHLOROETHYL) ETHER	1OU	ACENAPHTHENE
1OU	2-CHLOROPHENOL	5OU	2,4-DINITROPHENOL
1OU	1,3-DICHLOROBENZENE	5OU	4-NITROPHENOL
1OU	1,4-DICHLOROBENZENE	1OU	DIBENZOFURANE
1OU	1,2-DICHLOROBENZENE	1OU	2,4-DINITROTOLUENE
1J	2-METHYLPHENOL	1OU	DIETHYL PHTHALATE
1OU	2,2'-CHLOROISOPROPYLETHER	1OU	CYCLOPHENYL PHENYL ETHER
1OU	(3-AND/OR 4-)METHYLPHENOL	1OU	FUORENE
1OU	N-NITROSO-1-N-PROPYLAMINE	5OU	4-NITROANILINE
1OU	HEXAChLORoETHANE	5OU	2-METHYL-4,6-DINITROPHENOL
1OU	NITROBENZENE	1OU	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1OU	1,5-CHEMISTRENE	1OU	4-BROMOPHENYL PHENYL ETHER
1OU	2,4-NITROPHENOL	1OU	HEXAChLOROBENZENE (HCB)
1OU	2,4-DIMETHYLPHENOL	5OU	PENTACHLOROPHENOL
1OU	BIS(2-CHLOROETHOXY) METHANE	1OU	PHENANTHRENE
1OU	2,4-DICHLOROPHENOL	1OU	ANTHRACENE
1OU	1,2,4-TRICHLOROBENZENE	1OU	CARBAZOLE
1OU	NAPHTHALENE	1OU	2-ETHYL-PHTHALATE
1OU	4-CHLOROANILINE	1OU	FLUORANTHENE
1OU	HEXAChLOROBUTADIENE	1OU	PYRENE
1OU	4-CHLORD-3-METHYLPHENOL	1OU	BENZYL BUTYL PHTHALATE
1OU	2,3-DIMETHYLPHENALENE	1OU	3,3'-DICHLOROBENZIDINE
1OU	HEXAChLOROCYCLOPENTADIENE (HCCP)	1OU	BENZO(A)ANTHRACENE
1OU	2,4,6-TRICHLOROPHENOL	1OUJ	CHRSENE
5OU	2,4,5-TRICHLOROPHENOL	1OU	BIS(2-ETHYLHEXYL) PHTHALATE
1OU	2-CHLORONAPHTHALENE	1OU	DI-N-OCTYLPHTHALATE
5OU	2-NITROANILINE	1OU	BENZO(B AND/C)FLUORANTHENE
1OU	DIMETHYL PHTHALATE	1OU	INDENO (1,2,3-CD) PYRENE
1OU	ACENAPHTHYLENE	1OU	DIBENZO(A,H)ANTHRACENE
1OU	2,6-DINITROTOLUENE	1OU	BENZO(GHI)PERYLENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE ND. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1330 STOP: 00/00/00
*** STATION ID: SW-03

*** CASE NO.: 15773

SAS NO.:

D. NO.: AA66

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10U PHENOL	50U 3-NITROANILINE
10U BIS(2-CHLOROETHYL) ETHER	10U ACENAPHTHENE
10U 2-CHLOROPHENOL	50U 2,4-DINITROPHENOL
10U 1,3-DICHLOROBENZENE	50U 4-NITROPHENOL
10U 1,4-DICHLOROBENZENE	10U OIBENZOPURAN
10U 1,2-DICHLOROBENZENE	10U 2,4-DINITROTOLUENE
10U 2-METHYLPHENOL	10U DIETHYL PHTHALATE
10U 2,2-BIS(2-CHLOROISOPROPYL)ETHER	10U 4-(CHLOROPHENYL)PHENYL ETHER
10U 1,3 AND 1,4-BIS(2-CHLOROPHENOL)	10U 4-NITROAMILINE
10U N,N-TROSOBIS-2-PROPYLAMINE	10U 2-METHYL-4,6-DINITROPHENOL
10U HEXACHLOROETHANE	10U N-NITRODIPHENYLAMINE/DIPHENYLAMINE
10U NITROBENZENE	10U 4-BROMOPHENYL PHENYL ETHER
10U ISOPHORONE	10U HEXACHLOROBENZENE (HCB)
10U 2-NITROPHENOL	50U PENTACHLOROPHENOL
10U 2,4-DIMETHYLPHENOL	10U PHENANTHRENE
10U BIS(2-CHLOROETHOXY) METHANE	10U ANTHRACENE
10U 2,4-DICHLOROPHENOL	10U CINNABAR
10U 1,2,4-TRICHLOROBENZENE	10U 2,4,4'-TETRAETHYL PHTHALATE
10U NAPHTHALENE	10U FLUORANTHENE
10U 2,4,4'-TRIANTHRYL	10U PYRENE
10U HEXACHLOROBUTADIENE	10U BENZYL BUTYL PHTHALATE
10U 4-CHLORO-3-METHYLPHENOL	10U 3,3'-DICHLOROBENZIDINE
10U 2-METHYLNAPHTHALENE	10U BENZO(A)ANTHRACENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)	10U CHRYSENE
10U 2,4,6-TRICHLOROPHENOL	10U BIS(2-ETHYLHEXYL) PHTHALATE
50U 2,4,5-TRICHLOROPHENOL	10U DI-N-OCTYL PHTHALATE
10U 2-CHLORONAPHTHALENE	10U SERIZOB AND/OR K FLUORANTHENE
50U 2-NITROANILINE	10U BENDENO (1,2,3-CD) PYRENE
10U DIMETHYL PHTHALATE	10U DIBENZO(A,H)ANTHRACENE
10U ACENAPHTHYLENE	10U BENZO(GH)PERYLENE
10U 2,6-DINITROTOLUENE	

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATIVE LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. B4443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1340 STOP: 00/00/00
 *** STATION ID: SD-03

*** CASE NO.: 15773 SAS NO.: D. NO.: AA67

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
440U	PHENOL	2300U	3-NITROANILINE
440U	BIS(2-CHLOROETHYL) ETHER	440U	ACENAPHTHENE
440U	2-CHLOROPHENOL	2300U	2,4-DINITROPHENOL
440U	1,3-DICHLOROBENZENE	2300U	4-NITROPHENOL
440U	1,4-DICHLOROBENZENE	440U	OIBENZOFURAN
440U	1,2-DICHLOROBENZENE	440U	2,4-DINITROTOLUENE
440U	2-METHYLPHENOL	440U	OIETHYL PHthalate
440U	2,2'-CHLOROTISOPROPYLETHER	440U	4-BROMOPHENYL PHENYL ETHER
440U	(3-AND/OR 4-)METHYLPHENOL	2300U	4-NITROAMILINE
440U	N-NITROSODI-N-PROPYLAMINE	2300U	2-METHYL-4,6-DINITROPHENOL
440U	HEXAHALOETHANE	440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	N,N-DIMETHYLANILINE	440U	4-BROMOPHENYL PHENYL ETHER
440U	1,5-PHORONE	440U	HEXAHALOBENZENE (HCB)
440U	2-NITROPHENOL	2300U	PENTACHLOROPHENOL
440U	2,4-DIMETHYLPHENOL	440U	PHENANTHRENE
440U	BIS(2-CHLOROETHOX) METHANE	440U	ANTHRACENE
440U	2,4-DICHLOROPHENOL	440U	CARDIAC ACID
440U	1,2,4-TRICHLOROBENZENE	440U	4-BUTYL PHthalate
440U	NAPHTHALENE	440U	FLUORANTHENE
440U	4-CHLOROANILINE	440U	PYRENE
440U	HEXAHALOBUTADIENE	440U	BENZYL BUTYL PHthalate
440U	4-METHYL-2-METHYLPHENOL	440U	3,3'-DICHLOROBENZIDINE
440U	4-METHYLNAPHTHALENE	440U	BENZO(A)ANTHRACENE
440U	HEXAHALOCYCLOCOPENTADIENE (HCCP)	440U	CHRYSENE
440U	2,4,6-TRICHLOROPHENOL	440U	BIS(2-ETHYLHEXYL) PHthalate
2300U	2,4,5-TRICHLOROPHENOL	440U	DI-N-OCTYLPHthalate
440U	2-CHLORONAPHTHALENE	440U	BENZO(B AND F)FLUORANTHENE
2300U	2-NITROANILINE	440U	INDENO (1,2,3-CD) PYRENE
440U	DIMETHYL PHthalate	440U	DIBENZO(A,H)ANTHRACENE
440U	ACENAPHTHYLENE	440U	BENZO(BH)PERYLENE
440U	2,6-DINITROTOLUENE	27	PERCENT MOISTURE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN **L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/81

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWATER PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON STATION ID: SW-06 COLLECTION START: 01/29/91 1340 STOP: 00/00/00

I0UJ	PHENOL	I0UJ	3-NITROANILINE
I0UJ	BIS(2-CHLOROETHYL) ETHER	I0UJ	ACENAPHTHENE
I0UJ	2-CN DIPHENYL	I0UJ	2,4-DIN TROPHENOL
I0UJ	1,3-DICHLOROBENZENE	I0UJ	4-NITROBENZOL
I0UJ	1,2-DICHLOROBENZENE	I0UJ	DI BENZOFURAN
I0UJ	2-DICHLOROBENZENE	I0UJ	2,4-DINITROTOLUENE
I0UJ	2-METHYLPHENOL	I0UJ	DIETHYL PHthalate
I0UJ	2,2'-CHLOROSOPROPYLETHER	I0UJ	4-CHLOROPHENYL PHENYL ETHER
I0UJ	(3-AND/OR 4)-METHYLPHENOL	I0UJ	FLUORENE
I0UJ	N-NITROSODI-N-PROPYLAMINE	I0UJ	4-NITROANILINE
I0UJ	HEXA CHLOROETHANE	I0UJ	2-METHYL-4-DINITROPHENOL
I0UJ	NITROBENZENE	I0UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
I0UJ	ISOPHORONE	I0UJ	4-BROMOPHENYL PHENYL ETHER
I0UJ	2-NITROPHENOL	I0UJ	HEXA CHLOROBENZENE (HCB)
I0UJ	2,4-DIMETHYL PHENOL	I0UJ	PENTACHLOROPHENOL
I0UJ	BIS(2-CHLOROETHOXY) METHANE	I0UJ	PHENYL PHENYL ETHER
I0UJ	2,4-TICHLOROPHENOL	I0UJ	ANTHRACENE
I0UJ	2,2,4-TRICHLOROBENZENE	I0UJ	CARBAZOLE
I0UJ	MAPHTHALENE	I0UJ	DT-N-BUTYLPHthalate
I0UJ	4-CHLORDANILINE	I0UJ	FLUORANTHENE
I0UJ	HEXA CHLOROBUTADIENE	I0UJ	PYRENE
I0UJ	4-CHLORD-3-METHYLPHENOL	I0UJ	BENZYL BUTYL PHthalate
I0UJ	2-METHYLNAPHTHALENE	I0UJ	3,3'-OICHLOROBENZIDINE
I0UJ	HEXA CHLOROCYCLOPENTADIENE (HCCP)	I0UJ	BENZO(A)ANTHRACENE
I0UJ	2,4,8-TRICHLOROPHENOL	I0UJ	CHRYSENE
I0UJ	2,4,5-TRICHLOROPHENOL	I0UJ	2-(2-NITROPHENYL) PHthalate
I0UJ	2,4-CHEMICAL PHENOL	I0UJ	DI-N-BUTYLPHthalate
I0UJ	2-NITROANILINE	I0UJ	BENZO(B AND/OR K) FLUORANTHENE
I0UJ	DIMETHYL PHthalate	I0UJ	BENZO-A-PYRENE
I0UJ	ACENAPHTHYLENE	I0UJ	INDENO (1,2,3-CD) PYRENE
I0UJ	2,6-DINITROTOLUENE	I0UJ	DI BENZO(A,H) ANTHRACENE
I0UJ		I0UJ	BENZO(GH) PYRENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26, 1984)

REMARKS

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJ. NO.	SAMPLE NO.	SAMPLE TYPE:	COLLECTED BY:	CITY:	ST:	COLLECTION START:	STOP:
91-266	54445	SOIL	G BEINFELD	DICKSON	TN	01/29/91	00/00/00
SOURCE: DICKSON CO. LF							
STATION ID: SD-06							
CASE NO.: 15773	SAS NO.:	D. NO.:	A469				
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS				
440U PHENOL	2300U 3-NITROANILINE						
440U BIS(2-CHLOROETHYL) ETHER	440U ACENAPHTHENE						
440U 2-CHLORDPHENOL	2300U 2,4-DINITROPHENOL						
440U 1,3-DICHLOROBENZENE	2300U 4-NITROPHENOL						
440U 1,4-DICHLOROBENZENE	440U DIBENZOFURAN						
440U 1,2-DICHLOROBENZENE	440U 2,4-DINITROTOLUENE						
440U 2-METHYLPHENOL	440U DIETHYL PHTHALATE						
440U 2,2'-CHLOROTOSOPROPYLETHER	440U 4-CHLOROPHENYL PHENYL ETHER						
(3-AND/OR 4-)METHYLPHENOL	440U 4-NITROPHENOL						
N-NITROSODI-N-PROPYLAMINE	2300U 4-NITROANILINE						
440U HEXACHLOROETHANE	2300U 2-METHYL-4,6-DINITROPHENOL						
440U NITROBENZENE	440U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE						
440U TETRAHEDRONE	440U 4-BROMOPHENYL PHENYL ETHER						
440U 2-NITROPHENOL	440U HEXACHLOROBENZENE (HCB)						
440U 2,4-DIMETHYLPHENOL	2300U PENTACHLOROPHENOL						
BIS(2-CHLOROETHOXY) METHANE	310J PHENANTHRENE						
440U 2,4-DICHLOROPHENOL	51J ANTHRACENE						
440U 1,2,4-TRICHLOROBENZENE	440U CARBAZOLE						
440U NAPHTHALENE	440U 01-N-BUTYLPHTHALATE						
440U 4-CHLOROANILINE	440U 1,4-NAPHTHENE						
440U HEXACHLOROBUTADIENE	270J PYRENE						
440U 2,4,6-TRIMETHYLPHENOL	560 BENZYL BUTYL PHTHALATE						
440U 2-METHYLNAPHTHALENE	440U 3,3'-DICHLOROBENZIDINE						
440U HEXACHLOROCYCLOCOPENTADIENE (HCCP)	190J BENZO(A)ANTHRACENE						
440U 2,4,6-TRICHLOROPHENOL	170J CHRYSENE						
2300U 2-CHLORONAPHTHALENE	440U BIS(2-ETHYLHEXYL) PHTHALATE						
2300U 2-NITROANILINE	440U 01-N-OCTYLPHTHALATE						
440U DIMETHYL PHTHALATE	440U BENZO(A,B,C)PYRAN						
440U ACENAPHTHENE	240U BENZO(A,B,C,D)PYRENE						
440U 2,6-DINITROTOLUENE	440U BENZO(1,2,3-C,D)PYRENE						
	440U BENZO(A,H)ANTHRACENE						
	440U DIBENZO(A,H)PYRENE						
	440U BENZO(G,H)PYRENE						
	25 PERCENT MOISTURE						

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG. ELEM.: NSF COLLECTED BY: G.BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00

 CASE NO.: 15773 SAS NO.: D. NO.: AA70
 UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

400U PHENOL	2100U 3-NITROANILINE
400U BIS(2-CHLOROETHYL) ETHER	400U ACENAPHTHENE
400U 2-CHLOROPHENOL	2100U 2,4-DINITROPHENOL
400U 1,3-DICHLOROBENZENE	2100U 4-NITROPHENOL
400U 1,4-DICHLOROBENZENE	400U DIBENZOFURAN
400U 1,2-DICHLOROBENZENE	400U 4,4'-DINITROTOLUENE
400U 2-METHYLPHENOL	400U 4,4'-BIS(2-PHTHALATE)
400U 2-(2-CHLOROETHOXY)PHE	400U 4-(CHLOROPHENYL)PHENYL ETHER
400U 2-(3-AND/OR 4)-METHYLPHENOL	400U FLUORENE
400U N-NITROSODI-N-PROPYLAMINE	2100U 4-NITROANILINE
400U HEXACHLOROETHANE	2100U 2-METHYL-4,6-DINITROPHENOL
400U NITROBENZENE	400U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U ISOPHORONE	400U 4-BROMOPHENYL PHENYL ETHER
400U 2-NITROPHENOL	400U HEXACHLOROBENZENE (HCB)
400U 2,4-DIMETHYLPHENOL	2100U PENTACHLOROPHENOL
400U BIS(2-CHLOROETHOXY) METHANE	57J PHENANTHRENE
400U 2,4-DICHLOROPHENOL	400U ANTHRACENE
400U 1,2,4,6-TRICHLOROBENZENE	400U CARBAZOLES
400U NAPHTHALENE	400U DI-M-BUTYL PHTHALATE
400U POLY(ORGANIC)	85J FLUORANTHENE
400U HEXACHLOROBUTADIENE	68J PYRENE
400U 4-CHLORO-3-METHYLPHENOL	400U BENZYL BUTYL PHTHALATE
400U 2-METHYLNAPHTHALENE	400U 3,3'-DICHLOROBENZIDINE
400U HEXACHLOROCYCLOPENTADIENE (HCCP)	42J BENZO(A)ANTHRACENE
400U 2,4,6-TRICHLOROPHENOL	400U CHRYSENE
2100U 2,4,5-TRICHLOROPHENOL	400U BIS(2-ETHYLHEXYL) PHTHALATE
400U 2-CHLORONAPHTHALENE	400U DI-N-OCTYL PHTHALATE
2100U 2-NITROANILINE	400U BENZO(B AND/K)FLUORANTHENE
67J DIMETHYL PHTHALATE	400U INDENO(1,2,3-CD) PYRENE
400U ACENAPHTHYLENE	400U BENZO(A,H)ANTHRACENE
400U 2,6-DINITROTOLUENE	400U BENZO(GHI)PERYLENE
	19 PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *X-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *D-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54448	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: SS-03			COLLECTION START: 01/30/91 1230	STOP: 00/00/00
CASE NO.: 15773	SAS NO.:	D. NO.: AA72		
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS	
4000 PHENOL	21000 3-NITROANILINE			
4000 BIS(2-CHLOROETHYL) ETHER	4000 ACENAPHTHENE			
4000 2-CHLOROPHENOL	21000 2,4-DINITROPHENOL			
4000 1,3-DICHLOROBENZENE	21000 4-NITROPHENOL			
4000 1,4-DICHLOROBENZENE	4000 DIBENZOFURAN			
4000 1,2-DICHLOROBENZENE	4000 2,4-DINITROTOLUENE			
4000 2-METHYLPHENOL	4000 DIETHYL PHTHALATE			
4000 2,2'-CHLORODISOPROPYLETHER	4000 4-NITROPHENYL PHENYL ETHER			
(3-AND/OR-4-)METHYLPHENOL	4000 FLUORENE			
4000 N,N-DI(2-PROPYLAMINE	21000 4-NITROANILINE			
4000 HEXACHLOROETHANE	21000 2-METHYL-4,6-DINITROPHENOL			
4000 NITROBENZENE	4000 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE			
4000 ISOPHORONE	4000 4-BROMOPHENYL PHENYL ETHER			
4000 2-NITROPHENOL	4000 HEXACHLOROBENZENE (HCB)			
4000 2,4-DIMETHYLPHENOL	21000 PENTACHLOROPHENOL			
4000 BIS(2-CHLOROETHOXY) METHANE	4000 PHENANTHRENE			
4000 2,4-DICHLOROPHENOL	4000 1,2,4,5-TETRAHEDRAL			
4000 1,2,4-TRICHLOROBENZENE	4000 CARBAZOLE			
4000 NAPHTHENE	4000 DI-N-BUTYL PHTHALATE			
4000 POLYDIBENZO-P-ARYLE	4000 FLUORANTHENE			
4000 HEXAChLOROBUTADIENE	4000 PYRENE			
4000 4-CHLORO-3-METHYLPHENOL	4000 BENZYL BUTYL PHTHALATE			
4000 2-METHYLNAPHTHALENE	4000 3,3'-DICHLOROBENZIDINE			
4000 HEXAChLOROCYCLOPENTADIENE (HCCP)	4000 BENZO(A)ANTHRACENE			
4000 2,4,6-TRICHLOROPHENOL	4000 CHRYSENE			
21000 2,4,5-TRICHLOROPHENOL	4000 BIS(2-ETHYLHEXYL) PHTHALATE			
4000 2-CHLORONAPHTHALENE	4000 DI-N-OCTYL PHTHALATE			
21000 2-NITROANILINE	4000 BENZO(B,F)PYRENE			
4000 DIMETHYL PHTHALATE	4000 INDENO(1,2,3-CD) PYRENE			
4000 ACENAPHTHYLENE	4000 DIBENZO(A,H)ANTHRACENE			
4000 2,6-DINITROTOLUENE	4000 BENZO(GH)PERYLENE			
	19 PERCENT MOISTURE			

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
 *** CASE NO.: 15773 SAS NO.: 0, NO.: AA74
 *** UC/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10UJ PHENOL	50UJ 3-NITROANILINE
10UJ BIS(2-CHLOROETHYL) ETHER	10UJ ACENAPHTHENE
10UJ 2-CHLOROPHENOL	50UJ 2,4-DINITROPHENOL
10UJ 1,3-DICHLOROBENZENE	50UJ 4-NITROPHENOL
10UJ 1,4-DICHLOROBENZENE	10UJ DIBENZOJURAN
10UJ 1,2-DICHLOROBENZENE	10UJ 2,6-DINITROTOLUENE
10UJ 2,4,6-TRICHLOROPHENOL	10UJ 2-(2-THIOPROPYL)PHTHALATE
10UJ (3-AND/OR 4-METHYLPHENOL	10UJ 4-CHLOROPHENYL PHENYL ETHER
10UJ N-NITROSODI-N-PROPYLAMINE	10UJ FLUORENE
10UJ HEXACHLOROETHANE	50UJ 4-NITROANILINE
10UJ NITROBENZENE	10UJ H-NITRODIPHENYLAMINE/DIPHENYLAMINE
10UJ ISOPHORONE	10UJ 2-METHYL-4,6-DINITROPHENOL
10UJ 2-NITROPHENOL	10UJ 4-BROMOPHENYL PHENYL ETHER
10UJ 2,4-DIMETHYLPHENOL	50UJ HEXACHLOROBENZENE (HCB)
10UJ BIS(2-CHLOROETHOXY) METHANE	10UJ PENTACHLOROPHENOL
10UJ 2,4-DICHLOROPHENOL	10UJ PHENANTHRENE
10UJ 1,2,4-TRICHLOROBENZENE	10UJ ANTHRACENE
10UJ NAPHTHALENE	10UJ CARBONOLE
10UJ 4-CHLORANILINE	10UJ O1-N-BUTYLPHTHALATE
10UJ HEXACHLOROBUTADIENE	10UJ FLUORANTHENE
10UJ 4-CHLORO-3-METHYLPHENOL	10UJ PYRENE
10UJ 2-METHYLNAPHTHALENE	10UJ BENZYL BUTYL PHTHALATE
10UJ HEXACHLOROCYCLOPENTADIENE (HCCP)	10UJ 3,3'-DICHLOROBENZIDINE
10UJ 2,4,6-TRICHLOROPHENOL	10UJ BENZO(A)ANTHRACENE
10UJ 2,4,5-TRICHLOROPHENOL	10UJ CHRYSENE
50UJ 2-CHLORONAPHTHALENE	10UJ BIS(2-CHLOROHEXYL)PHTHALATE
10UJ 5-METHYL PHTHALATE	10UJ 4-MOCYLPHthalate
10UJ ACENAPHTHYLENE	10UJ BENZO(B AND/OR K)FLUORANTHENE
10UJ 2,6-DINITROTOLUENE	10UJ BENZO-A-PYRENE

REMARKS
 HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26.1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00

I0UJ	PHENOL	I0UJ	3-NITROANILINE
I0UJ	615(2-CHLOROETHYL) ETHER	I0UJ	ACENAPHTHENE
I0UJ	2-CHLOROPHENOL	I0UJ	2,4-DINITROPHENOL
I0UJ	1,3-DICHLOROBENZENE	I0UJ	4-BENZYLPHENOL
I0UJ	1,4-DICHLOROBENZENE	I0UJ	DIBENZO(A,D)PHENANTHRENE
I0UJ	1,2-DICHLOROBENZENE	I0UJ	2,4-DINITROTOLUENE
I0UJ	2-METHYLPHENOL	I0UJ	DIETHYL PHthalate
I0UJ	2,2'-CHLOROSIOPROPYLETHER	I0UJ	4-CHLOROPHENYL PHENYL ETHER
I0UJ	(3-AND/OR 4)-METHYLPHENOL	I0UJ	FLUORENE
I0UJ	N-NITROSODI-N-PROPYLAMINE	I0UJ	4-NITROANILINE
I0UJ	HEXACHLOROETHANE	I0UJ	2-METHYL-4-B-DINITROPHENOL
I0UJ	NITROBENZENE	I0UJ	M-NITROSODIPHENYLAMINE/DIPHENYLAMINE
I0UJ	ISOPHORONE	I0UJ	4-BROMOPHENYL PHENYL ETHER
I0UJ	2-NITROPHENOL	I0UJ	HEXACHLOROBENZENE (HCB)
I0UJ	2,4-DIMETHYLPHENOL	I0UJ	PENTACHLOROPHENOL
I0UJ	BIS(2-CHLOROETHOXY) METHANE	I0UJ	PHENYL ACETIC ACID
I0UJ	1,2,6-TRICHLOROPHENOL	I0UJ	ANTHRACENE
I0UJ	1,2,4-TRICHLOROBENZENE	I0UJ	CARBAZOLE
I0UJ	NAPHTHALENE	I0UJ	DI-N-BUTYLPHthalate
I0UJ	4-CHLOROANILINE	I0UJ	FLUORANTHENE
I0UJ	HEXAChLOROBUTADIENE	I0UJ	PYRENE
I0UJ	4-CHLORO-3-METHYLPHENOL	I0UJ	BENZYL BUTYL PHthalate
I0UJ	2-METHYLNAPHTHALENE	I0UJ	3,3'-DICHLOOROBENZIDINE
I0UJ	HEXAChLOROCYCLOPENTADIENE (HCCP)	I0UJ	BENZO(A)ANTHRACENE
I0UJ	2,4,6-TRICHLOROPHENOL	I0UJ	CHRYSENE
I0UJ	2,4,5-TRICHLOROPHENOL	I0UJ	1,4-(E,E)-HEXYL(HEXYL) PHthalate
I0UJ	2,4-CHLORONAPHTHALENE	I0UJ	DI-CHLOROPHENYL PHthalate
I0UJ	2-NITROANILINE	I0UJ	BENZO(B AND/OR K)FLUORANTHENE
I0UJ	DIMETHYL PHthalate	I0UJ	BENZO-A-PYREN
I0UJ	ACENAPHTHYLENE	I0UJ	INDENO (1,2,3-CD) PYREN
I0UJ	2,6-DINITROToluENE	I0UJ	DI-BENZO(A,H)ANTHRACENE
I0UJ		I0UJ	BENZO(GH)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

* * * REMARKS * * *

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. S4456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00

100	PHENOL	50J	3-NITROANILINE
100	BIS(2-CHLOROETHYL) ETHER	100	ACENAPHTHENE
100	2-CHLOROPHENOL	50J	2,4-DINITROPHENOL
100	1,3-DICHLOROBENZENE	50J	4-NITROPHENOL
100	1,2-DICHLOROBENZENE	100	DIBENZO[1,4]RADIAL
100	1,2-DICHLOROBENZENE .	100	2,4-DINITROTOLUENE
100	2-METHYLPHENOL	100	2,4,4,4-TETRAVINYLPHTHALATE
100	2,2'-CHLOROISOPROPYLETHER	100	4-CHLOROPHENYL PHENYL ETHER
100	{3-AND/OR 4-METHYLPHENOL	100	FLUORENE
100	N-NITROSODI-N-PROPYLAMINE	50J	4-NITROANILINE
100	HEXAChLORoETHANE	50J	2-METHYL-4,6-DINITROPHENOL
100	NITROBENZENE	100	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100	ISOPHORONE	100	4-BROMOPHENYL PHENYL ETHER
100	2-NITROPHENOL	100	HEXAChLOROBENZENE (HCB)
100	2,4-DIMETHYLPHENOL	100	PENTACHLOROPHENOL
100	BIS(2-CHLOROETHOXY) METHANE	100	PHENANTHRENE
100	2,4-DICHLOROPHENOL	100	PHENYLACENE
100	2,2,4-TRICHLOROBENZENE	100	CARBAZOLE
100	NAPHTHALENE	100	DT-N-BUTYLPHTHALATE
100	4-CHLOROANILINE	100	FLUORANTHENE
100	HEXACHLOROBUTADIENE	100	PYRENE
100	4-CHLORO-3-METHYLPHENOL	100	BENZYL BUTYL PHTHALATE
100	2-METHYLNAPHTHALENE	100	3,3'-DICHLOROBENZIDINE
100	HEXACHLOROCYCLOPENTADIENE (HCCP)	100	BENZO(a)ANTHRACENE
100	2,4,6-TRICHLOROPHENOL	100J	CHRYSENE
100	2,2,4-TRICHLOROPHENOL	100	1,1,1-(4-Phenylhexyl) PHTHALATE
100	2-CHLORONAPHTHALENE	100	DI-2-OCTYLPHTHALATE
100	2-NITROANILINE	100	BENZO(B AND/OR C)FLUORANTHENE
100	DI METHYL PHTHALATE	100	BENZO-A-PYRENE
100	ACENAPHTHYLENE	100	INDENO (1,2,3-CD) PYRENE
100	2,6-DINITROTOLUENE	100	DIBENZO(A,H)ANTHRACENE
		100	BENZO(G,H,I)PERYLENE

FOOTNOTES
A-AVERAGE VALUE NA-NOT ANALYZED NAI-INTERFERENCES J-ESTIMATED VALUE N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-01 COLLECTION START: 01/28/91 15:15 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA52 MD NO: AA52

ANALYTICAL RESULTS UG/KG
3000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA53 MD NO: AA53

ANALYTICAL RESULTS UG/KG
800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAT-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: MSP COLLECTED BY: C BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AAB4 MD NO: AA54

ANALYTICAL RESULTS UG/KG
5000J 3 UNIDENTIFIED COMPOUNDS
200JN HEXADECANOIC ACID

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO.: 1-268 SAMPLE NO.: 54431 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
SITE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 15-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA55 MD NO.: AA55

ANALYTICAL RESULTS UG/KG

800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

••• PROJECT NO. 91-266	SAMPLE NO. S4435	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G BEINFIELD
••• SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
••• STATION ID: SD-01			COLLECTION START: 01/29/91 1030	STOP: 00/00/00
••• CASE NO.: 15773	SAS NO.:		D. NO.: AA59	MD NO: AA69

ANALYTICAL RESULTS UG/KG
6000J 3 UNIDENTIFIED COMPOUND

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54436 SAMPLE TYPE: SURFACEWA PROG ELEM-NFT COLLECTED BY: C BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AA60 MD NO: AA60

ANALYTICAL RESULTS UC/L

4JN DIETHYLMETHYLBENZAMIDE
4JN BENZOTHIAZOLONE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
** CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO: AA61
**

ANALYTICAL RESULTS UG/KG

4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA63 MD NO: AA63

ANALYTICAL RESULTS UG/KG
2000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
*** SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G. REINFIELD
*** STATION ID: SD-02 CITY: DICKSON ST: TN
*** CASE NO.: 15773 SAS NO.: COLLECTION START: 01/29/91 1220 STOP: 00/00/00
*** D. NO.: AA64 MD NO.: AA64

ANALYTICAL RESULTS UG/KG
5000J 4 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *I-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA65

ANALYTICAL RESULTS ug/L

30JN DIMETHYLPROPANEOL
5JN CYCLOHEXANE CARBOXYLIC ACID
6JN DIETHYL METHYL BENZAMIDE
20J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 64443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA67 MD NO.: AA67

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 64445 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA69 MD NO: AA69

ANALYTICAL RESULTS UG/KG

7000J 8 UNIDENTIFIED COMPOUNDS
N PETROLEUM PRODUCT
200JN TRIBROMOPHENOL (NOT 2,4,6-)

FOOTNOTES
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•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATIVE LIMIT
•R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA70 MD NO.: AA70

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-260 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G. REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 35-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA72 MD NO.: AA72

ANALYTICAL RESULTS UG/KG

10000J 10 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 64449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AA73 MD NO.: AA73

ANALYTICAL RESULTS UG/KG

4000J 2 UNIDENTIFIED COMPOUNDS
N PETROLEUM PRODUCT

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA73 ND NO: AA73

ANALYTICAL RESULTS UG/KG

4000J 2 UNIDENTIFIED COMPOUNDS
N PETROLEUM PRODUCT

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO: 91-286 SAMPLE NO: 54450 SAMPLE TYPE: GROUNDNA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: MW-01 COLLECTION START: 01/30/91 IS45 STOP: 00/00/00
*** CASE NO.: 15773 D NO.: AA74 MD NO: AA74

ANALYTICAL RESULTS ug/L

40J 2 UNIDENTIFIED COMPOUNDS
500JN AMINOMEXANOIC ACID
10JN BUTYLIDENEbis(DIMETHYLETHYL)METHYLPHENOL

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWATER PROG ELEM: NSP COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MM-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA76 MD NO: AA75

ANALYTICAL RESULTS UG/L

20JN AMINOHEXANOIC ACID

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

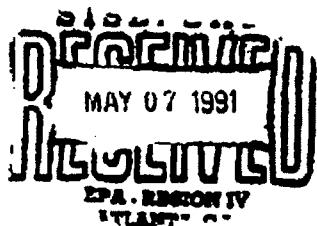
REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-GC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SITE DICKSON CO. LF (FIT)
PROJECT # 91-266 STATE TN MANAGER ROGER FRANKLIN (NUS)
SHIPWEEK 01/28/91

SOILVOA BOOKED	22	DATA RECEIVED	05/06/91	FOR	16	SAMPLES
H2OVOA BOOKED	13	DATA RECEIVED	05/06/91	FOR	10	SAMPLES
SOILEXT BOOKED	21	DATA RECEIVED	05/06/91	FOR	15	SAMPLES
H2OEXT BOOKED	13	DATA RECEIVED	05/06/91	FOR	10	SAMPLES
SOILPEST BOOKED	21	DATA RECEIVED	05/06/91	FOR	15	SAMPLES
H2OPEST BOOKED	13	DATA RECEIVED	05/06/91	FOR	10	SAMPLES
SOILMET BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H2OMET BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILCN BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H2OCN BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H200TH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H200TH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
LAB(CLP/ESD)	CLP					

REMARKS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613

SISB/SAS
RECORDED
MAY 1, 1991
REGULATORY
EPA - REGION IV

*****MEMORANDUM*****

DATE: 05/01/91

SUBJECT: Results of Pesticide/PCB Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

ORGANIC DATA QUALIFIER REPORT

Case Number 15773 Project Number 91-266 SAS Number

Site ID. Dickson Co. LF., Dickson, TN.

<u>Affected Samples</u>	<u>Compound or Fraction</u>	<u>Flag Used</u>	<u>Reason</u>
Volatiles			
54441	4-methyl-2-pentanone	J	<quantitation limit
	toluene	J	<quantitation limit
	xylenes	J	<quantitation limit
54433	1,2-dichloroethene	J	<quantitation limit
Extractables			
all water samples	chrysene	J	low recovery blind spike
54432	all extractables	J	excessive holding time
54430, 54440, 54441,			
54446, 54449	all positives	J	<quantitation limit
54445	phenanthrene	J	<quantitation limit
	anthracene	J	<quantitation limit
	fluoranthene	J	<quantitation limit
	pyrene	J	<quantitation limit
	benzo(a)anthracene	J	<quantitation limit
	chrysene	J	<quantitation limit
54434, 54444, 54450,			
54451	all extractables	J	exceeded 40CFR136 holding time
Pesticides			
54456	all pesticides	J	exceeded 40CFR136 holding time
54448	4,4'-DDE	J	excessive holding time; detected
	4,4'-DDD	J	excessive holding time; detected
	4,4'-DDT	J	excessive holding time; detected
	all other pesticides	R	excessive holding time

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AA52

UG/KG ANALYTICAL RESULTS

2.2U ALPHA-BHC
1.6J BETA-BHC
2.2U DELTA-BHC
2.2U GAMMA-BHC (LINDANE)
2.2U HEPTACHLOR
2.2U ALDRIN
2.2U HEPTACHLOR EPOXIDE
2.2U ENDOSULFAN I (ALPHA)
4.3U DIELDRIN
4.3U 4,4'-DDE (P,P'-DDE)
4.3U ENDRIN
4.3U ENDOSULFAN II (BETA)
4.3U 4,4'-DDD (P,P'-DDD)
4.3U ENDOSULFAN SULFATE
4.3U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

22U METHOXYCHLOR
4.3U ENDRIN KETONE
4.3U ENDRIN ALDEHYDE
— CHLORDANE (TECH. MIXTURE) /1
2.2U GAMMA-CHLORDANE /2
2.2U ALPHA-CHLORDANE /2
22OU TOKAPHENE
43U PCB-1016 (AROCLOL 1018)
43U PCB-1221 (AROCLOL 1221)
87U PCB-1232 (AROCLOL 1232)
43U PCB-1242 (AROCLOL 1242)
43U PCB-1248 (AROCLOL 1248)
43U PCB-1254 (AROCLOL 1254)
43U PCB-1260 (AROCLOL 1260)
24 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N=INTERFERENCES *J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/81

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54429 SAMPLE TYPE: SOIL
LOCATION: DICKSON, TN, LF PROGRAM: MNP COLLECTED BY: BEINFIELD
STATION ID: SB-01 CITY: DICKSON ST: TN
CASE NUMBER: 1573 SAS NUMBER: COLLECTION START: 01/28/91 1530 STOP: 00/00/00
D. NUMBER: AA53

UG/KG ANALYTICAL RESULTS

2. OU ALPHA-BHC
2. OU BETA-BHC
2. OU BETA-BHC
2. OU GAMMA-BHC
2. OU HEPTACHLOR (LINDANE)
2. OU ALDRIN
2. OU HEPTACHLOR EPOXIDE
2. OU ENDOSULFAN I (ALPHA)
4. OU DIELDRIN
4. OU 4,4'-DDE (P,P'-DDE)
4. OU ENTHALIN
4. OU ENTHALIN II (BETA)
4. OU 4,4'-DDD (P,P'-DDD)
4. OU ENDOSULFAN SULFATE
4. OU 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

20U METHYCHLOR
 4.U ENDRIN KETONE
 4.U ENDRIN ALDEHYDE
 2.U CHLORDANE (TECH. MIXTURE) /1
 2.U GAMMA-CHLORDANE /2
 2.U ALPHA-CHLORDANE /2
 200U TOXAPHENE
 40U PCB-1016 (AROCLOR 1016)
 40U PCB-1221 (AROCLOR 1221)
 80U PCB-1242 (AROCLOR 1242)
 40U PCB-1243 (AROCLOR 1243)
 40U PCB-1248 (AROCLOR 1248)
 40U PCB-1254 (AROCLOR 1254)
 40U PCB-1260 (AROCLOR 1260)
 1B PERCENT MOISTURE

* * * REMARKS * * *

* * * REMARKS * * *

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 81-266 SAMPLE NO. B4430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: NICKON CO. LF C. JACKSON ST: 1N
*** STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AA54

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC	24U	METHOXVCHLOR
2.4U	BETA-BHC	4.6U	ENDRIN KETONE
2.4U	DELTA-BHC	4.6U	ENDRIN ALDEHYDE
2.4U	GLOBAL-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
2.4U	HEPTACHLOR	5.4	GLOBAL-CHLORDANE /2
2.4U	ALDRIN	2.0J	ALPHA-CHLORDANE /2
2.4U	HEPTACHLOR EPOXIDE	240U	TOXAPHENE
2.4U	ENDOSULFAN I (ALPHA)	46U	PCB-1016 (AROCLOL 1016)
2.4U	DIELDRIN	48U	PCB-1221 (AROCLOL 1221)
2.4J	4,4'-DDD (P,P'-DDD)	93U	PCB-1232 (AROCLOL 1232)
4.6U	ENDRIN	46U	PCB-1242 (AROCLOL 1242)
4.6U	ENDOSULFAN II (BETA)	48U	PCB-1248 (AROCLOL 1248)
14	4,4'-DDT (P,P'-DDT)	46U	PCB-1254 (AROCLOL 1254)
4.6U	ENDOSULFAN SULFATE	46U	PCB-1260 (AROCLOL 1260)
4.6U	4,4'-DDT (P,P'-DDT)	28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

••• PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ••• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ••• STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
 ••• CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AASS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC	22U	METHOXYCHLOR
2.2U	BETA-BHC	4.4U	ENDRIN KETONE
2.2U	DELTA-BHC	4.4U	ENDRIN ALDEHYDE
2.2U	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
2.2U	HEPTACHLOR	0.30J	GAMMA-CHLORDANE /2
2.2U	ALDRIN	2.2U	ALPHA-CHLORDANE /2
2.2U	HEPTACHLOR EPOXIDE	22DU	TOXAPHENE
2.2U	ENDOSULFAN I (ALPHA)	44U	PCB-1016 (AROCOLOR 1016)
4.4U	ALDRIN	44U	PCB-1221 (AROCOLOR 1221)
4.4U	4,4'-DDE (P,P'-DDE)	88U	PCB-1232 (AROCOLOR 1232)
4.4U	ENDRIN	44U	PCB-1242 (AROCOLOR 1242)
4.4U	ENDOSULFAN II (BETA)	44U	PCB-1248 (AROCOLOR 1248)
4.4U	4,4'-DDD (P,P'-DDD)	44U	PCB-1254 (AROCOLOR 1254)
4.4U	ENDOSULFAN SULFATE	44U	PCB-1260 (AROCOLOR 1260)
4.4U	4,4'-DDT (P,P'-DDT)	26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L-LIMIT OF VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *A-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATIVE LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54432 SAMPLE TYPE: SOIL
SAMPLE LOCATION: DICKSON, TN, LF
COLLECTED BY: G. BEINFIELD
STATION ID: LS-03 CITY: DICKSON
COLLECTION START: 01/28/91 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER:
D. NUMBER: AAB6

- 2. 1U ALPHA-BHC
- 2. 1U BETA-BHC
- 2. 1U DELTA-BHC
- 2. 1U GAMMA-BHC (LINDANE)
- 2. 1U HEPTACHLOR
- 2. 1U ALDRIN
- 2. 1U HEPTACHLOR EPOXIDE
- 2. 1U ENDOSULFAN I (ALPHA)
- 4. 1U DIELDREN
- 4. 1U 4,4'-DDO (P,P'-DDO)
- 4. 1U ENDROBOL
- 4. 1U ENDOSULFAN II (BETA)
- 4. 1U 4,4'-DDD (P,P'-DDD)
- 4. 1U ENDOSULFAN SULFATE
- 4. 1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

21U	METHOXCHLOR
4-1U	ENDRIN KETONE
4-1U	ENDRIN ALDEHYDE
	CHLORDANE (TECH. MIXTURE) /1
2-1U	GAMMA-CHLORDANE /2
2-1U	ALPHA-CHLORDANE /2
21OU	TOXAPHENE
41U	PCB-1016 (AROCLOL 1016)
41U	PCB-1221 (AROCLOL 1221)
41U	PCB-1232 (AROCLOL 1232)
41U	PCB-1242 (AROCLOL 1242)
41U	PCB-1248 (AROCLOL 1248)
41U	PCB-1254 (AROCLOL 1254)
41U	PCB-1260 (AROCLOL 1260)
22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: S4433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
COLLECTOR: J. D. BEINFIELD ST: IN
STATION ID: 0001 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: DL NUMBER: AA57

O	050U	ALPHA-BHC
O	050U	BETA-BHC
O	050U	DI-CHLORO-MIC
O	050U	Gamma-HEXACHLOR
O	050U	HEPTACHLOR
O	050U	ALDRIN
O	050U	HEPTACHLOR EPOXIDE
O	050U	ENDOSULFAN I (ALPHA)
O	050U	DIELDRIN
O	050U	4,4'-DDT (P,P'-DDT)
O	050U	ENDOSULFAN II (BETA)
O	050U	4,4'-DDD (P,P'-DDD)
O	050U	ENDOSULFAN SULFATE
O	050U	4,4'-DDT (P,P'-DDT)

.....
UG/L ANALYTICAL RESULTS

0.50U METHOXYPHENYL
 0.10U ENDRIN KETONE
 0.10U ENDRIN ALDEHYDE
 0.05OU CHLORDANE (TECH. MIXTURE) / 1
 0.05OU GAMMA-CHLORDANE / 2
 0.05OU BETA-CHLORDANE / 2
 5.0U LOKAPHENENE
 1.0U PCB-1016 (AROCLOR 1016)
 1.0U PCB-1221 (AROCLOR 1221)
 2.0U PCB-1232 (AROCLOR 1232)
 1.0U PCB-1242 (AROCLOR 1242)
 1.0U PCB-1248 (AROCLOR 1248)
 1.0U PCB-1254 (AROCLOR 1254)
 1.0U PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
C-CONFIRMED BY GC/MS 1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54434 SAMPLE TYPE: SURFACEW^a PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 GORDON-JACKSON CO. LP CITY: ST. LOUIS ST: TN
 STATION ID: S001 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
 CASE NUMBER: 15773 SAS NUMBER: 0 NUMBER: AA5B

O	050U	ALPHA-BHC
O	050U	BETA-BHC
O	050U	DELTA-BHC
O	050U	GAMMA-BHC (LINDANE)
O	050U	HEPTACHLOR
O	050U	ALDRIN
O	050U	HEPTACHLOR EPOXIDE
O	050U	ENDOSULFAN I (ALPHA)
O	050U	DIELDRIN
O	050U	4,4'-DDT (P,P'-DDT)
O	050U	ENDOSULFAN II (BETA)
O	050U	4,4'-DDD (P,P'-DDD)
O	050U	ENDOSULFAN SULFATE
O	050U	4,4'-DDT (P,P'-DDT)

* * * * * ANALYTICAL RESULTS

0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
0.050U	CHLORDANE (TECH. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	LINPHENIC CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLOR 1016)
1.0U	PCB-1221 (AROCLOR 1221)
2.0U	PCB-1232 (AROCLOR 1232)
1.0U	PCB-1242 (AROCLOR 1242)
1.0U	PCB-1248 (AROCLOR 1248)
1.0U	PCB-1254 (AROCLOR 1254)
1.0U	PCB-1260 (AROCLOR 1260)

TRADEMARKS

ANSWER SECTION

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 64435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AAS9

*** UG/KG ANALYTICAL RESULTS

2.5U ALPHA-BHC
2.5U BETA-BHC
2.5U DELTA-BHC
2.5U GAMMA-BHC (LINDANE)
2.5U HEPTACHLOR
2.5U ALDRIN
2.5U HEPTACHLOR EPOXIDE
2.5U ENDOSULFAN I (ALPHA)
4.9U DIELDRIN
4.9U 2,4-DDE (P,P'-ODE)
4.9U 4,4'-DDT
4.9U ENDOSULFAN II (BETA)
4.9U 4,4'-DDD (P,P'-DDD)
4.9U ENDOSULFAN SULFATE
4.9U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

25U METHOXYCHLOR
4.9U ENDRIN KETONE
4.9U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
2.5U GAMMA-CHLORDANE /2
2.5U ALPHA-CHLORDANE /2
250U TOXAPHENE
49U PCB-1016 (AROCLOL 1016)
49U PCB-1221 (AROCLOL 1221)
99U PCB-1232 (AROCLOL 1232)
49U PCB-1242 (AROCLOL 1242)
49U PCB-1248 (AROCLOL 1248)
49U PCB-1254 (AROCLOL 1254)
49U PCB-1260 (AROCLOL 1260)
34 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT * * * * * EPA-REGION IV ESC, ATHENS, GA.
* * * * * PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: C BEINFIELD
* * * * * SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
* * * * * STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
* * * * * CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AAO

O.05OU	ALPHA-BHC	O.50U	METHOXYCHLOR
O.05OU	BETA-BHC	O.10U	ENDRIN KETONE
O.05OU	DELTA-BHC	O.10U	ENDRIN ALDEHYDE
O.05OU	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
O.05OU	HEPTACHLOR	O.05OU	GAMMA-CHLORDANE /2
O.05OU	ALDRIM	O.05OU	ALPHA-CHLORDANE /2
O.05OU	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
O.05OU	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
O.10U	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
O.10U	4,4'-DDD (P,P'-DDOE)	2.0U	PCB-1232 (AROCLOL 1232)
O.10U	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
O.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1250 (AROCLOL 1250)
O.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
O.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCLOL 1260)
O.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

A-AVERAGE VALUE *HA-NOT ANALYZED *HAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-288 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA61

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC	22U	METHOXVCHLOR
2.2U	BETA-BHC	4.3U	ENDRIN KETONE
2.2U	DELTA-BHC	4.3U	ENDRIN ALDEHYDE
2.2U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
2.2U	HEPTACHLOR	2.2U	GAMMA-CHLORDANE /2
2.2U	ALDRIN	2.2U	ALPHA-CHLORDANE /2
2.2U	HEPTACHLOR EPOXIDE	220U	TOXAPENE
2.2U	ENDOSULFAN I (ALPHA)	43U	PCB-1016 (AROCLOL 1016)
4.3U	ENDOSULFAN II (BETA)	43U	PCB-1221 (AROCLOL 1221)
4.3U	4,4'-DDE (P,P'-DDE)	88U	PCB-1232 (AROCLOL 1232)
4.3U	ENDRIN	43U	PCB-1242 (AROCLOL 1242)
4.3U	ENDOSULFAN II (BETA)	43U	PCB-1248 (AROCLOL 1248)
4.3U	4,4'-DDD (P,P'-DDD)	43U	PCB-1254 (AROCLOL 1254)
4.3U	ENDOSULFAN SULFADE	43U	PCB-1260 (AROCLOL 1260)
5.0U	4,4'-DDT (P,P'-DDT)	24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

** PROJECT NO. 91-200 ** SAMPLE NO. 64438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G REINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA62

***** ANALYTICAL RESULTS *****

UG/L		UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXVCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DETA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	OMMONAIC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	ENDOSULFAN SULFATE		
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. S4439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD **
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN **
** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00 **
** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA63 **

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC	24U	METHOXVCHLOR
2.4U	BETA-BHC	4.7U	ENDRIN KETONE
2.4U	DELTA-BHC	4.7U	ENDRIN ALDEHYDE
2.4U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.4U	HEPTACHLOR	2.4U	GAMMA-CHLORDANE /2
2.4U	ALDRIN	2.4U	ALPHA-CHLORDANE /2
2.4U	HEPTACHLOR EPOXIDE	24U	TOXAPHENE
2.4U	ENDOSULFAN I (ALPHA)	47U	PCB-1016 (AROCOLOR 1016)
4.7U	LINDANE	47U	PCB-1221 (AROCOLOR 1221)
4.7U	4,4'-DDT (P,P'-DDT)	95U	PCB-1232 (AROCOLOR 1232)
4.7U	ENDRIN	47U	PCB-1242 (AROCOLOR 1242)
4.7U	ENDOSULFAN II (BETA)	47U	PCB-1248 (AROCOLOR 1248)
4.7U	4,4'-DDD (P,P'-DDD)	47U	PCB-1254 (AROCOLOR 1254)
4.7U	ENDOSULFAN SULFATE	47U	PCB-1260 (AROCOLOR 1260)
4.7U	4,4'-DDT (P,P'-DDT)	30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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**R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN **L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 81-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA64

UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

2.5U ALPHA-BHC	25U METHOXYCHLOR
2.5U BETA-BHC	4.5U ENDRIN KETONE
2.5U DELTA-BHC	4.5U ENDRIM ALDEHYDE
0.42U GAMMA-BHC (LINDANE)	4.5U CHLORDANE (TECH. MIXTURE) /1
2.5U HEPTACHLOR	-- 1.0J GAMMA-CHLORDANE /2
2.5U ALDRIN	0.25J ALPHA-CHLORDANE /2
2.5U HEPTACHLOR EPOXIDE	250U TOXAPENE
2.5U ENDOSULFAN I (ALPHA)	49U PCB-1016 (AROCOLOR 1016)
4.9U DIELDRIN	49U PCB-1221 (AROCOLOR 1221)
4.9U P,p'-DDDE (P,P'-DDD)	100U PCB-1232 (AROCOLOR 1232)
4.9U ENDRIN	49U PCB-1242 (AROCOLOR 1242)
4.9U ENDOSULFAN II (BETA)	49U PCB-1248 (AROCOLOR 1248)
4.9U 4,4'-DDD (P,P'-DDD)	49U PCB-1264 (AROCOLOR 1264)
4.9U ENDOSULFAN SULFATE	49U PCB-1260 (AROCOLOR 1260)
4.9U 4,4'-DDT (P,P'-DDT)	34 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO: 01-284 SAMPLE NO: 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: C BEINFIELD
*** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
*** STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AAGS

***** ANALYTICAL RESULTS

***** ANALYTICAL RESULTS

UG/L
0.050U ALPHA-BHC
0.050U BETA-BHC
0.050U DELTA-BHC
0.050U GAMMA-BHC (LINDANE)
0.050U HEPTACHLOR
0.050U ALDRIN
0.050U HEPTACHLOR EPOXIDE
0.050U ENDOSULFAN I (ALPHA)
0.10U DIELDRIN
0.10U 4,4'-DDE (P,P'-DDE)
0.10U ENDRIN
0.10U ENDOSULFAN II (BETA)
0.10U 4,4'-DDT (P,P'-DDT)
0.10U ENDOSULFAN SULFATE
0.10U 4,4'-DDT (P,P'-DDT)

UG/L
0.50U METHOXYCHLOR
0.10U ENDRIN KETONE
0.10U ENDRIN ALDEHYDE
— CHLORDANE (TECH. MIXTURE) /1
0.050U GAMMA-CHLORDANE /2
0.050U ALPHA-CHLORDANE /2
5.0U TOXAPHENZ
1.0U PCB-1016 (AROCOLOR 1016)
1.0U PCB-1221 (AROCOLOR 1221)
2.0U PCB-1232 (AROCOLOR 1232)
1.0U PCB-1242 (AROCOLOR 1242)
1.0U PCB-1248 (AROCOLOR 1248)
1.0U PCB-1254 (AROCOLOR 1254)
1.0U PCB-1260 (AROCOLOR 1260)

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 01-266 SAMPLE NO: 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AA66

***** ANALYTICAL RESULTS *****

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPoxide	5.0U	TOXAPENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCLOL 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCLOL 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *D-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 =C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G. BEINFELD
SOURCE: DICKSON CO., LP CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA67

UG/KG ANALYTICAL RESULTS

2.3U ALPHA-BHC
2.3U BETA-BHC
2.3U DELTA-BHC
2.3U GAMMA-BHC (LINDANE)
2.3U HEPTACHLOR
2.3U ALDRIN
2.3U HEPTACHLOR EPOXIDE
2.3U ENDOSULFAN I (ALPHA)
4.4U DIELDRIN
4.4U 4,4'-DDE (P,P'-DDE)
4.4U ENDURIN
4.4U ENDOSULFAN II (BETA)
4.4U 4,4'-DDD (P,P'-DDD)
4.4U ENDOSULFAN SULFATE
4.4U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

23U METHOXYCHLOR
4.4U ENDURIN KETONE
4.4U ENDURIN ALDEHYDE
CHLORDANE (TECH. MIXTURE) /1
2.3U GAMMA-CHLORDANE /2
2.3U ALPHA-CHLORDANE /2
230U TOXAPHENE
44U PCB-1016 (AROCOLOR 1016)
44U PCB-1221 (AROCOLOR 1221)
90U PCB-1232 (AROCOLOR 1232)
44U PCB-1242 (AROCOLOR 1242)
44U PCB-1246 (AROCOLOR 1246)
44U PCB-1254 (AROCOLOR 1254)
44U PCB-1260 (AROCOLOR 1260)
27 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
** CASE NUMBER: 15773 D. NUMBER: A468

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

0.050U ALPHA-BHC	0.50U METHOXYCHLOR
0.050U BETA-BHC	0.10U ENDRIN KETONE
0.050U DELTA-BHC	0.10U ENDRIN ALDEHYDE
0.050U GAMMA-BHC (LINDANE)	-- CHLORDANE (TECH MIXTURE) /1
0.050U HEPTACHLOR	0.050U GAMMA-CHLORDANE /2
0.050U ALDRIN	0.050U ALPHA-CHLORDANE /2
0.050U HEPTACHLOR EPOXIDE	5.0U TOXAPHENE
0.050U ENDOSULFAN I (ALPHA)	1.0U PCB-1016 (AROCOLOR 1016)
0.10U DIELDRIN	1.0U PCB-1221 (AROCOLOR 1221)
0.10U 4,4'-DDE (P,P'-DDE)	2.0U PCB-1232 (AROCOLOR 1232)
0.10U ENDOSULFAN II (BETA)	1.0U PCB-1248 (AROCOLOR 1248)
0.10U ENDOSULFAN III (BETA)	1.0U PCB-1254 (AROCOLOR 1254)
0.10U 4,4'-DDD (P,P'-DDD)	1.0U PCB-1260 (AROCOLOR 1260)
0.10U ENDOSULFAN SULFATE	
0.10U 4,4'-DDT (P,P'-DDT)	

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA69

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC	22U	METHOXYCHLOR
2.2U	BETA-BHC	4.3U	ENDRIN KETONE
2.2U	DELTA-BHC	4.3U	ENDRIN ALDEHYDE
2.2U	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
2.2U	HEPTACHLOR	3.1	GAMMA-CHLORDANE /2
0.37J	ALDRIN	2.2U	ALPHA-CHLORDANE /2
2.2U	HEPTACHLOR EPXIDE	220U	TOXAPHENE
2.2U	ENDOSULFAN I (ALPHA)	43U	PCB-1016 (AROCOLOR 1016)
4.3U	DIELDRIN	43U	PCB-1221 (AROCOLOR 1221)
4.3U	4,4'-DDE (P,P'-DDE)	87U	PCB-1232 (AROCOLOR 1232)
4.3U	ENDRIN	40U	PCB-1242 (AROCOLOR 1242)
4.3U	ENDOSULFAN II (BETA)	43U	PCB-1246 (AROCOLOR 1246)
4.3U	4,4'-DDD (P,P'-DDD)	77U	PCB-1254 (AROCOLOR 1254)
12U	ENDOSULFAN SULFATE	74U	PCB-1260 (AROCOLOR 1260)
4.3U	4,4'-DDT (P,P'-DDT)	25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA70

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC	21U	METHOXYCHLOR
2.1U	BETA-BHC	4.1U	ENDRIN KETONE
2.1U	DELTA-BHC	4.1U	ENDRIN ALDEHYDE
2.1U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.1U	HEPTACHLOR	0.60J	GAMMA-CHLORDANE /2
2.1U	ALDRIN	0.37J	ALPHA-CHLORDANE /2
2.1U	HEPTACHLOR EPOXIDE	210U	TOKAPENE
2.1U	ENDOSULFAN I (ALPHA)	41U	PCB-1016 (AROCOLOR 1D16)
4.1U	DIELDRIN	41U	PCB-1221 (AROCOLOR 1221)
4.1U	4,4'-DDDE (P,P'-DDE)	820	PCB-1231 (AROCOLOR 1232)
4.1U	ENDRIN	41U	PCB-1232 (AROCOLOR 1232)
4.1U	ENDOSULFAN II (BETA)	41U	PCB-1248 (AROCOLOR 1248)
4.1U	4,4'-DDD (P,P'-DDD)	41U	PCB-1254 (AROCOLOR 1254)
7.2U	ENDOSULFAN SULFATE	41U	PCB-1260 (AROCOLOR 1260)
4.1U	4,4'-DDT (P,P'-DDT)	19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSP COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-02 COLLECTION START: 01/30/91 1125 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA71

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC	21U	METHOXYCHLOR
2.1U	BETA-BHC	4.1U	ENDRIN KETONE
2.1U	DELTA-BHC	4.1U	ENDRIN ALDEHYDE
2.1U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
2.1U	HEPTACHLOR	2.1U	GAMMA-CHLORDANE /2
2.1U	ALDRIN	2.1U	ALPHA-CHLORDANE /2
2.1U	HEPTACHLOR EPOXIDE	210U	TOXAPHENE
2.1U	ENDOSULFAN I (ALPHA)	41U	PCB-1016 (AROCOLOR 1016)
4.1U	DETOLDRIN	41U	PCB-1221 (AROCOLOR 1221)
4.1U	4,4'-DDE (P,P'-DDE)	83U	PCB-1232 (AROCOLOR 1232)
4.1U	ENDRIN	41U	PCB-1242 (AROCOLOR 1242)
4.1U	ENDOSULFAN II (BETA)	41U	PCB-1248 (AROCOLOR 1248)
4.1U	4,4'-DDD (P,P'-DDD)	41U	PCB-1254 (AROCOLOR 1254)
4.1U	ENDOSULFAN SULFATE	41U	PCB-1260 (AROCOLOR 1260)
4.1U	4,4'-DDT (P,P'-DDT)	21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA72

ANALYTICAL RESULTS

UG/KG
2.1UR ALPHA-BHC
2.1UR BETA-BHC
2.1UR DELTA-BHC
2.1UR GAMMA-BHC (LINDANE)
2.1UR HEPTACHLOR
2.1UR ALDRIN
2.1UR HEPTACHLOR EPOXIDE
2.1UR ENDOSULFAN I (ALPHA)
4.OUR DIELDRIN
110U 4,4'-DDE (P,P'-DDE)
4.OUR ENDRIN
4.OUR ENDOSULFAN II (BETA)
22U 4,4'-DDD (P,P'-DDD)
4.OUR ENDOSULFAN SULFATE
230U 4,4'-DDT (P,P'-DDT)

UG/KG
21UR METHOXYCHLOR
4.OUR ENDRIN KETONE
4.OUR ENDRIN ALDEHYDE
— CHLORDANE (TECH. MIXTURE) /1
2.1UR GAMMA-CHLORDANE /2
2.1UR ALPHA-CHLORDANE /2
21OUR TOXAPHENE
40UR PCB-1016 (AROCLOL 1016)
40UR PCB-1221 (AROCLOL 1221)
81UR PCB-1232 (AROCLOL 1232)
40UR PCB-1242 (AROCLOL 1242)
40UR PCB-1248 (AROCLOL 1248)
40UR PCB-1254 (AROCLOL 1254)
40UR PCB-1260 (AROCLOL 1260)
19 PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 0-206 SAMPLE NO: 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SITE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AA73

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC	21U	METHOXYCHLOR
2.1U	BETA-BHC	4.1U	ENDRIN KETONE
2.1U	DELTA-BHC	4.1U	ENDRIN ALDEHYDE
3.6U	CHLORDANE (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.1U	HEPTACHLOR	70	GAMMA-CHLORDANE /2
2.8	ALDRIN	98	ALPHA-CHLORDANE /2
2.1U	HEPTACHLOR EPOXIDE	210U	TOXAPHENE
2.1U	ENDOSULFAN I (ALPHA)	41U	PCB-1016 (AROCLOL 1016)
4.1U	DIELDRIN	41U	PCB-1221 (AROCLOL 1221)
4.1U	4,4'-DDE (P,P'-DDE)	82U	PCB-1232 (AROCLOL 1232)
6.0U	ENDRIN	41U	PCB-1242 (AROCLOL 1242)
4.1U	ENDOSULFAN II (BETA)	41U	PCB-1248 (AROCLOL 1248)
4.1U	4,4'-DDD (P,P'-DDD)	41U	PCB-1254 (AROCLOL 1254)
4.1U	ENDOSULFAN SULFATE	41U	PCB-1260 (AROCLOL 1260)
4.1U	4,4'-DDT (P,P'-DDT)	20	PERCENT MOISTURE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWATER PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MM-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AA74

UG/L ANALYTICAL RESULTS

0.050U ALPHA-BHC
0.050U BETA-BHC
0.050U DELTA-BHC
0.050U GAMMA-BHC (LINDANE)
0.050U HEPTACHLOR
0.050U ALDRIN
0.050U HEPTACHLOR EPOXIDE
0.050U ENDOSULFAN I (ALPHA)
0.10U DIELDRIN
0.10U 4,4'-DDE (P,P'-DDE)
0.10U ENDRIN
0.10U ENDOSULFAN II (BETA)
0.10U 4,4'-DDD (P,P'-DDD)
0.10U ENDOSULFAN SULFATE
0.10U 4,4'-DDT (P,P'-DDT)

UG/L ANALYTICAL RESULTS

0.50U METHOXYCHLOR
0.10U ENDRIN KETONE
0.10U ENDRIN ALDEHYDE
CHLORDANE (TECH. MIXTURE) /1
0.050U GAMMA-CHLORDANE /2
0.050U ALPHA-CHLORDANE /2
5.0U TOXAPHENE
1.0U PCB-1016 (AROCLOL 1016)
1.0U PCB-1221 (AROCLOL 1221)
2.0U PCB-1232 (AROCLOL 1232)
1.0U PCB-1242 (AROCLOL 1242)
1.0U PCB-1248 (AROCLOL 1248)
1.0U PCB-1254 (AROCLOL 1254)
1.0U PCB-1260 (AROCLOL 1260)

FOOTNOTES

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*C-CONFIRMED BY GCMS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54451 SAMPLE TYPE: GROUNDMA PROC ELEM: NSF COLLECTED BY: C BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MN-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA76

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

0.05OU	ALPHA-BHC	0.5OU	METHOXYCHLOR
0.05OU	BETA-BHC	0.1OU	ENDRIN IN KETONE
0.05OU	DELTA-BHC	0.1OU	ENDRIN AND DETRODE
0.05OU	HEXA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.05OU	HEPTACHLOR	0.05OU	GAMMA-CHLORDANE /2
0.05OU	ALDRIN	0.05OU	ALPHA-CHLORDANE /2
0.05OU	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.05OU	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.1OU	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.1OU	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.1OU	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.1OU	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCLOL 1248)
0.1OU	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
0.1OU	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCLOL 1260)
0.1OU	4,4'-DDT (P,P'-DDT)		

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AASO

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

0.050UJ ALPHA-BHC	0.50UJ METHOXVCHLOR
0.050UJ BETA-BHC	0.10UJ ENDRIN KETONE
0.050UJ DELTA-BHC	0.10UJ ENDRIN ALDEHYDE
0.050UJ GAMMA-BHC (LINDANE)	0.05UJ CHLORDANE ((TECH. MIXTURE) /1
0.050UJ HEPTACHLOR	0.05UJ GAMMA-CHLORDANE /2
0.050UJ ALDRIN	0.05UJ ALPHA-CHLORDANE /2
0.050UJ HEPTACHLOR EPOXIDE	5.0UJ TOXAPHENE
0.050UJ ENDOSULFAN I (ALPHA)	1.0UJ PCB-1016 (AROCLOL 1016)
0.10UJ DIELDRIN	1.0UJ PCB-1221 (AROCLOL 1221)
0.10UJ 4,4'-DDE (P,P'-DDE)	2.0UJ PCB-1232 (AROCLOL 1232)
0.10UJ ENDRIN	1.0UJ PCB-1242 (AROCLOL 1242)
0.10UJ ENDOSULFAN II (BETA)	1.0UJ PCB-1248 (AROCLOL 1248)
0.10UJ 4,4'-DDD (P,P'-DDD)	1.0UJ PCB-1254 (AROCLOL 1254)
0.10UJ ENDOSULFATE	1.0UJ PCB-1260 (AROCLOL 1260)
0.10UJ 4,4'-DDT (P,P'-DDT)	

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-DC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

MD981467073

SITE DICKSON CO. LF (FIT)
PROJECT # 91-266

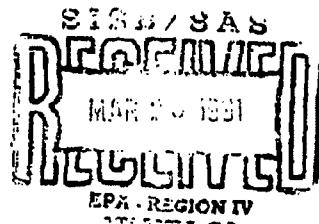
STATE TN
MANAGER ROGER FRANKLIN (NUS)
SHIPWEEK 01/28/91

SOILVOA BOOKED	22	DATA RECEIVED	/ /	FOR	0	SAMPLES
H20VOA BOOKED	13	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILEXT BOOKED	21	DATA RECEIVED	/ /	FOR	0	SAMPLES
H20EXT BOOKED	13	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILPEST BOOKED	21	DATA RECEIVED	/ /	FOR	0	SAMPLES
H20PEST BOOKED	13	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILMET BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H20MET BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILCN BOOKED	21	DATA RECEIVED	03/25/91	FOR	15	SAMPLES
H20CN BOOKED	13	DATA RECEIVED	03/25/91	FOR	10	SAMPLES
SOILOTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
SOILOTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H20OTH1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
H20OTH2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER1 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES
OTHER2 BOOKED	0	DATA RECEIVED	/ /	FOR	0	SAMPLES

LAB(CLP/ESD) CLF



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613



*****MEMORANDUM*****

DATE: 03/15/91

SUBJECT: Results of Metals Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

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INORGANIC DATA QUALIFIERS REPORT

Case Number: 15773
 Project Number: 91-266
 Site: Dickson Co. If. Dickson, TN

<u>Element</u>	<u>Flag</u>	<u>Samples Affected</u>	<u>Reason</u>
<u>A. Water</u>			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Ca, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Se	J	All positives	Matrix spike recovery - 199.6%
Pb	J	All	Matrix duplicate RPD - 62.7% Blind spike recovery - 176%
Zn	J	All	Serial dilution percent difference - 16.7%
<u>B. Soils</u>			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Sb	J	All positives	Matrix spike recovery - 0%
	R	All negatives	
As	J	All	Matrix spike recovery - 55% Matrix duplicate RPD - 73.8%
Cr	J	All	Matrix spike recovery - 53.1%
Pb	J	All positives	Matrix spike recovery - 27.3%
	R	All negatives	Blind spike recovery - 176%
Se	J	All positives	Matrix spike recovery - 18.4%
	R	All negatives	
Al	J	All	Matrix duplicate RPD - 48.1%

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO 91-266 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD ***
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
** CASE NUMBER: 15773 MD NUMBER: AASO ***

*** UG/L ANALYTICAL RESULTS ***

47U	ALUMINUM	1U	MANGANESE
30U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	9U	NICKEL
5U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	STERE
37U	CALCIUM	250U	SODIUM
3U	CHROMIUM	2U	THALLIUM
4U	COBALT	NA	TIN
3U	COPPER	2U	VANADIUM
4U	IRON	3UJ	ZINC
19U	LEAD		
26U	MAGNESIUM		

*** UG/L ANALYTICAL RESULTS ***

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AAS2

MG/KG

ANALYTICAL RESULTS	
13000J	ALUMINUM
7.9UR	ANTIMONY
6.3J	ARSENIC
58	BARIUM
1U	BERYLLIUM
1U	CADMIUM
210	CALCIUM
43J	CHROMIUM
13	COBALT
28	COPPER
28000	IRON
24J	LEAD
790	MAGNESIUM

MG/KG

ANALYTICAL RESULTS	
520	MANGANESE
.12U	MERCURY
8.3	NICKEL
560	POTASSIUM
10J	SELENIUM
1U	SILVER
220U	SODIUM
NA	TANTALUM
39	TIN
39	VANADIUM
32	ZINC
24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

** PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
** SOURCE: DICKSON CO. LF PROC ELEM: NSF COLLECTED BY: G BEINFIELD
** STATION ID: SB-01 CITY: DICKSON ST: TN
** CASE NUMBER: 15773 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
** MD NUMBER: AA53

** MG/KG ANALYTICAL RESULTS

130000	ALUMINUM	67	MANGANESE
7.2UR	ANTIMONY	12U	MERCURY
3.7J	ARSENIC	11	NICKEL
35	BARIUM	350	POTASSIUM
10	BERYLLIUM	18J	SELENIUM
1.5	CADMIUM	24	SILVER
88	CALCIUM	130U	SODIUM
63J	CHROMIUM	48U	THALLIUM
7U	COBALT	NA	TIN
15	COPPER	49	VANADIUM
40000	IRON	35	ZINC
14J	LEAD	15	PERCENT MOISTURE
420	MAGNESIUM		

** MG/KG ANALYTICAL RESULTS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA54

MG/KG ANALYTICAL RESULTS

9300J	ALUMINUM	320	MANGANESE
8. SUR	ANTIMONY	.13U	MERCURY
5.3J	ARSENIC	9.5	NICKEL
55	BARIUM	400	POTASSIUM
1U	BERYLLIUM	.55UR	SELENIUM
1U	CADMIUM	1.1U	SILVER
4500	CALCIUM	210U	SODIUM
37J	CHROMIUM	.56U	THALLIUM
6U	COBALT	NA	TIN
40	COPPER	43	VANADIUM
27000	IRON	180	ZINC
49J	LEAD	29	PERCENT MOISTURE
720	MAGNESIUM		

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

* * * * * ANALYTICAL RESULTS

MG/KG	ANALYTICAL RESULTS	MG/KG	ANAL.
15000J	ALUMINUM	47	MANGANESE
8.70R	ANTIMONY	.12U	MERCURY
3.6J	ARSENIC	6	NICKEL
31	BARIUM	1000	POTASSIUM
1u	BERYLLIUM	.58UR	SELENIUM
.58U	CADMIUM	1.2U	SILVER
1000	CALCIUM	3300	SODIUM
31J	CHROMIUM	.58U	THALLIUM
50	COBALT	NA	TIN
29	COPPER	43	VANADIUM
12000	IRON	34	ZINC
12J	LEAD	31	PERCENT MOISTURE
780	MAGNESIUM		

ANALYTICAL RESULTS

NO./KG	ANAL
47	MANGANESE
12U	MERCURY
6	NICKEL
1000	POTASSIUM
58UR	SELENIUM
1 2U	SILVER
3300	SODIUM
58U	THALLIUM
NA	TIN
43	VANADIUM
34	ZINC
31	PERCENT MOISTURE

REMARKS

* * * REMARKS * * *

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/81

METALS DATA REPORT

** PROJECT NO: 91-268 SAMPLE NO: 54432 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD **
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN **
** STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00 **
** CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA56 **

** MG/KG ANALYTICAL RESULTS

13000	ALUMINUM	95	MANGANESE
8.2UR	ANTIMONY	.13U	MERCURY
4.4J	ARSENIC	6.8	NICKEL
32	BARIUM	520	POTASSIUM
10	BERYLLIUM	.55UR	SELENIUM
10	CADMIUM	.0U	SILVER
380	CALCIUM	190U	SODIUM
31U	CHROMIUM	.65U	THALLIUM
4U	COBALT	NA	TIN
17	COPPER	41	VANADIUM
25000	IRON	27	ZINC
11J	LEAD	27	PERCENT MOISTURE
530	MAGNESIUM		

** MG/KG ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
** CASE NUMBER: 15773 MD NUMBER: AAS8

UG/L	ANALYTICAL RESULTS
84	ALUMINUM
30U	ANTIMONY
2U	ARSENIC
17	BARIUM
10	BERYLLIUM
2U	CADMIUM
22000	CALCIUM
3U	CHROMIUM
3U	COBALT
3U	COPPER
40U	IRON
5UJ	LEAD
2100	MAGNESIUM

UG/L	ANALYTICAL RESULTS
5U	MANGANESE
20U	MERCURY
9U	NICKEL
640U	POTASSIUM
1U	SELENIUM
1U	SILVER
1600U	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
3UJ	ZINC

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA57

UG/L	ANALYTICAL RESULTS
47U	ALUMINUM
30U	ANTIMONY
4U	ARSENIC
8U	BARIUM
1U	BERYLLIUM
2U	CADMIUM
43000	CALCIUM
3U	CHROMIUM
3U	COBALT
11	COPPER
20U	IRON
11J	LEAD
5000	MAGNESIUM

UG/L	ANALYTICAL RESULTS
2U	HANANESE
20U	MERCURY
6U	NICKEL
200U	POTASSIUM
1U	SELENIUM
4U	SILVER
1900U	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
230J	ZINC

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
** CASE NUMBER: 15773 MD NUMBER: AA60

*** UG/L ANALYTICAL RESULTS
47U ALUMINUM
30U ANTIMONY
2U ARSENIC
70 BARIUM
1U BERYLLIUM
2U CADMIUM
35000 CALCIUM
3U CHROMIUM
4U COBALT
3U COPPER
530 IRON
6J LEAD
12000 MAGNESIUM

UG/L ANALYTICAL RESULTS
460 MANGANESE
.20U MERCURY
9U NICKEL
15000 POTASSIUM
40J SILVER
1U SODIUM
62000 THALLIUM
NA TIN
2U VANADIUM
40J ZINC

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON, O. LF CITY: DICKSON ST: TN
*** STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AASO ***

*** MG/KG ***
4500J ALUMINUM
9UR ANTIMONY
4.4J ARSENIC
58 BARIUM
1U BERYLLIUM
1 CADMIUM
1600 CALCIUM
30U CHROMIUM
20U COBALT
17 COPPER
19000 IRON
12J LEAD
250 MAGNESIUM

ANALYTICAL RESULTS

*** MG/KG ***
830 MANGANESE
.15U MERCURY
13 NICKEL
230 POTASSIUM
60UR SelenIUM
12U SILVER
140U SODIUM
60U THALLIUM
NA TIN
25 VANADIUM
56 ZINC
34 PERCENT MOISTURE

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/28/91 1130 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AA61

	ANALYTICAL RESULTS
8300J	ALUMINUM
8.5UR	ANTIMONY
24U	ARSENIC
25	BARIUM
1U	BERILLIUM
.57U	CAOMIUM
500	CALCIUM
29U	CHROMIUM
4U	COBALT
15	COPPER
25000	IRON
8.6J	LEAD
350	MAGNESIUM

	ANALYTICAL RESULTS
100	MANGANESE
.14U	MERCURY
2.6U	NICKEL
300	POTASSIUM
.57UR	SELENIUM
1.1U	SILVER
1600	SODIUM
.57U	TITANIUM
NA	TIN
34	VANADIUM
18	ZINC
30	PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
*** CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA62

UG/L	
2000	ALUMINUM
300	ANTIMONY
3U	ARSENIC
63	BARIUM
1U	BERYLLIUM
2U	CADMIUM
9700	CALCIUM
3U	CHROMIUM
20U	COBALT
3U	COPPER
11000	IRON
7J	LEAD
3100	MAGNESIUM

* * * * * ANALYTICAL RESULTS

UG/L	MANGANESE
1800	MERCURY
.20U	NICKEL
.9U	POTASSIUM
1500	SELENIUM
.2UJ	SILVER
.4U	SODIUM
4100U	THALLIUM
.2U	TIN
.NA	VANADIUM
.6	ZINC
.26J	

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NAI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
•R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-268 SAMPLE NO: 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA63 ***

MG/KG	ANALYTICAL RESULTS
8500J	ALUMINUM
B 5UR	ANTIMONY
5.2J	ARSENIC
66	BARIUM
10	BERYLLIUM
1400	CAPTION
28J	CALCIUM
8U	CHROMIUM
19	COBALT
22000	COPPER
20J	IRON
710	LEAD
	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
460	MANGANESE
.14U	MERCURY
6.5	NICKEL
300	POTASSIUM
57UR	SELENIUM
11	SILVER
150U	SODIUM
57U	THALLIUM
NA	TIN
29	VANADIUM
43	ZINC
29	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-268 SAMPLE NO: 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ** SOURCE: DICKSON CO. LT CITY: DICKSON ST: TN
 ** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
 ** CASE NUMBER: 15773 MD NUMBER: AAG3

MG/KG	ANALYTICAL RESULTS
8500J	ALUMINUM
8.5UR	ANTIMONY
5.2J	ARSENIC
66	BARIUM
10	BERYLLIUM
10	CADMIUM
1400	CALCIUM
20J	CHROMIUM
80	COBALT
19	COPPER
22000	IRON
20J	LEAD
710	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
460	MANGANESE
.14U	MERCURY
6.5	NICKEL
300	POTASSIUM
57UR	SELENIUM
1.1U	SILICON
150U	SODIUM
67U	THALLIUM
NA	TIN
29	VANADIUM
43	ZINC
29	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G. BEINFIELD
 ** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ** STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
 ** CASE NUMBER: 15773 MD NUMBER: AA64

*** MG/KG
 16000J ALUMINUM
 12UR ANTIMONY
 5.6J ARSENIC
 60 BARIUM
 1U BERYLLIUM
 1U CADMIUM
 1600 CALCIUM
 37J CHROMIUM
 7J COPPER
 25 IRON
 26000 LEAD
 15J MAGNESIUM
 1200 MAGNESIUM

ANALYTICAL RESULTS

*** MG/KG
 200 MANGANESE
 .19U MERCURY
 13 NICKEL
 840 POTASSIUM
 .80UR SELENIUM
 1.6U SILVER
 2900 SODIUM
 .20U THALLIUM
 NA TIN
 52 VANADIUM
 53 ZINC
 50 PERCENT MOISTURE

ANALYTICAL RESULTS

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L-LIMIT VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *D-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/81

METALS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO., LF CITY: DICKSON ST: TN
*** STATION ID: SW02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AAGS ***

UG/L ANALYTICAL RESULTS
570 ALUMINUM
30U ANTIMONY
3U ARSENIC
130 BARIUM
1U BERYLLIUM
2U CADMIUM
48000 CALCIUM
3U CHROMIUM
20U COBALT
3U COPPER
10000 IRON
5J LEAD
16000 MAGNESIUM

UG/L ANALYTICAL RESULTS
3200 MANGANESE
20U MERCURY
9U NICKEL
14000 POTASSIUM
1U SELENIUM
4U SODIUM
55000 SODIUM
2U TELLURIUM
NA TIN
20 VANADIUM
20UJ ZINC

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

** TOTALS DATA REPORT **
PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF STATE: TN CITY: JACKSON
STATION: S-020 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
ASF NUMBER: 15223 SAS NUMBER: MD NUMBER: AAB5

UG/L	
570	ALUMINUM
300	ANTIMONY
30	ARSENIC
130	BARIUM
10	BERYLLIUM
20	CADMIUM
48000	CALCIUM
30	CHROMIUM
200	COBALT
30	COPPER
10000	IRON
5J	LEAD
16000	MAGNESIUM

• • • • • ANALYTICAL RESULTS

UG/L	
3200	MANGANESE
.200	MERCURY
.9U	NICKEL
14000	POTASSIUM
1U	SELENIUM
.4U	SILVER
56000	SODIUM
.2U	THALLIUM
.NA	TIN
.2U	VANADIUM
.20W	ZINC

* * * * * ANALYTICAL RESULTS

REMARKS

* * * REMARKS * * *

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROC ELEM: NSF COLLECTED BY: C BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA88 ***

*** UG/L ANALYTICAL RESULTS
63 ALUMINUM
40U ANTIMONY
2U ARSENIC
16 BARIUM
1U BERYLLIUM
2U CADMIUM
23000 CALCIUM
3U CHROMIUM
3U COBALT
3U COPPER
60U IRON
3UJ LEAD
2700 MAGNESIUM

*** UG/L ANALYTICAL RESULTS
5U MANGANESE
.20U MERCURY
9U NICKEL
640U POTASSIUM
1U SELENIUM
4U SILVER
1600U SODIUM
2U THALLIUM
NA TIN
2U VANADIUM
SUJ ZINC

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-268 SAMPLE NO: 54442 SAMPLE TYPE: SURFACEWA PROC ELEM: NSF COLLECTED BY: G BEINFIELD ***
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SW03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
** CASE NUMBER: 15773 MD NUMBER: A466 ***

*** UG/L ANALYTICAL RESULTS
63 ALUMINUM
40U ANTIMONY
2U ARSENIC
16 BARIUM
1U BERYLLIUM
2U CADMIUM
23000 CALCIUM
3U CHROMIUM
3U COBALT
3U COPPER
60U IRON
3UJ LEAD
2700 MAGNESIUM

UG/L ANALYTICAL RESULTS
5U MANGANESE
20U MERCURY
9U NICKEL
640U POTASSIUM
1U SeleniUM
1U SILVER
1600U SODIUM
2U THALLIUM
NA TIN
2U VANADIUM
3UJ ZINC

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54443 SAMPLE TYPE: SOIL
*** SOURCE: DICKSON CO. LP PROC ELEM: NSF COLLECTED BY: G.BEINFIELD
*** STATION ID: SD-03 CITY: DICKSON ST: TN
*** CASE NUMBER: 16773 COLLECTION START: 01/28/91 1340 STOP: 00/00/00
*** MD NUMBER: AAG7

MG/KG ANALYTICAL RESULTS

2500J	ALUMINUM
8UR	ANTIMONY
2-BJ	ARSENIC
26	BARIUM
1U	BERILLIUM
1U	CADMIUM
1500	CALCIUM
31J	CHROMIUM
29	COBALT
13	COPPER
14000	IRON
7.3J	LEAD
110	MAGNESIUM

MG/KG ANALYTICAL RESULTS

880	MANGANESE
.13U	MERCURY
.90	NICKEL
170	POTASSIUM
.53UR	SELENIUM
.11	SILVER
1700	SODIUM
.53U	THALLIUM
NA	TIN
.19	VANADIUM
.52	ZINC
25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54444 SAMPLE TYPE: SURFACECA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: SW-05 LFB DATE: 01/29/91 STATE: ST TN
CASE NUMBER: 15773 SAS NUMBER: COLLECTION START: 01/29/91 1440 STOP: 00/00/00
MD NUMBER: AA6B

UG/L	
84	ALUMINUM
30U	ANTIMONY
2U	ARSENIC
93	BARIUM
1U	BERYLLIUM
2U	CADMIUM
69000	CALCIUM
3U	CHROMIUM
3U	COBALT
3U	COPPER
90U	IRON
2UJ	LEAD
11000	MAGNESIUM

* * * * * ANALYTICAL RESULTS

UG/L

* * * * * ANALYTICAL RESULTS

GANES
CURY
KEL
ASSIUM
ENIUM
VER
IUM
LLIUM
ADIUM
C

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-265 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AA69

MG/KG

	ANALYTICAL RESULTS
3700J	ALUMINUM
8.5UR	ANTIMONY
3.5J	ARSENIC
17	BARIUM
1U	BERYLLOIUM
38000	CALCIUM
33J	CHROMIUM
3U	COBALT
22	COPPER
18000	IRON
27J	LEAD
7100	MAGNESIUM

MG/KG

	ANALYTICAL RESULTS
140	MANGANESE
.14U	MERCURY
6.2	NICKEL
330	POTASSIUM
.57UR	SCELIUM
1.4U	STERE
290U	SODIUM
.57U	THALLIUM
NA	TTN
23	VANADIUM
40	ZINC
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-288 SAMPLE NO. S4446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: 55-02 COLLECTION START: 01/30/91 1036 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA70

***** MG/KG *****
 17000J ALUMINUM
 7.6UR ANTIMONY
 3.8J ARSENIC
 53 BARIUM
 1U BERYLLIUM
 2U CADMIUM
 1400 CALCIUM
 37J CHROMIUM
 6U COBALT
 21 COPPER
 29000 IRON
 20J LEAD
 980 MAGNESIUM

***** MG/KG *****
 160 MANGANESE
 12U MERCURY
 8J NICKEL
 620 POTASSIUM
 51UR SELENIUM
 1U SILVER
 170U SODIUM
 .51U THALLIUM
 NA TIN
 46 VANADIUM
 46 ZINC
 21 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

••• PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ••• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ••• STATION ID: SB-02 COLLECTION START: 01/30/91 1125 STOP: 00/00/00
 ••• CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA71

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
13000J	ALUMINUM	120	MANGANESE
7.8UR	ANTIMONY	13U	MERCURY
4.5J	ARSENIC	14	NICKEL
40	BARIUM	570	POTASSIUM
1U	BERYLLIUM	10J	SELENIUM
1.4	CADMIUM	2U	SILVER
530	CALCIUM	260U	SODIUM
64J	CHROMIUM	.52U	THALLIUM
6U	COBALT	NA	TIN
18	COPPER	57	VANADIUM
41000	IRON	84	ZINC
10J	LEAD	23	PERCENT MOISTURE
470	MAGNESIUM		

•••REMARKS•••

•••REMARKS•••

•••FOOTNOTES•••

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA72

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
10000J	ALUMINUM	290	MANGANESE
9.2UR	ANTIMONY	15U	MERCURY
4.1J	ARSENIC	8.5	NICKEL
88	BARIUM	420	POLATIUM
1U	BERYLLIUM	10U	SELENIUM
2U	CADMIUM	1.2U	SILVER
4200	CALCIUM	1900	SODIUM
31J	CHROMIUM	62U	THALLIUM
5U	COBALT	NA	TIN
130	COPPER	38	VANADIUM
27000	IRON	110	ZINC
42J	LEAD	35	PERCENT MOISTURE
610	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
 *** CASE NUMBER: 15773 MD NUMBER: AA73

*** MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
2400J	ALUMINUM	911U	MANGANESE
5.9UR	ANTIMONY	111U	MERCURY
2UJ	ARSENIC	2.1U	NICKEL
70	BARIUM	180	POTASSIUM
.23U	BERYLLIUM	.46UR	SELENIUM
1U	CADMIUM	.92U	SILVER
1900	CALCIUM	610U	SODIUM
3.5J	CHROMIUM	.46U	THALLIUM
2U	COBALT	NA	TIN
14	COPPER	1U	VANADIUM
7400	IRON	140	ZINC
6.5J	LEAD	13	PERCENT MOISTURE
670	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROC ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
 *** CASE NUMBER: 15773 MD NUMBER: AA75

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
7600	ALUMINUM	2100	MANGANESE
30U	ANTIMONY	20U	MERCURY
2U	ARSENIC	29	NICKEL
89	BARIUM	570	POTASSIUM
2U	BERYLLIUM	10	SELENIUM
35,000	CADMIUM	4U	SILVER
13	CALCIUM	2100U	SODIUM
30U	CHROMIUM	2U	THALLIUM
12	COPPER	NA	TIN
8800	IRON	15	VANADIUM
18U	LEAD	87J	ZINC
1600	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROC ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: M001 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AA74

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
900	ALUMINUM	130	MANGANESE
40U	ANTIMONY	.20U	MERCURY
2U	ARSENIC	.9U	NICKEL
20	BARIUM	.0000	POTASSIUM
1U	BERYLLIUM	.1U	SILVER
2U	CADMIUM	.4100U	SODIUM
51000	CALCIUM	.2U	THALLIUM
11	CHROMIUM	.NA	TIN
7U	COBALT	.5U	VANADIUM
4U	COPPER	120J	ZINC
1600	IRON		
8J	LEAD		
4500	MAGNESIUM		

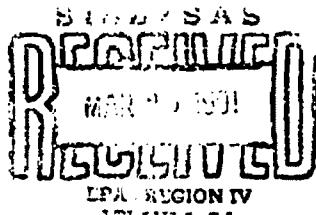
REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region IV
Environmental Services Division
College Station Road, Athens, Ga. 30613



*****MEMORANDUM*****

DATE: 03/15/91

SUBJECT: Results of Specified Analysis;
91-266 DICKSON CO. LF
DICKSON TN
CASE NO: 15773

FROM: Robert W. Knight
Chief, Laboratory Evaluation/Quality Assurance Section

TO: PHIL BLACKWELL

Attached are the results of analysis of samples collected as part of the subject project.

As a result of the Quality Assurance Review, certain data qualifiers may have been placed on the data. Attached is a DATA QUALIFIER REPORT which explains the reasons that these qualifiers were required.

If you have any questions please contact me.

ATTACHMENT

INORGANIC DATA QUALIFIERS REPORT

Case Number: 15773

Project Number: 91-266

Site: Dickson Co., Lf. Dickson, TN

<u>Element</u>	<u>Flag</u>	<u>Samples Affected</u>	<u>Reason</u>
<u>A. Water</u>			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Ca, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Se	J	All positives	Matrix spike recovery = 199.6%
Pb	J	All	Matrix duplicate RPD = 62.7% Blind spike recovery = 176%
Zn	J	All	Serial dilution percent difference = 16.7%
<u>B. Soils</u>			
As, Co, Fe, Pb, Se, Zn	U	All positives > IDL but < CRDL	Baseline instability
Sb, Na	U	All positives > IDL but < 10x contaminant level	Positives in Blanks
Sb	J R	All positives All negatives	Matrix spike recovery = 0%
As	J	All	Matrix spike recovery = 55% Matrix duplicate RPD = 73.8%
Cr	J	All	Matrix spike recovery = 53.1%
Pb	J R	All positives All negatives	Matrix spike recovery = 27.3% Blind spike recovery = 176%
Se	J R	All positives All negatives	Matrix spike recovery = 18.4%
Al	J	All	Matrix duplicate RPD = 48.1%

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-288 SAMPLE NO: 54427 SAMPLE TYPE: SURFACEWA PROC ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: MD NO: AA50

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROC ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: SS-01 CITY: DICKSON ST: TN
CASE NO.: 15773 SAS NO.: COLLECTION START: 01/28/91 1515 STOP: 00/00/00
D. NO.: AA52 MD NO.: AA52

RESULTS UNITS PARAMETER
2.501 MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: O. NO.: AA53 MD NO: AA53

RESULTS UNITS PARAMETER
2.200 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G. BEINFIELD
SOURCE: DICKSON CO., LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA54 MD NO.: AA54

RESULTS UNITS PARAMETER
2.301 MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: Q.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: A455 MD NO.: A455

RESULTS UNITS PARAMETER
2.6U MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-03 COLLECTION START: 01/28/91 1820 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA56 MD NO: AA56

RESULTS UNITS PARAMETER
2.50U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PM-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA57 MD NO: AA57

RESULTS UNITS PARAMETER
12U UG/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO: 91-288 SAMPLE NO: 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
*** CASE NO.: 15778 SAS NO.: D. NO.: AA58 MD NO: AA58

RESULTS UNITS PARAMETER
120 UG/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G REINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA59 MD NO.: AA59 ***

RESULTS UNITS PARAMETER
2.60U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: MSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
*** STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA60 MD NO: AA60

RESULTS UNITS PARAMETER
20 ug/l CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO.: AA61

RESULTS UNITS PARAMETER
2.501 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

** PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
** CASE NO.: 15773 SAS NO.: D. NO.: AA62 MD NO.: AA62

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA75 MD NO.: AA75

RESULTS UNITS PARAMETER
TOU UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54450 SAMPLE TYPE: GROUNDWA
 SOURCE: DICKSON CO. LF PROG ELEM: NSP COLLECTED BY: G BEINFIELD
 STATION ID: MW-01 CITY: DICKSON ST: TN
 CASE NUMBER: 15773 COLLECTION START: 04/30/91 1545 STOP: 00/00/00
 SAS NUMBER: D. NUMBER: AA74

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	1.0U	PCB-1016 (AROCOLOR 1016)
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1022 (AROCOLOR 1221)
0.10U	DIELDRIN	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	4,4'-DDE (P,P'-DDE)	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDRIN	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	ENDOSULFAN SULFATE		
0.10U	4,4'-DDT (P,P'-DDT)		

*****FOOTNOTES*****

- *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-DETECTABLE WAS ANALYZED FOR BUT NOT DETECTED *T NUMBER IS THE MINIMUM QUANTITATION LIMIT
- *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
- *C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSP COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LT CITY: DICKSON ST: TN
STATION ID: MM-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	METHOXYCHLOR	0.50U	
0.10U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DETA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	LINDANE (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPHEN
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDBW PROC ELEM: NSF COLLECTED BY: C BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PM-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AAS7

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)	--	CHLORDANE (ITEMS. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPONIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCLOL 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCLOL 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *HAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROC. ELEM: NSF COLLECTED BY: G. BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AASQ

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GANMA-BHC (LINDANE)	0.050U	LINDANE (TELE. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1246 (AROCLOL 1246)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
0.10U	ENDOSULFAN SULFAIE	1.0U	PCB-1260 (AROCLOL 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSP COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-02 COLLECTION START: 01/20/91 1215 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AAB6

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.028J	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1216 (AROCOLOR 1016)
0.10U	DDELTIN	1.0U	PCB-1220 (AROCOLOR 1220)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	ENDOSULFAN SULFADE	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
 *** STATION ID: SW-03 COLLECTION START: 01/28/91 1330 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA66

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	CHLORPHEN
0.050U	DIELFOLAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.10U	DIELFOLIN	2.0U	PCB-1221 (AROCLOL 1221)
0.10U	4,4'-DDOE (P,P'-DDOE)	1.0U	PCB-1242 (AROCLOL 1242)
0.10U	ENDRIN	1.0U	PCB-1246 (AROCLOL 1246)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1254 (AROCLOL 1254)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1260 (AROCLOL 1260)
0.10U	ENDOSULFAN SULFATE		
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.05OU	ALPHA-BHC	0.50U	METHOXYCHLOR
0.05OU	BETA-BHC	0.10U	ENDRIN ALCOHOL
0.05OU	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.05OU	GAMMA-BHC (LINDANE)		CHLORDANE (TECH MIXTURE) /1
0.05OU	HEPTACHLOR	0.05OU	GAMMA-CHLORDANE /2
0.05OU	ALDRIN	0.05OU	ALPHA-CHLORDANE /2
0.05OU	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.05OU	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.1OU	DIEDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.1OU	ENDRIN (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.1OU	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.1OU	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCLOL 1248)
0.1OU	4,4'-DDO (P,P'-DDO)	1.0U	PCB-1254 (AROCLOL 1254)
0.1OU	ENDOSULFAN SULFAIE	1.0U	PCB-1260 (AROCLOL 1260)
0.1OU	4,4'-DDT (P,P'-DDT)		

REMARKS

* * -REMARKS- * *

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSP COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
 CASE NUMBER: 15773 D. NUMBER: A60

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIM KETONE
0.050U	DELTA-BHC	0.10U	ENDRIM ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1018 (AROCLOL 1018)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCLOL 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCLOL 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
 *** CASE NUMBER: 15773 D. NUMBER: AA68

*** UG/L ANALYTICAL RESULTS

0.050U ALPHA-BHC
 0.050U BETA-BHC
 0.050U DELTA-BHC
 0.050U GAMMA-BHC (LINDANE)
 0.050U HEPTACHLOR
 0.050U ALDRIN
 0.050U HEPTACHLOR EPOKIDE
 0.050U ENDOSULFAN I (ALPHA)
 0.10U ALDRIN
 0.10U 4,4'-DDE (P,P'-DDE)
 0.10U ENDRIN
 0.10U ENDOSULFAN II (BETA)
 0.10U 4,4'-DDD (P,P'-DDD)
 0.10U ENDOSULFAN SULFATE
 0.10U 4,4'-DDT (P,P'-DDT)

*** UG/L ANALYTICAL RESULTS

0.50U METHOXYCHLOR
 0.10U ENDRIN KETONE
 0.10U ENDRIN ALDEHYDE
 -- CHLORDANE (TECH. MIXTURE) /1
 0.050U GAMMA-CHLORDANE /2
 0.050U ALPHA-CHLORDANE /2
 5.0U TOXAPHENE
 1.0U PCB-1221 (AROCLODR 1016)
 1.0U PCB-1231 (AROCLODR 1232)
 1.0U PCB-1242 (AROCLODR 1242)
 1.0U PCB-1246 (AROCLODR 1246)
 1.0U PCB-1254 (AROCLODR 1254)
 1.0U PCB-1260 (AROCLODR 1260)

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: TB-OIW COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AASO

UG/L ANALYTICAL RESULTS

0.050UJ ALPHA-BHC
0.050UJ BETA-BHC
0.050UJ DELTA-BHC
0.050UJ GAMMA-BHC (LINDANE)
0.050UJ HEPTACHLOR
0.050UJ ALDRIN
0.050UJ HEPTACHLOR EPOKIDE
0.050UJ ENDOSULFAN I (ALPHA)
0.10UJ DIELDRIN
0.10UJ 4,4'-DOE (P,P'-DOE)
0.10UJ ENDOSULFAN II (BETA)
0.10UJ 4,4'-DDD (P,P'-DDD)
0.10UJ ENDOSULFAN SULFATE
0.10UJ 4,4'-DDT (P,P'-DDT)

UG/L ANALYTICAL RESULTS

0.50UJ METHOXYCHLOR
0.10UJ ENDRIN KETONE
0.10UJ ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
0.050UJ GAMMA-CHLORDANE /2
0.050UJ ALPHA-CHLORDANE /2
5.0UJ TOKAPHENE
1.0UJ PCB-1016 (AROCOLOR 1016)
1.0UJ PCB-1221 (AROCOLOR 1221)
2.0UJ PCB-1232 (AROCOLOR 1232)
1.0UJ PCB-1242 (AROCOLOR 1242)
1.0UJ PCB-1253 (AROCOLOR 1253)
1.0UJ PCB-1254 (AROCOLOR 1254)
1.0UJ PCB-1260 (AROCOLOR 1260)

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26,1984)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA74 MD NO.: AA74

ANALYTICAL RESULTS ug/L

40J 2 UNIDENTIFIED COMPOUNDS
500JN AMINOHEXANOIC ACID
10JN BUTYLIDENEbis[(DIMETHYLETHYL)METHYL]PHENOL

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26, 1984)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MM-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA75 MD NO.: AA75

ANALYTICAL RESULTS ug/L

20JN AMINOHEXANOIC ACID

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA65

ANALYTICAL RESULTS ug/L

30JN DIMETHYLPROPANE DIOL
5JN CYCLOHEXAMCARBOXYLIC ACID
6JN DIETHYLMETHYL BENZAMIDE
20J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/29/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA60 MD NO.: AA60

ANALYTICAL RESULTS UC/L

4JN DIETHYLMETHYLBENZAMIDE
4JN BENZOTHIAZOLONE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA74

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10UJ PHENOL
10UJ BIS(2-CHLOROETHYL) ETHER
10UJ 2-CHLOROPHENOL
10UJ 1,3-DICHLOROBENZENE
10UJ 1,4-DICHLOROBENZENE
10UJ 1,2-DICHLOROBENZENE
10UJ 2-METHYLPHENOL
10UJ 2,2'-CHLORoisOPROPYLEther
10UJ (3-AND/OR 4-)METHYLPHENOL
10UJ N,N-DIMETHOXY-N-PROPYLAMINE
10UJ HEXACHLOROBUTANE
10UJ NITROBENZENE
10UJ ISOPHORONE
10UJ 2-NITROPHENOL
10UJ 2,4-DIMETHYLPHENOL
10UJ BIS(2-CHLOROETHOX) METHANE
10UJ 2,4-DICHLOROPHENOL
10UJ 1,2,4-TRICHLOROBENZENE
10UJ NAPHTHALENE
10UJ 4-CHLOROANILINE
10UJ 4-CHLOROPROPADIENE
10UJ 4-CHLORO-⁻METHYLPHENOL
10UJ 2-METHYLNAPHTHALENE
10UJ HEXACHLOROCYCLOPENTADIENE (HCPC)
10UJ 2,4,6-TRICHLOROPHENOL
50UJ 2,4,5-TRICHLOROPHENOL
10UJ 2-CHLORONAPHTHALENE
50UJ 2-NITROANILINE
10UJ DIMETHYL PHTHALATE
10UJ ACENAPHTHYLENE
10UJ 2,6-DINITROTOLUENE

50UJ 3-NITROANILINE
10UJ ACENAPHTHENE
50UJ 2,4-DINITROPHENOL
50UJ 4-NITROPHENOL
10UJ DIBENZOFURAN
10UJ 2,4-DINITROTOLUENE
10UJ DIETHYL PHTHALATE
10UJ 4-CHLOROPHENYL PHENYL ETHER
10UJ FLUORENE
50UJ 4-NITROANILINE
50UJ 2,4,6-DINITROPHENOL
10UJ N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ 4-BROMOPHENYL PHENYL ETHER
10UJ HEXACHLOROBENZENE (HCB)
50UJ PENTACHLOROPHENOL
10UJ PHENANTHRENE
10UJ ANTHRACENE
10UJ CARBAZOLE
10UJ DI-N-BUTYLPHthalate
10UJ DIBENZANTHENE
10UJ PYRENE
10UJ BENZYL BUTYL PHTHALATE
10UJ 3,7-DICHLOROBENZIDINE
10UJ BENZO(A)ANTHRACENE
10UJ CHRYSENE
10UJ BIS(2-ETHYLHEXYL) PHTHALATE
10UJ DI-N-OCTYLPHthalate
10UJ BENZOB(B AND/OR K)FLUORANTHENE
10UJ BENZO-A-PYRENE
10UJ INDENO[1,2,3-CD] PYRENE
10UJ DIBENZO(A,H)ANTHRACENE
10UJ BENZO(G,H)PYRENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26, 1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N=INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: NW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

** CASE NO.: 15773

SAS NO.:

U. NO.: AA75

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10UJ PHENOL	50UJ 3-NITROANILINE
10UJ BIS(2-CHLOROETHYL) ETHER	10UJ ACENAPHTHENE
10UJ 2-CHLOROPHENOL	50UJ 2,4-DINITROPHENOL
10UJ 2,4-DICHLOROBENZENE	50UJ 4-NITROPHENOL
10UJ 1,4-DICHLOROBENZENE	10UJ 1-BENZOFURAN
10UJ 1,2-DICHLOROBENZENE	10UJ 2,4-DINITROTOLUENE
10UJ 2-METHYLPHENOL	10UJ DIETHYL PHTHALATE
10UJ 2,2'-CHLOROISOPROPYLETHER	10UJ 4-CHLOROPHENYL PHENYL ETHER
10UJ (3-AND/OR 4-)METHYLPHENOL	10UJ FLUORENE
10UJ N-NITROSO-D-N-PROPYLAMINE	50UJ 4-NITROANILINE
10UJ HEXACHLOROETHANE	50UJ 2,3,5,6-DINITROPHENOL
10UJ M-PROPYLZENE	10UJ N-NITROSO-D-PHENYLAMINE/DIPHENYLAMINE
10UJ 1,3-CYCLOHEXADIENE	10UJ 4-BROMOPHENYL PHENYL ETHER
10UJ 2-NITROPHENOL	10UJ HEXACHLOROBENZENE (HCB)
10UJ 2,4-DIMETHYLPHENOL	50UJ PENTACHLOROPHENOL
10UJ BIS(2-CHLOROETHOXY) METHANE	10UJ PHENANTHRENE
10UJ 2,4-DICHLOROPHENOL	10UJ ANTHRACENE
10UJ 1,2,4-TRICHLOROBENZENE	10UJ CARBAZOLE
10UJ NAPHTHALENE	10UJ DI-N-BUTYLPHTHALATE
10UJ 4-CHLORDANILINE	10UJ FLUORANTHENE
10UJ HEXACHLOROBUTADIENE	10UJ PYRENE
10UJ 4-CHLORO-3-METHYL PHENOL	10UJ BENZO[2,3-B] BUTYL PHTHALATE
10UJ 2,4,5-TRICHLOROPHENOL	10UJ 3,3'-DICHLOROBENZIDINE
10UJ HEXACHLOROCYCLOCHEPTADIENE (HCCP)	10UJ BENZO[1,4]ANTHRACENE
10UJ 2,4,6-TRICHLOROPHENOL	10UJ CHRYSENE
50UJ 2,4,5-TRICHLOROPHENOL	10UJ BIS(2-ETHYLHEXYL) PHTHALATE
10UJ 2-CHLORONAPHTHALENE	10UJ DI-N-OCTYLPHTHALATE
50UJ 2-NITROANILINE	10UJ BENZO(A AND/OR K)FLUORANTHENE
10UJ DIMETHYL PHTHALATE	10UJ BENZO-A-PYRENE
10UJ ACENAPHTHYLENE	10UJ INDENE (1,2,3-CD) PYRENE
10UJ 2,6-DINITROTOLUENE	10UJ O BENZO(A,H)ANTHRACENE
	10UJ O BENZO(OH)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26, 1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *MAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 **U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MAXIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

EXTRACTABLE ORGANICS DATA REPORT
 PROJECT NO. 91-286 SOURCE: DICKSON CO. LF STATION ID: PWD-01
 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWATER
 CASE NO.: 15773 UG/L

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
 EPA-REGION IV ESD, ATHENS, GA,
 CITY: DICKSON COLLECTION START: 01/29/91 ST. TN 0900 STOP: 00/00/00
 PROG. ELEM: NSF D. NO.: AAS7
 COLLECTOR: G. BEINFIELD

ANALYTICAL RESULTS ANALYTICAL RESULTS

Conc.	Chemical Name
10U	PHENOL
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	2,3-AND/OR 4-METHYLPHENOL
10U	N-NITROSO-DI-N-PROPYLAMINE
10U	N,N-DIACLODODETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-MITROPHENOL
10U	BIS(2-CHLOROPHENOL)
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROBUTENE
10U	HEXA-CHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	2,4,6-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHthalate
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE
50U	3-NITROANILINE
50U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHthalate
50U	4-CHEMOPHENYL PHENYL ETHER
50U	FLUORENE
10U	4-NITROANILINE
10U	2-METHYL-4,6-DINITROPHENOL
10U	4-BROMOPHENYL PHENYL ETHER
50U	HEXA-CHLOROBENZENE (HCB)
10U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	CARBAZOLE
10U	DI-N-BUTYLPHthalate
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHthalate
10U	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10U	CHRYSENE
10U	BIS(2-CHLOROPHENOL)
10U	BT-N-DOTYLPHthalate
10U	BENZO(B) AND/OR K FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE

FOOTNOTES
 *A-AVERAGE VALUE
 *K-ACTUAL VALUE
 *U-MATERIAL WAS NOT ANALYZED
 *NA-NOT ANALYZED
 *J-ESTIMATED VALUE
 *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *I-INTERFERENCE
 *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
 *R-OC INDICATES THAT DATA IS UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT.
 RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA58

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10UJ PHENOL
10UJ BIS(2-CHLOROETHYL) ETHER
10UJ 2-CHLOROPHENOL
10UJ 1,3-DICHLOROBENZENE
10UJ 1,4-DICHLOROBENZENE
10UJ 1,2-DICHLOROBENZENE
10UJ 2-METHYLPHENOL
10UJ 2,2'-CHLORODIISOPROPYLETHER
(3-NITROSO-4-METHYLPHENOL
10UJ N-NITROSODIOPHENYLAMINE
10UJ HEXACHLOROETHANE
10UJ NITROBENZENE
10UJ ISOPHORONE
10UJ 2-NITROPHENOL
10UJ 2,4-DIMETHYLPHENOL
10UJ BIS(2-CHLOROETHOKY) METHANE
10UJ 2,4-DICHLOROPHENOL
10UJ 1,2,4-TRICHLOROBENZENE
10UJ NAPHTHALENE
10UJ 4-NITROANILINE
10UJ HEXACHLOROBUTADIENE
10UJ 4-CHLORO-3-METHYLPHENOL
10UJ 2-METHYLNAPHTHALENE
10UJ HEXACHLOROCYCLOPENTADIENE (HCCP)
10UJ 2,4,6-TRICHLOROPHENOL
50UJ 2,4,5-TRICHLOROPHENOL
10UJ 2-CHLORONAPHTHALENE
50UJ 2-NITROANILINE
10UJ DIMETHYL PHTHALATE
10UJ ACENAPHTHYLENE
10UJ 2,6-DINITROTOLUENE

50UJ 3-NITROANILINE
50UJ ACENAPHTHENE
50UJ 2,4-DINITROPHENOL
50UJ 4-NITROPHENOL
10UJ DIBENZOFURAN
10UJ 2,4-DINITROTOLUENE
10UJ DIETHYL PHTHALATE
10UJ 4-BROMOPHENYL PHENYL ETHER
10UJ FLUORENE
50UJ 4-NITROANILINE
50UJ 2-METHYL-4,6-DINITROPHENOL
10UJ N-NITROSODIOPHENYLAMINE/DIPHENYLAMINE
10UJ 4-BROMOPHENYL PHENYL ETHER
10UJ HEXACHLOROBENZENE (HCB)
50UJ PENTACHLOROPHENOL
10UJ PHENANTHRENE
10UJ ANTHRACENE
10UJ CARBAPOLE
10UJ DI-E BUTYL PHTHALATE
10UJ FLUORANTHENE
10UJ PYRENE
10UJ BENZYL BUTYL PHTHALATE
10UJ 3,3'-DICHLOROBENZIDINE
10UJ BENZO(A)ANTHRACENE
10UJ CHRYSENE
10UJ BIS(2-ETHYLHEXYL) PHTHALATE
10UJ DI-N-OCTYL PHTHALATE
10UJ BENZO(B AND/OR K)FLUORANTHENE
10UJ BENZO(A)PYRENE
10UJ 1,4-MONO-(1,4-CD) PYRENE
10UJ D(BENZO(A,H))ANTHRACENE
10UJ BENZO(GHI)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26, 1984)

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-FACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*R-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 1573

SAS NO.:

D. NO.: AAB5

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OU PHENOL
1OU BIS(2-CHLOROETHYL) ETHER
1OU 2-CHLOROPHENOL
1OU 1,3-DICHLOROBENZENE
1OU 1,4-DICHLOROBENZENE
1OU 1,2-DICHLOROBENZENE
1J 2-METHYLPHENOL
1OU 2,2'-CHLOROTISOPROPYLETHER
1OU (3-AND/OR 4-)METHYLPHENOL
1OU N-NITROSODI-N-PROPYLAMINE
1OU HEXACHLOROETHANE
1OU MERCAPTOBUTANE
1OU TSOPHORONE
1OU 2-NITROPHENOL
1OU 2,4-DIMETHYLPHENOL
1OU BIS(2-CHLOROETHOXY) METHANE
1OU 2,4-DICHLOROPHENOL
1OU 1,2,4-TRICHLOROBENZENE
1OU NAPHTHALENE
1OU 4-CHLOROANILINE
1OU HEXACHLOROBUTADIENE
1OU 2-CHLORO-3-METHYLCHEMOL
1OU 2,4,5-TRICHLOROPHENOL
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)
1OU 2,4,6-TRICHLOROPHENOL
1OU 2,4,5-TRICHLOROPHENOL
1OU 2-CHLORONAPHTHALENE
1OU 2-NITROANILINE
1OU DIMETHYL PHTHALATE
1OU ACENAPHTHYLENE
1OU 2,6-DINITROTOLUENE

1OU 3-NITROANILINE
1OU ACENAPHTHENE
1OU 2,4-DINITROPHENOL
1OU 4-NITROPHENOL
1OU DIBENZOFURAN
1OU 2,4-DINITROTOLUENE
1OU DIETHYL PHTHALATE
1OU 4-CHLOROPHENYL PHENYL ETHER
1OU FLUORENE
1OU 4-NITROANILINE
1OU 4-NITROBENZYL 4,6-DINITROPHENOL
1OU N,N-TETRA(2-PHENYLAMINE)/DIPHENYLAMINE
1OU 4-BROMOPHENYL PHENYL ETHER
1OU HEXACHLOROBENZENE (HCB)
1OU PENTACHLOROPHENOL
1OU PHENANTHRENE
1OU ANTHRACENE
1OU CARBAZOLE
1OU DI-N-BUTYLPHTHALATE
1OU FLUORANTHENE
1OU 4-NITROBENZYL BUTYL PHTHALATE
1OU 3,3'-DICHLOROBENZIDINE
1OU BENZO(A)ANTHRACENE
1OU CHRYSENE
1OU BIS(2-ETHYLHEXYL) PHTHALATE
1OU DI-N-OCTYLPHTHALATE
1OU BENZO(B AND/OR K)FLUORANTHENE
1OU BENZO-A-PYRENE
1OU INDENO (1,2,3-C) PYRENE
1OU DIBENZO(A,H)ANTHRACENE
1OU BENZO(GH)PYRENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: S4442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/20/91 1330 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AAB6

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OU	PHENOL	5OU	3-NITROANILINE
1OU	BIS(2-CHLOROETHYL) ETHER	1OU	ACENAPHTHENE
1OU	2-CARBOXYPHENOL	5OU	2,6-DINITROPHENOL
1OU	1,3-DICHLOROBENZENE	5OU	4-NITROPHENOL
1OU	1,4-DICHLOROBENZENE	1OU	DI BENZO FURAN
1OU	2,2-DICHLOROBENZENE	1OU	2,4-DIMIROTOLUENE
1OU	2-METHYLPHENOL	1OU	DIETHYL PHTHALATE
1OU	2,2'-CHLORODISOPROPYLETHER	1OU	4-CHLOROPHENYL PHENYL ETHER
1OU	(3-AND/OR 4-)METHYLPHENOL	1OU	FLUORENE
1OU	N-NITROSODI-N-PROPYLAMINE	5OU	4-NITROANILINE
1OU	HEXA CHLOROETHANE	5OU	2-METHYL-4,6-DINITROPHENOL
1OU	NITROBENZENE	1OU	N-NITROSO(DIPHENYLAMINE)DIPHENYLAMINE
1OU	ISOPHORONE	1OU	4-NITROBENZYL PHENYL ETHER
1OU	2-NITROPHENOL	1OU	HEXA CHLOROBENZENE (HCB)
1OU	4-NITROBENZYLPHENOL	5OU	PENTACHLOROPHENOL
1OU	BIS(2-CHLOROETHOXY) METHANE	1OU	PHENANTHRENE
1OU	1,2,4-TRICHLOROBENZENE	1OU	ANTHRACENE
1OU	2,4-OTICHLOROPHENOL	1OU	CARBAZOLE
1OU	NAPHTHALENE	1OU	DI-N-BUTYL PHTHALATE
1OU	4-CHLORDANILINE	1OU	FLUORANTHENE
1OU	HEXA CHLOROBUTADIENE	1OU	PYRENE
1OU	4-CHLORO-3-METHYLPHENOL	1OU	BENZYL BUTYL PHTHALATE
1OU	2-METHYLNAPHTHALENE	1OU	4-CHLOROBENZIDINE
1OU	HEXA CHLOROBUTADIENE (HCCP)	1OU	BENZO(A)ANTHRACENE
1OU	2,4,5-TRICHLOROPHENOL	1OU	CHRYSENE
5OU	2,6-TRICHLOROPHENOL	1OU	BIS(2-ETHYLHEXYL) PHTHALATE
1OU	2-CHLORONAPHTHALENE	1OU	DI-N-OCTYL PHTHALATE
5OU	2-NITROANILINE	1OU	BENZO(B AND OR K) FLUORANTHENE
1OU	DIMETHYL PHTHALATE	1OU	BENZO-A-PYRENE
1OU	ACENAPHTHYLENE	1OU	INDENO (1,2,3-CD) PYRENE
1OU	2,6-DIMIROTOLUENE	1OU	DIBENZO(A,H)ANTHRACENE

1OU BENZO(G,H)PERYLENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

O. NO.: AA62

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U	PHENOL	50U	3-NITROANILINE
10U	BIS(2-CHLOROETHYL) ETHER	10U	ACENAPHTHENE
10U	2-CHLOROPHENOL	50U	2,4-DINITROPHENOL
10U	1,3-DICHLOROBENZENE	50U	4-NITROPHENOL
10U	1,4-DICHLOROBENZENE	10U	1,3-BENZOFURAN
10U	1,2-DICHLOROBENZENE	10U	2,4-DINITROTOLUENE
10U	2-ECHLOROPHENOL	10U	4-METHYLPHthalate
10U	2,2'-CHLORODISOPROPYLETHER	10U	4-CARBOPHENYL PHENYL ETHER
10U	(3-AND/OR 4-METHYLPHENOL	10U	FLUORENE
10U	N-NITROSODI-N-PROPYLAMINE	50U	4-MITROANILINE
10U	HEXACHLOROBUTANE	10U	2-METHYL-4,6-DINITROPHENOL
10U	NITROBENZENE	10U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	ISOPIPHORENE	10U	4-BROMOPHENYL PHENYL ETHER
10U	2-NITROPHENOL	10U	HEXACHLOROBENZENE (HCB)
10U	2,4-DIMETHYLPHENOL	50U	PENTACHLOROPHENOL
10U	BIS(2-CHLOROETHoxy) METHANE	10U	PHENANTHRENE
10U	2,4-DICHLOROPHENOL	10U	ANTHRACENE
10U	1,3-DICHLOROBENZENE	10U	CARBONYL
10U	NAPHTHALENE	10U	DIBENZ(B,F)PHthalate
10U	4-CHLORANILINE	10U	FLUORANTHENE
10U	HEXACHLOROBUTADIENE	10U	PYRENE
10U	4-CHLORO-3-METHYLPHENOL	10U	BENZYL BUTYL PHthalate
10U	2-METHYLNAPHTHALENE	10U	3,3'-DICHLOROBENZIDINE
10U	HEXACHLOROCYCLOCOPENTADIENE (HCCP)	10U	BENZO(A)ANTHRACENE
10U	2,4,6-TRICHLOROPHENOL	10UJ	CHRYSENE
10U	2,4,5-TRICHLOROPHENOL	10U	BIS(2-ETHYLHEXYL) PHthalate
10U	2-CHLORONAPHTHALENE	10U	DI-NOCTYLPHthalate
50U	2,4,4,4-TETRA	10U	BENZO(A)ANTHRACENE
10U	DIMETHYL-PHTHALATE	10U	BENZO(A)PYRENE
10U	ACENAPHTHYLENE	10U	INDENO (1,2,3-CD) PYRENE
10U	2,6-DINITROTOLUENE	10U	DIBENZ(A,H)ANTHRACENE
		10U	BENZO(B,I)PERYLENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*M-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO: 91-266	*** SAMPLE NO: S4451	*** SAMPLE TYPE: GROUNDWA	*** PROG ELEM: NSF	*** COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
*** STATION ID: MW-02			COLLECTION START: 01/30/91 1610	STOP: 00/00/00
*** CASE NO.: 16773	SAS NO.:	D. NO.: AA75		
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS	
10U CHLOROMETHANE		10U 1,2-DICHLOROPROPANE		
10U BROMOMETHANE		10U CIS-1,3-DICHLOROPROPENE		
10U VINYL CHLORIDE		10U TRICHLOROETHENE (TRICHLOROETHYLENE)		
10U CHLOROETHANE		10U DIBROMOCHLOROMETHANE		
10U METHYLENE CHLORIDE		10U 1,1,2-TRICHLOROETHANE		
20U ACETONE		10U BENZENE		
10U CARBON DISULFIDE		10U TRANS-1,3-DICHLOROPROPENE		
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)		10U BROMOFORM		
10U 1,1-DICHLOROETHANE		10U METHYL ISOBUTYL KETONE		
10U 1,2-DICHLOROETHENE (TOTAL)		10U METHYL BUTYL KETONE		
10U CHLOROFORM		10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)		
10U 1,2-DICHLOROETHANE		10U 1,1,2,2-TETRACHLOROETHANE		
10U METHYL ISOBUTYL KETONE		10U CYCLOPENTENE		
10U 1,1,2-TRICHLOROETHANE		10U CYCLOPENTENES		
10U CARBON TETRACHLORIDE		10U ETHYL BENZENE		
10U BROMODICHLOROMETHANE		10U STYRENE		
		10U TOTAL XYLENES		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ** STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
 *** CASE NO.: 15773 SAS NO.: O. NO.: AA57
 UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	26	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	1,1,2-TRICHLOROETHANE
10U	METHYLENE CHLORIDE	10U	BENZENE
10U	ACETONE	10U	TRANS-1,3-DICHLOROPROPENE
10U	CARBON DISULFIDE	10U	BROMOFORM
10U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U	METHYL ISOBUTYL KETONE
10U	1,1-DICHLOROETHANE	10U	METHYL BUTYL KETONE
1U	1,2-DICHLOROETHENE (TOTAL)	10U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U	CHLOROFOR	10U	1,1,2-TETRACHLOROETHANE
10U	1,2-DICHLOROETHANE	10U	TOLUENE
10U	METHYL ETHYL KETONE	10U	CHLOROBENZENE
10U	1,1,1-TRICHLOROETHANE	10U	ETHYL BENZENE
10U	CARBON TETRACHLORIDE	10U	STYRENE
10U	BROMODICHLOROMETHANE	10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV FSD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54436 SAMPLE TYPE: SURFACECA PROG ELEM: HSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SM-05 COLLECTION START: 01/29/91 STOP: 00/00/00

** CASE NO : 15773

FILE NO.

10 - 1150

REF ID: A65778
HG/1 ANALYTICAL RESULTS

ANALYTICAL RESULTS

1OU	PHENOL	50U	3-NITROANILINE
1OU	BIS(2-CHLOROETHYL) ETHER	1OU	ACENAPHTHENE
1OU	2-CHLOROPHENOL	50U	2,4-DINITROPHENOL
1OU	1,3-DICHLOROBENZENE	50U	4-NITROPHENOL
1OU	1,4-DICHLOROBENZENE	1OU	DIBUTYL PHthalate
1OU	2,2-DICHLOROBENZENE	1OU	4-DINITROTOLUENE
1OU	2-METHYLPHENOL	1OU	DIETHYL PHthalate
1OU	2,2'-CHLORODISOPROPYLETHER	1OU	4-CHLOROPHENYL PHENYL ETHER
1OU	(3-AND/OR 4-)METHYLPHENOL	1OU	FLUORENE
1OU	N-NITROSO(1-M-PROPYLAMINE	50U	4-NITROANILINE
1OU	HEXACHLOROETHANE	50U	2-METHYL-4,6-DINITROPHENOL
1OU	NITROBENZENE	1OU	N-NITROSOCPHENYLAMINE/DIPHENYLAMINE
1OU	ISOPHORONE	1OU	4-BROMOPHENYL PHENYL ETHER
1OU	2-NITROPHENOL	1OU	HEXACHLOROBENZENE (HCB)
1OU	2,4-DIMETHYLPHENOL	50U	PENTACHLOROPHENOL
1OU	BIS(2-CHLOROETHYL) METHANE	1OU	PHENYLPHENENE
1OU	2,4-DICHLOROPHENOL	1OU	PHENYLPHENYL
1OU	1,2,4-TRICHLOROBENZENE	1OU	CARBAZOLE
1OU	NAPHTHALENE	1OU	D1-BUTYLPHthalate
1OU	4-CHLOROANILINE	1OU	FLUORANTHENE
1OU	HEXAChLOROBUTADIENE	1OU	PYRENE
1OU	4-CHLORO-3-METHYLPHENOL	1OU	BENZYL BUTYL PHthalate
1OU	2-METHYLNAPHTHALENE	1OU	3,3'-DICHLOROBENDIENE
1OU	HEXAChLOROCYCLOPENTADIENE (HCCP)	1OU	BENZO(A)ANTHRACENE
50U	2,4,6-TRICHLOROPHENOL	1OUJ	CHRYSENE
1OU	2,4,4'-TRICHLOROPHENOL	1OU	BIS(2-ETHYLHEXYL) PHthalate
1OU	2,4,4'-MORPHYLPHALENE	1OU	DI(2-ETHYLHEXYL) PHthalate
1OU	2,4-NITROANILINE	1OU	BENZO(B)FLUORENE/K1FLUORANTHENE
1OU	DIMEThYL PHthalate	1OU	BENZO-A-PYRENE
1OU	ACENAPHTHYLENE	1OU	INDENO (1,2,3-CD) PYRENE
1OU	2,6-DINITROTOLUENE	1OU	O(BENZO(A)ANTHRACENE) PYRENE
		1OU	BENZOLGHI) PYRENE

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*FOOTNOTES--
A=ACTUAL VALUE
N=NOT ANALYZED
I=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN
U=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
R=Q-C INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 64444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LY CITY: DICKSON ST: TN
** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

** CASE NO.: 15773

SAS NO.:

D. NO.: AAB8

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OUJ PHENOL	SOUJ 3-NITROANILINE
1OUJ BIS(2-CHLOROETHYL) ETHER	1OUJ ACENAPHTHENE
1OUJ 2-CHLOROPHENOL	SOUJ 2,4-DINITROPHENOL
1OUJ 1,3-DICHLOROBENZENE	SOUJ 4-NITROPHENOL
1OUJ 1,4-DICHLOROBENZENE	1OUJ DIBENZOFURAN
1OUJ 1,2-DICHLOROBENZENE	1OUJ 2,4-DINITROTOLUENE
1OUJ 2-METHYLPHENOL	1OUJ DIBUTYL PHthalate
1OUJ 2-(2-CHLOROISOPROPYLETHER	1OUJ DICHLOROPHENYL PHENYL ETHER
1OUJ 3-ANISOLE	1OUJ FLUORENE
1OUJ N-NITROSODI-N-PROPYLAMINE	1OUJ 4-NITROANILINE
1OUJ HEXACHLOROETHANE	1OUJ 2-METHYL-4,6-DINITROPHENOL
1OUJ NITROBENZENE	1OUJ M-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1OUJ ISOPHORONE	1OUJ 4-BROMOPHENYL PHENYL ETHER
1OUJ 2-NITROPHENOL	1OUJ HEKACHLOROBENZENE (HCB)
1OUJ 2,4-DIMETHYLPHENOL	1OUJ PENTACHLOROPHENOL
1OUJ BIS(2-CHLOROETHOXY) METHANE	1OUJ PHENANTHRENE
1OUJ 2,4-DICHLOROPHENOL	1OUJ ANTHRACENE
1OUJ 1,2,4-TRICHLOROBENZENE	1OUJ CARBON
1OUJ NAPHTHALENE	1OUJ DI-N-BUTYLPHthalate
1OUJ 4-CHLORANILINE	1OUJ FLUORANTHENE
1OUJ HEXACHLOROBUTADIENE	1OUJ PYRENE
1OUJ 4-CHLORO-3-METHYLPHENOL	1OUJ BENZYL BUTYL PHthalate
1OUJ 2-METHYLNAPHTHALENE	1OUJ 3,3'-DICHLOROBENZIDINE
1OUJ HEXACHLOROCYCLOPENTADIENE (HCCP)	1OUJ BENZO(A)ANTHRACENE
1OUJ 2,4,8-TRICHLOROPHENOL	1OUJ CHRYSENE
5OUJ 2,4,5-TRICHLOROPHENOL	1OUJ BIS(2-ETHYLHEXYL) PHthalate
1OUJ 2-CHLORONAPHTHALENE	1OUJ DI-2-ETHYLPHthalate
5OUJ 2-NITROANILINE	1OUJ BENZO(B AND/OR K)FLUORANTHENE
1OUJ 2-NITROBENZYL PHthalate	1OUJ BENZO-A-PYRENE
1OUJ ACENAPHTHYLENE	1OUJ INDENO (1,2,3-CD) PYRENE
1OUJ 2,6-DINITROTOLUENE	1OUJ DIBENZO(A,H)ANTHRACENE
	1OUJ BENZO(GH)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *WI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN COLLECTION START: 01/28/91 1300 STOP: 00/00/00
STATION ID: TB-01W

CASE NO.: 15773

SAS NO.:

D. NO.: A450

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10U PHENOL	50U 3-NITROANILINE
10U BIS(2-CHLOROETHYL) ETHER	50U ACENAPHTHENE
10U 2-CHLOROPHENOL	50U 2,4-DINITROTOLUENE
10U 1,3-DICHLOROBENZENE	50U 4-NITROBENZYLALCOHOL
10U 1,4-DICHLOROBENZENE	10U DIBENZOFLUOREN
10U 1,2-DICHLOROBENZENE	10U 2,4-DINITROTOLUENE
10U 2-METHYLPHENOL	10U DIETHYL PHTHALATE
10U 2,2'-CHLOROISOPROPYLETHER	10U 4-CHLOROPHENYL PHENYL ETHER
10U (3-AND/OR 4-METHYLPHENOL	10U FLUORENE
10U N-NITROSODI-N-PROPYLAMINE	50U 4-NITROANILINE
10U HEXACHLOROETHANE	50U 2-METHYL-4,6-DINITROPHENOL
10U NITROBENZENE	10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U 1,5-PHENOL	10U 4-BROMOPHENYL PHENYL ETHER
10U 2-MITROPHENOL	10U HEPTACHLOROPHENOL
10U 2,4-DIMETHYLPHENOL	50U PHENANTHRENE
10U BIS(2-CHLOROETHOXY) METHANE	10U ANTHRACENE
10U 2,4-DICHLOROPHENOL	10U CARBAZOLE
10U 1,2,4-TRICHLOROBENZENE	10U DI-N-BUTYLPHthalate
10U NAPHTHALENE	10U FLUORANTHENE
10U 4-CHLORANILINE	10U PYRENE
10U HEXACHLOROBUTADIENE	10U BENZYL BUTYL PHTHALATE
10U 4-CHLORO-3-METHYLPHENOL	10U 3,3'-DICHLOROBENZIDINE
10U 2,4,5-TRICHLOROPHENOL	10U 4-FLUOROBENZENE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)	10U CHRYSENE
10U 2,4,6-TRICHLOROPHENOL	10U BIS(2-ETHYLHEXYL) PHTHALATE
50U 2,4,5-TRICHLOROPHENOL	10U DI-N-OCTYLPHthalate
10U 2-CHLOROMPHTHALENE	10U BENZO(B AND/OR K)FLUORANTHENE
50U 2-NITROANILINE	10U BENZO-A-PYRENE
10U DIIMETHYL PHTHALATE	10U INDENO (1,2,3-CD) PYRENE
10U ACENAPHTHYLENE	10U DIBENZO(A,H)ANTHRACENE
10U 2,6-DINITROTOLUENE	10U BENZO(GH)PERYLENE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO.: 91-286	SAMPLE NO.: 54450	SAMPLE TYPE: GROUNDWATER	PROD ELEM: NSF	COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: MW-01			COLLECTION START: 01/30/91 1545	STOP: 00/00/00
CASE NO.: 15773	SAS NO.:	O. NO.: AA74		
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS	
10U CHLOROMETHANE	10U 1,2-DICHLOROPROpane	10U C15-1,3-DICHLOROPROPENE		
10U BROMOMETHANE	10U TRICHLOROETHANE (TRICHLOROETHYLENE)	10U DIBROMOCHLOROMETHANE		
10U VINYL CHLORIDE	10U 1,1,2-TRICHLOROETHANE	10U BENZENE		
10U CHLOROETHANE	10U TRANS-1,3-DICHLOROPROPENE	10U BROMOFORM		
10U METHYLENE CHLORIDE	10U METHYL ISOBUTYL KETONE	10U METHYL BUTYL KETONE		
10U ACETONE	10U TETRACHLOROETHANE (TETRACHLOROETHYLENE)	10U 1,1,2,2-TETRACHLOROETHANE		
60 CARBON DISULFIDE	10U CHLOROBENZENE	10U TOLUENE		
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U ETHYL BENZENE	10U STYRENE		
10U 1,1-DICHLOROETHANE	10U TOTAL XYLenes			
10U 1,1,2-DICHLOROETHENE (TOTAL)				
10U CHLOROFORM				
10U 1,2-DICHLOROETHANE				
10U METHYL ETHYL KETONE				
10U 1,1,1-TRICHLOROETHANE				
10U CARBON TETRACHLORIDE				
10U BROMODICHLOROMETHANE				

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-286 SAMPLE NO. S4434 SAMPLE TYPE: SURFACEWA
 *** SOURCE: DICKSON CO. LF PROJ. ELEM: NSF COLLECTED BY: G BEINFIELD
 *** STATION ID: SW-01 CITY: DICKSON ST: TN
 *** COLLECTION START: 01/29/91 1010 STOP: 00/00/00

*** CASE NO.: 15773

SAS NO.:

D. NO.: A458

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

1OU	CHLOROMETHANE	1OU	1,2-DICHLOROPROPANE
1OU	BROMOMETHANE	1OU	CIS-1,3-DICHLOROPROPENE
1OU	VINYL CHLORIDE	1OU	TRICHLOROETHENE(TRICHLOROETHYLENE)
1OU	CHLOROETHANE	1OU	DIBROMOCHLOROMETHANE
2OU	METHYLENE CHLORIDE	1OU	1,1,2-TRICHLOROETHANE
1OU	ACETONE	1OU	BENZENE
1OU	CARBON DISULFIDE	1OU	TRANS-1,3-DICHLOROPROPENE
1OU	1,1-DICHLOROETHANE(1,1-DICHLOROETHYLENE)	1OU	BROMOFORM
1OU	1,1-DICHLOROETHANE	1OU	METHYL ISOBUTYL KETONE
1OU	1,2-DICHLOROETHANE (TOTAL)	1OU	METHYL BUTYL KETONE
1OU	CHLOROFORM	1OU	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
1OU	1,2-DICHLOROETHANE	1OU	1,1,2,2-TETRACHLOROETHANE
1OU	METHYL ETHYL KETONE	1OU	TOLUENE
1OU	1,1,1-TRICHLOROETHANE	1OU	CHLOROBENZENE
1OU	CARBON TETRACHLORIDE	1OU	ETHYL BENZENE
1OU	BROMODICHLOROMETHANE	1OU	STYRENE
			TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN COLLECTION START: 01/20/91 1215 STOP: 00/00/00
STATION ID: SM-02
CASE NO.: 15773 SAS NO.: D. NO.: AA65
UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

1OU	CHLOROMETHANE	1OU	1,2-DICHLOROPROPANE
1OU	BROMOMETHANE	1OU	CIS-1,3-DICHLOROPROPENE
1OU	VINYL CHLORIDE	1OU	TRICHLOROETHENE (TRICHLOROETHYLENE)
1OU	CHLOROETHANE	1OU	DIBROMOCHLOROMETHANE
1OU	METHYLENE CHLORIDE	1OU	1,1,2-TRICHLOROETHANE
8OU	ACETONE	1OU	BENZENE
1OU	CARBON DISULFIDE	1OU	TRANS-1,3-DICHLOROPROPENE
1OU	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	1OU	BROMOFORM
1OU	1,1-DICHLOROETHANE	1J	METHYL ISOBUTYL KETONE
1OU	1,2-DICHLOROETHENE (TOTAL)	1OU	1,1,2,2-TETRACHLOROETHANE
1OU	CHLOROFORM	1OU	TOLUENE
1OU	1,2-DICHLOROETHANE	1OU	CHLORDBENZENE
45	METHYL ETHYL KETONE	1OU	ETHYL BENZENE
1OU	1,1,1-TRICHLOROETHANE	1J	STYRENE
1OU	CARBON TETRACHLORIDE	1J	TOTAL XYLENES
1OU	BROMODICHLOROMETHANE		

REMARKS

REMARKS

FOOTNOTES

*-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*-K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *I-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*-U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*-R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: S4442 SAMPLE TYPE: SURFACEMIN PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA66

UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE **10U 1,2-DICHLOROPROPANE**

100% DIISOBUTYL CHLOROETHYLENE
3-38% CHLOROETHANE
100% DIISOBUTYL CHLOROETHYLENE /
CHLOROETHANE

100 METHYLENE CHLORIDE
100 ACETONE
100 PROPYLENE CHLORIDE

10U CARBON DISULFIDE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U TRANS-1,3-DICHLOROPROPENE
10U BROMOFORM

100 1-1-DICHLOROETHANE 100 ME THYL ISOBUTYL KETONE
100 1,2-DICHLOROETHENE (TOTAL) 100 ME THYL BUTYL KETONE

100U CHLOROFORM
100U 1,2-DICHLOROETHANE
100U TE TRACHLOROETHENE (TE TRACHLOROETHYLENE)
100U 1,1,2,2-TETRACHLOROETHANE

100U MÉTHYL ETHYL KETONE
100U 1,1,1-TRICHLOROPROPANE
100U TOLUENE
100U CHLOROBENZENE

100 1-TRICHLOROETHENE
100 CARBON TETRACHLORIDE
100 CHLOROETHANE
100 ETHYL BENZENE
100 ETHYLENE

100 BROMODICHLOROMETHANE 100 STYRENE
100 TOTAL XYLENES

• • • REMARKS • • •

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE	PROG. ELEM.	COLLECTED BY
91-268	54438	SURFACE	HSF	G. BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: SW-04			COLLECTION START: 01/29/91	1140 STOP: 00/00/00
CASE NO.: 15773	SAS NO.:		D. NO.:	A462
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS	
10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE			
10U BROMOMETHANE	10U 1,1,2-DICHLOROPROPENE			
10U VINYL CHLORIDE	10U TRICHLOROETHYLENE (TRICHLOROETHYLENE)			
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE			
20U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE			
10U ACETONE	10U BENZENE			
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE			
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U BROMOFORM			
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE			
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL BUTYL KETONE			
10U CHLOROFORM	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)			
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE			
10U METHYL ISOBUTYL KETONE	10U TOLUENE			
10U 1,1,2-TRICHLOROETHANE	10U CHLOROBENZENE			
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE			
10U BROMODICHLOROMETHANE	10U STYRENE			
	10U TOTAL XYLENES			

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
*** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA68
UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

1OU	CHLOROMETHANE	1OU	1,2-DICHLOROPROpane
1OU	BROMOMETHANE	1OU	C15-1,3-DICHLOROPROPENE
1OU	VINYL CHLORIDE	1OU	TRICHLOROETHENE(TRICHLOROETHYLENE)
1OU	CHLOROETHANE	1OU	DIBROMOCHLOROMETHANE
1OU	METHYLENE CHLORIDE	1OU	1,1,2-TRICHLOROETHANE
1OU	ACETONE	1OU	BENZENE
1OU	CARBON DISULFIDE	1OU	1,1,3,3-DICHLOROPROPENE
1OU	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	1OU	BROMOFORM
1OU	1,1-DICHLOROETHANE	1OU	METHYL ISOBUTYL KETONE
1OU	1,2-DICHLOROETHENE (TOTAL)	1OU	METHYL BUTYL KETONE
1OU	CHLOROFORM	1OU	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
1OU	1,2-DICHLOROETHANE	1OU	1,1,2,2-TETRACHLOROETHANE
1OU	METHYL ETHYL KETONE	1OU	TOLUENE
1OU	1,1,1-TRICHLOROETHANE	1OU	CHLOROBENZENE
1OU	CARBON TETRACHLORIDE	1OU	ETHYL BENZENE
1OU	BROMOCHLOROMETHANE	1OU	STYRENE
		1OU	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE	PROG ELEM.	COLLECTED BY	CITY	ST:	COLLECTION START	STOP
91-268	54436	surfacewa	NSF	G.BENFIELD	DICKSON	TN	01/29/91 1110	00/00/00
SOURCE: DICKSON CO. LF								
STATION ID: SW-05								
CASE NO.: 15773	SAS NO.:		D. NO.:	AAG0				
UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS					
10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE	10U 015-1,3-DICHLOROPROPENE						
10U BROMOMETHANE	10U TRICHLOROETHANE (TRICHLOROETHYLENE)	10U DIBROMOCHLOROMETHANE						
10U VINYL CHLORIDE	10U 1,1,2-TRICHLOROETHANE	10U BENZENE						
10U CHLOROETHANE	10U TRANS-1,3-DICHLOROPROPENE	10U BROMOFORM						
20U METHYLENE CHLORIDE	10U METHYL ISOBUTYL KETONE	10U METHYL BUTYL KETONE						
10U ACETONE	10U TETRACHLOROETHANE (TETRACHLOROETHYLENE)	10U 1,1,2,2-TETRACHLOROETHANE						
10U CARBON DISULFIDE	10U TOLUENE	10U CHLOROBENZENE						
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U ETHYL BENZENE	10U STYRENE						
10U 1,1-DICHLOROETHANE	10U TOTAL XYLENES							
10U 1,2-DICHLOROETHENE (TOTAL)								
10U CHLOROFORM								
10U 1,2-DICHLOROETHANE								
10U METHYL ETHYL KETONE								
10U 1,1,1-TRICHLOROETHANE								
10U CARBON TETRACHLORIDE								
10U BROMODICHLOROMETHANE								

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/81

PURGEABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE	PROG FLEM:	COLLECTED BY:	STATION ID:	COLLECTION START:	STOP:
91-268	54456	SURFACEWA	NSF	G.BEINFIELD		01/28/91 1300	00/00/00
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN			
STATION ID: TB-01W							
CASE NO.: 15773	SAS NO.:		D. NO.:	AASO			
UG/L	ANALYTICAL RESULTS		UG/L	ANALYTICAL RESULTS			
1OU CHLOROMETHANE			1OU 1,2-DICHLOROPROPANE				
1OU BROMOMETHANE			1OU 1,1,2,3-DICHLOROPROPENE				
1OU VINYL CHLORIDE			1OU TRICHLOROETHANE (TRICHLOROETHYLENE)				
1OU CHLOROETHANE			1OU DIBROMOCHLOROMETHANE				
2OU METHYLENE CHLORIDE			1OU 1,1,2-TRICHLOROETHANE				
2OU ACETONE			1OU BENZENE				
1OU CARBON DISULFIDE			1OU TRANS-1,3-DICHLOROPROPENE				
1OU 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)			1OU BROMOFORM				
1OU 1,1-DICHLOROETHANE			1OU METHYL ISOBUTYL KETONE				
1OU 1,2-DICHLOROETHENE (TOTAL)			1OU METHYL BUTYL KETONE				
1OU CHLOROFORM			1OU TETRACHLOROETHENE (TETRACHLOROETHYLENE)				
1OU 1,1,1,2-TETRACHLOROETHANE			1OU 1,1,1,2-TETRACHLOROETHANE				
1OU METHYL ETHYL KETONE			1OU TOLUENE				
1OU 1,1,1-TRICHLOROETHANE			1OU CHLOROBENZENE				
1OU CARBON TETRACHLORIDE			1OU ETHYL BENZENE				
1OU BROMODICHLOROMETHANE			1OU STYRENE				
			1OU TOTAL XYLENES				

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT ID: 91-200	SAMPLE NO: 54430	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
*** STATION ID: LS-01			COLLECTION START: 01/28/91	1600 STOP: 00/00/00
*** CASE NUMBER: 15773		SAS NUMBER:	D. NUMBER: AA54	
*** UG/KG	ANALYTICAL RESULTS		UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC		24U	METHOXYPHOR
2.4U	BETA-BHC		4.6U	ENDRIN KETONE
2.4U	DELTA-BHC		4.6U	ENDRIN ALDEHYDE
2.4U	GAMMA-BHC (LINDANE)		—	CHLORDANE (TECH. MIXTURE) /1
2.4U	HEPTACHLOR		5.4	GAMMA-CHLORDANE /2
2.4U	ALDRIN		2.0J	ALPHA-CHLORDANE /2
2.4U	HEPTACHLOR EPOXIDE		240U	TOXAPHENE
2.4U	ENDOSULFAN I (ALPHA)		46U	PCB-1016 (AROCOLOR 1016)
2.4U	DIELDRIN		46U	PCB-1221 (AROCOLOR 1221)
2.4J	4,4'-DDT (P,P'-DDT)		93U	PCB-1232 (AROCOLOR 1232)
4.6U	ENDRIN		46U	PCB-1242 (AROCOLOR 1242)
4.6U	ENDOSULFAN II (BETA)		46U	PCB-1246 (AROCOLOR 1246)
.14	4,4'-DDD (P,P'-DDD)		48U	PCB-1254 (AROCOLOR 1254)
4.6U	ENDOSULFAN SULFATE		48U	PCB-1260 (AROCOLOR 1260)
4.6U	4,4'-DDT (P,P'-DDT)		28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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 *C-COMFIRMED BY GCMS

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54431 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: LS-01 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
 CASE NUMBER: 19773 SAS NUMBER: D. NUMBER: AASS

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.20	ALPHA-BHC	220	METHOXYCHLOR
2.20	BETA-BHC	4.40	ENDRIN KETONE
2.20	DELTA-BHC	4.40	ENDRIN ALDEHYDE
2.20	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
2.20	HEPTACHLOR	0.30	GAMMA-CHLORDANE /2
2.20	ALDRIN	2.20	ALPHA-CHLORDANE /2
2.20	HEPTACHLOR EPOXIDE	2200	TOXAPHENE
2.20	ENDOSULFAN I (ALPHA)	440	PCB-1016 (AROCOLOR 1016)
4.40	DIELDRIN	440	PCB-1221 (AROCOLOR 1221)
4.40	4,4'-ODE (P,P'-ODE)	880	PCB-1232 (AROCOLOR 1232)
4.40	ENDRIN	440	PCB-1242 (AROCOLOR 1242)
4.40	ENDOSULFAN II (BETA)	440	PCB-1248 (AROCOLOR 1248)
4.40	4,4'-DDD (P,P'-DDD)	440	PCB-1254 (AROCOLOR 1254)
4.40	ENDOSULFAN SULFATE	440	PCB-1260 (AROCOLOR 1260)
4.40	4,4'-DDT (P,P'-DDT)	26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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 *C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AA56

UG/KG ANALYTICAL RESULTS

2.1U ALPHA-BHC
2.1U BETA-BHC
2.1U DELTA-BHC
2.1U GAMMA-BHC (LINDANE)
2.1U HEPTACHLOR
2.1U ALDRIN
2.1U HEPTACHLOR EPOXIDE
2.1U ENDOSULFAN I (ALPHA)
4.1U Dieldrin
4.1U 4,4'-DDE (P,P'-DDE)
4.1U DDD
4.1U ENDOSULFAN II (BETA)
4.1U 4,4'-DDD (P,P'-DDD)
4.1U ENDOSULFAN SULFATE
4.1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

2.1U METHOXYCHLOR
4.1U ENDRIN KETONE
4.1U ENDRIN ALDEHYDE
— CHLORDANE (TECH. MIXTURE) /1
2.1U GAMMA-CHLORDANE /2
2.1U ALPHA-CHLORDANE /2
210U TOXAPHENE
41U PCB-1016 (AROCOLOR 1016)
41U PCB-1221 (AROCOLOR 1221)
84U PCB-1232 (AROCOLOR 1232)
21U PCB-1242 (AROCOLOR 1242)
41U PCB-1246 (AROCOLOR 1246)
41U PCB-1254 (AROCOLOR 1254)
41U PCB-1260 (AROCOLOR 1260)
22 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 01-266 SAMPLE NO: 54420 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1630 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA53

UG/KG ANALYTICAL RESULTS

2.0U ALPHA-BHC
2.0U BETA-BHC
2.0U DELTA-BHC
2.0U GAMMA-BHC (LINDANE)
2.0U HEPTACHLOR
2.0U ALDRIN
2.0U HEPTACHLOR EPOXIDE
2.0U ENDOSULFAN I (ALPHA)
4.0U DIELDRIN
4.0U 4,4'-DDE (P,P'-DDE)
4.0U ENDRIN
4.0U ENDOSULFAN II (BETA)
4.0U 4,4'-DDD (P,P'-DDD)
4.0U ENDOSULFAN SULFATE
4.0U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

20U METHOXYCHLOR
4.0U ENDRIN KETONE
4.0U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
2.0U GAMMA-CHLORDANE /2
2.0U ALPHA-CHLORDANE /2
200U TOKAPHENE
40U PCB-1016 (AROCOLOR 1016)
40U PCB-1221 (AROCOLOR 1221)
80U PCB-1232 (AROCOLOR 1232)
40U PCB-1246 (AROCOLOR 1246)
40U PCB-1254 (AROCOLOR 1254)
40U PCB-1260 (AROCOLOR 1260)
18 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-286	SAMPLE NO. 54447	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: SB-02			COLLECTION START: 01/30/91 1125	STOP: 00/00/00
CASE NUMBER: 15773		SAS NUMBER:	D. NUMBER: AA71	

UG/KG ANALYTICAL RESULTS

2.1U ALPHA-BHC
2.1U BETA-BHC
2.1U DELTA-BHC
2.1U GAMMA-BHC (LINDANE)
2.1U HEPTACHLOR
2.1U ALDRIN
2.1U HEPTACHLOR EPoxide
2.7U ENDOSULFAN I (ALPHA)
4.1U DDE (P,P'-DDE)
4.1U 4,4'-DDE (P,P'-DDE)
4.1U ENDRIN
4.1U ENDOSULFAN II (BETA)
4.1U 4,4'-DDD (P,P'-DDD)
4.1U ENDOSULFAN SULFATE
4.1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

21U METHOXYCHLOR
4.1U ENDRIN KETONE
4.1U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
2.1U GAMMA-CHLORDANE /2
2.1U ALPHA-CHLORDANE /2
21OU TOXAPHENE
41U PCB-1016 (AROCOLOR 1016)
41U PCB-1221 (AROCOLOR 1221)
83U PCB-1232 (AROCOLOR 1232)
41U PCB-1242 (AROCOLOR 1242)
41U PCB-1248 (AROCOLOR 1248)
41U PCB-1254 (AROCOLOR 1254)
41U PCB-1260 (AROCOLOR 1260)
21 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

UG/KG ANALYTICAL RESULTS

2.1U	ALPHA-BHC
2.1U	BETA-BHC
2.1U	DELTA-BHC
3.0U	GAMMA-BHC (LINDANE)
2.8	HEPTACHLOR
2.1U	ALDRIN
2.1U	HEPTACHLOR EPOXIDE
2.1U	ENDOSULFAN I (ALPHA)
4.1U	DIELDRIN
4.1U	4,4'-DDE (P,P'-DDE)
6.0U	ENDOSULFAN II (BETA)
4.1U	4,4'-DDD (P,P'-DDD)
4.1U	ENDOSULFAN SULFATE
4.1U	4,4'-DDT (P,P'-DDT)

ANALYTICAL RESULTS

21U	METHOXVCHLOR
4-1U	EMDINE - KETONE
4-1U	ENDRIN - ALDEHYDE
	CHLORDANE (TECH. MIXTURE) /1
70	GAMMA-CHLORDANE /2
96	ALPHA-CHLORDANE /2
210U	TOXAPHENE
41U	PCB-1016 (AROCLOR 1016)
41U	PCB-1221 (AROCLOR 1221)
82U	PCB-1232 (AROCLOR 1232)
41U	PCB-1248 (AROCLOR 1248)
41U	PCB-1254 (AROCLOR 1254)
41U	PCB-1260 (AROCLOR 1260)
20	PERCENT MOISTURE

•••FOOTNOTES•••

*FOOTNOTES**
 •A-AVERAGE VALUE •WA-NOT ANALYZED •NAJ-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 •X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 •U-MATERIAL WAS ANALYZED BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 •R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 •C-CONFIRMED BY GC/MS
 1. WHEN NO VALUE IS REPORTED, SEE CHLORADNE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

••• PROJECT NO: 91-268 SAMPLE NO: 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ••• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ••• STATION ID: SD-01 COLLECTION START: 01/29/91 TO STOP: 00/00/00
 ••• CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AAS9

••• * * * * * ANALYTICAL RESULTS * * * * *

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC	25U	METHOXYCHLOR
2.5U	BETA-BHC	4.9U	ENDRIN KETONE
2.5U	HEPTACHLOR	4.9U	ENDRIN ALDEHYDE
2.5U	GAMMA-BHC	--	CHLORDANE (TECH. MIXTURE) /1
2.5U	HEPTACHLOR (LINDANE)	2.5U	GAMMA-CHLORDANE /2
2.5U	ALDRIN	2.5U	ALPHA-CHLORDANE /2
2.5U	HEPTACHLOR EPOXIDE	250U	TOXAPHENE
2.5U	ENDOSULFAN I (ALPHA)	49U	PCB-1016 (AROCLOL 1016)
4.9U	DIELDRIN	49U	PCB-1221 (AROCLOL 1221)
4.9U	4,4'-DDD (P,P'-DDO)	49U	PCB-1232 (AROCLOL 1232)
4.9U	ENDRIN	49U	PCB-1242 (AROCLOL 1242)
4.9U	ENDOSULFAN II (BETA)	49U	PCB-1250 (AROCLOL 1250)
4.9U	4,4'-DDD (P,P'-DDD)	49U	PCB-1254 (AROCLOL 1254)
4.9U	ENDOSULFAN SULFATE	49U	PCB-1260 (AROCLOL 1260)
4.9U	4,4'-DDT (P,P'-DDT)	34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. S4440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AA64

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.5U	ALPHA-BHC	25U	METHOXYCHLOR
2.5U	BETA-BHC	4.9U	ENDRIM KETONE
2.5U	DELTA-BHC	4.9U	ENDRIM ALDEHYDE
O 424	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
2.5U	HEPTACHLOR	1.0J	GAMMA-CHLORDANE /2
2.5U	ALDRIN	0.28J	ALPHA-CHLORDANE /2
2.5U	HEPTACHLOR EPOXIDE	250U	TOXAPHENE
2.5U	ENDOSULFAN I (ALPHA)	49U	PCB-1016 (AROCOLOR 1016)
4.9U	DIELDRIN	49U	PCB-1221 (AROCOLOR 1221)
4.9U	4,4'-DDE (P,P'-DDE)	100U	PCB-1232 (AROCOLOR 1232)
4.9U	ENDOSULFAN II (BETA)	49U	PCB-1242 (AROCOLOR 1242)
4.9U	4,4'-DDD (P,P'-DDD)	49U	PCB-1248 (AROCOLOR 1248)
4.9U	ENDOSULFAN SULFATE	49U	PCB-1254 (AROCOLOR 1254)
4.9U	4,4'-DDT (P,P'-DDT)	49U	PCB-1260 (AROCOLOR 1260)
		34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54443 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AAG7

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/KG		UG/KG	
2.3U	ALPHA-BHC	23U	METHOXYCHLOR
2.4U	BETA-BHC	4.4U	ENDRIM ALDEHYDE
2.3U	DETA-BHC	4.4U	CHLORDANE (TECH. MIXTURE) /1
2.3U	GAMMA-BHC (LINDANE)	2.3U	GAMMA-CHLORDANE /2
2.3U	HEPTACHLOR	2.3U	ALPHA-CHLORDANE /2
2.3U	ALDRIN	230U	TOKAPHENE
2.3U	HEPTACHLOR EPOXIDE	44U	PCB-1016 (AROCOLOR 1016)
2.3U	ENDOSULFAN I (ALPHA)	44U	PCB-1221 (AROCOLOR 1221)
4.4U	DIELDRIN	90U	PCB-1232 (AROCOLOR 1232)
4.4U	4,4'-DDE (P,P'-DDE)	44U	PCB-1242 (AROCOLOR 1242)
4.4U	ENDRIN	44U	PCB-1248 (AROCOLOR 1248)
4.4U	ENDOSULFAN II (BETA)	44U	PCB-1254 (AROCOLOR 1254)
4.4U	4,4'-DDD (P,P'-DDD)	44U	PCB-1260 (AROCOLOR 1260)
4.4U	ENDOSULFAN SULFATE	27	PERCENT MOISTURE
4.4U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *N/A-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-286 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST. TN
** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
** CASE NUMBER: 15773 D. NUMBER: AA63

***** ANALYTICAL RESULTS

2.4U	ALPHA-BHC
2.4U	BETA-BHC
2.4U	DELTA-BHC
2.4U	GAMMA-BHC (LINDANE)
2.4U	HEPTACHLOR
2.4U	ALDRIN
2.4U	HEPTACHLOR EPOKIDE
2.4U	ENDOSULFAN I (ALPHA)
4.7U	DIELDRIN
4.7U	4,4'-DDE (P,P'-DDE)
4.7U	ENDRIN
4.7U	ENDOSULFAN II (BETA)
4.7U	4,4'-DDD (P,P'-DDD)
4.7U	ENDOSULFAN SULFATE
4.7U	4,4'-DDT (P,P'-DDT)

***** ANALYTICAL RESULTS

24U	METHOXYCHLOR
4.7U	ENDRIN KETONE
4.7U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.4U	GAMMA-CHLORDANE /2
2.4U	ALPHA-CHLORDANE /2
240U	TOXAPHENE
47U	PCB-1016 (AROCOLOR 1016)
47U	PCB-1221 (AROCOLOR 1221)
95U	PCB-1242 (AROCOLOR 1242)
4U	PCB-1242 (AROCOLOR 1242)
47U	PCB-1248 (AROCOLOR 1248)
47U	PCB-1254 (AROCOLOR 1254)
47U	PCB-1260 (AROCOLOR 1260)
30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-LIMIT VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO: 91-266 SAMPLE NO: 54437 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: IN
*** STATION ID: SE05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
*** CASE NUMBER: 15773 SAS NUMBER: AACI

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC	22U	METHOKYCHLOR
2.2U	BETA-BHC	4.3U	ENDRIN KETONE
2.2U	DELTA-BHC	4.3U	ENDRIN ALDEHYDE
2.2U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH MIXTURE) /1
2.2U	HEPTACHLOR	2.2U	GAMMA-CHLORDANE /2
2.2U	ALDACHLOR	2.2U	ALPHA-CHLORDANE /2
2.2U	HEPTACHLOR EPoxide	22DU	TOKAPHENE
2.2U	ENDOSULFAN I (ALPHA)	43U	PCB-1016 (AROCOLOR 1016)
4.3U	DIELDRIN	43U	PCB-1221 (AROCOLOR 1221)
4.3U	4,4'-DDT (P,P'-DDT)	88U	PCB-1232 (AROCOLOR 1232)
4.3U	ENDRIN	43U	PCB-1242 (AROCOLOR 1242)
4.3U	ENDOSULFAN II (BETA)	43U	PCB-1248 (AROCOLOR 1248)
4.3U	4,4'-DDD (P,P'-DDD)	43U	PCB-1254 (AROCOLOR 1254)
4.3U	ENDOSULFAN SULFATE	43U	PCB-1260 (AROCOLOR 1260)
5.0U	4,4'-DDT (P,P'-DDT)	24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *M-AVERAGE VALUE **A-NOT ANALYZED ***-INTERFERENCES ^J-ESTIMATED VALUE N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-COMFIRMED BY GCMS 1 WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-266	SAMPLE NO: 54445	SAMPLE TYPE: SOIL	PROD ELEM: NSF	COLLECTED BY: C.BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION NO: SE-08			COLLECTION START: 01/29/91	1445 STOP: 00/00/00
CASE NUMBER: 15773		SAS NUMBER:	D. NUMBER: A469	
UG/KG	ANALYTICAL RESULTS		UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC		22U	METHOXYCHLOR
2.2U	BETA-BHC		4.3U	ENDRIN KETONE
2.2U	DELTA-BHC		4.3U	ENDRIN ALDEHYDE
2.2U	GAMMA-BHC (LINDANE)		--	CHLORDANE (TECH. MIXTURE) /1
2.2U	HEPTACHLOR		3.1	GAMMA-CHLORDANE /2
0.3U	ALDRIN		2.2U	ALPHA-CHLORDANE /2
2.2U	HEPTACHLOR EPOXIDE		220U	TOXAPHENE
2.2U	ENDOSULFAN I (ALPHA)		43U	PCB-1016 (AROCLOL 1016)
4.3U	DIELDRIN		43U	PCB-1221 (AROCLOL 1221)
4.3U	4,4'-DDT (P,P'-DDT)		87U	PCB-1232 (AROCLOL 1232)
4.3U	ENDRIN		43U	PCB-1242 (AROCLOL 1242)
4.3U	ENDOSULFAN II (BETA)		43U	PCB-1248 (AROCLOL 1248)
4.3U	4,4'-DDD (P,P'-DDD)		77U	PCB-1254 (AROCLOL 1254)
12U	ENDOSULFAN SULFATE		74U	PCB-1260 (AROCLOL 1260)
4.3U	4,4'-DDT (P,P'-DDT)		25	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-DC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO: 91-288 SAMPLE NO: 54428 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: C BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID#: SS-1 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA52

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC	22U	METHOXYCHLOR
1.6J	BETA-BHC	4.3U	ENDRIN KETONE
2.2U	DELTA-BHC	4.3U	BUTYL CHLORIDE
2.2U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.2U	HEPTACHLOR	2.2U	GAMMA-CHLORDANE /2
2.2U	HEPTACHLOR EPXIDE	2.2U	ALPHA-CHLORDANE /2
2.2U	ENDOSULFAN I (ALPHA)	220U	TOXAPHENE
4.3U	DIELDRIN	43U	PCB-1016 (AROCLOL 1016)
4.3U	4,4'-DDE (P,P'-DDE)	43U	PCB-1221 (AROCLOL 1221)
4.3U	ENDRIN	87U	PCB-1232 (AROCLOL 1232)
4.3U	ENDOSULFAN II (BETA)	43U	PCB-1242 (AROCLOL 1242)
4.3U	4,4'-DDD (P,P'-DDD)	43U	PCB-1248 (AROCLOL 1248)
4.3U	ENDOSULFAN SULFATE	43U	PCB-1254 (AROCLOL 1254)
4.3U	4,4'-DDT (P,P'-DDT)	43U	PCB-1260 (AROCLOL 1260)
		24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROC ELEM: NSF COLLECTED BY: G REINFIELD
STATION ID: SS-02 CITY: DICKSON ST: TN
CASE NUMBER: 15773 SAS NUMBER: COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NUMBER: AA70

UG/KG ANALYTICAL RESULTS

2.1U ALPHA-BHC
2.1U BETA-BHC
2.1U DELTA-BHC
2.1U GAMMA-BHC (LINDANE)
2.1U HEPTACHLOR
2.1U ALDRIN
2.1U CHLOROPHOR EPoxide
2.1U ENDOSULFAN I (ALPHA)
4.1U DIELDRIN
4.1U 4,4'-DDE (P,P'-DDE)
4.1U ENDRIN
4.1U ENDOSULFAN II (BETA)
4.1U 4,4'-DDD (P,P'-DDD)
7.2U ENDOSULFAN SULFATE
4.1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

21U METHOXYCHLOR
4.1U ENDRIN KETONE
4.1U ENDOSULFAN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
0.60J GAMMA-CHLORDANE /2
0.37J ALPHA-CHLORDANE /2
210U TOXAPHENE
41U PCB-1016 (AROCOLOR 1016)
41U PCB-1221 (AROCOLOR 1221)
82U PCB-1232 (AROCOLOR 1232)
41U PCB-1242 (AROCOLOR 1242)
41U PCB-1248 (AROCOLOR 1248)
41U PCB-1254 (AROCOLOR 1254)
41U PCB-1260 (AROCOLOR 1260)
19 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT: 01-268 SAMPLE NO: 54446 SAMPLE TYPE: SOIL PROC. ELEM: NSP COLLECTED BY: C BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: 55-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
*** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA70

UG/KG ANALYTICAL RESULTS

2.1U ALPHA-BHC
2.1U BETA-BHC
2.1U DETA-BHC
2.1U HEPATACHLOR (LINDANE)
2.1U HEPTACHLOR
2.1U ALDRIN
2.1U HEPTACHLOR EPOXIDE
2.1U ENDOSULFAN I (ALPHA)
4.1U DIELDRIN
4.1U 4,4'-DDE (P,P'-DDE)
4.1U ENDRIN
4.1U ENDOSULFAN II (BETA)
4.1U 4,4'-DDD (P,P'-DDD)
7.2U ENDOSULFAN SULFATE
4.1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS
21U METHOXYCHLOR
4.1U ENDRIN KETONE
4.1U ENDRIN ALCHYDE
-- CHLORDANE (TECH. MIXTURE) /1
0.60J GAMMA-CHLORDANE /2
0.37J ALPHA-CHLORDANE /2
21OU TOXAPHENE
41U PCB-1016 (AROCOLOR 1016)
41U PCB-1221 (AROCOLOR 1221)
82U PCB-1232 (AROCOLOR 1232)
41U PCB-1242 (AROCOLOR 1242)
41U PCB-1248 (AROCOLOR 1248)
41U PCB-1254 (AROCOLOR 1254)
41U PCB-1260 (AROCOLOR 1260)
19 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS

1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF CITY: DICKSON ST. TN
STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NUMBER: 15773 SIS NUMBER: D. NUMBER: A72

UG/KG ANALYTICAL RESULTS

2.1UR ALPHA-BHC
2.1UR BETA-BHC
2.1UR DELTA-BHC
2.1UR GAMMA-BHC (LINDANE)
2.1UR HEPTACHLOR
2.1UR ALDRIN
2.1UR HEPTACHLOR EPOXIDE
2.1UR ENDOSULFAN I (ALPHA)
4.0UR DETEDRIN
110J 4,4'-DDT (P,P'-DDT)
4.0UR ENDRIN
4.0UR ENDOSULFAN II (BETA)
22J 4,4'-DDD (P,P'-DDD)
4.0UR ENDOSULFAN SULFATE
230J 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS
21UR METHOXYCHLOR
4.0UR ENDRIN KETONE
4.0UR ENDRIN ALDEHYDE
2.1UR CHLORDANE (TECH. MIXTURE) /1
2.1UR GAMMA-CHLORDANE /2
2.1UR PHENYL-CHLORDANE /2
21OUR TOXAPHENE
4.0UR PCB-1016 (AROCOLOR 1016)
4.0UR PCB-1221 (AROCOLOR 1221)
81UR PCB-1232 (AROCOLOR 1232)
4.0UR PCB-1242 (AROCOLOR 1242)
4.0UR PCB-1248 (AROCOLOR 1248)
4.0UR PCB-1254 (AROCOLOR 1254)
4.0UR PCB-1260 (AROCOLOR 1260)
19 PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *M-NOT ANALYZED *N/A-INTERFERENCES *I-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

••• PROJECT NO: 91-266 SAMPLE NO: 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
••• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
••• STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
••• CASE NO: 15773 SAS NO: D. NO: AA54 MD NO: AA54

ANALYTICAL RESULTS ug/kg

5000J 3 UNIDENTIFIED COMPOUNDS
200JN HEXADECANOIC ACID

•••FOOTNOTES•••

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN.
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

SUCCLANOUS EXTRACTIVE COMPOUNDS - DATA REPORT
PROJECT NO: 91-288 SAMPLE NO: 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
STATION ID: LS-02 CITY: DICKSON ST: TN
CASE NO.: 16773 SAS NO.: COLLECTION START: 01/28/91 1640 STOP: 00/00/00
D. NO.: AA55 MD NO.: AA55

ANALYTICAL RESULTS UG/KG

800J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

***SUCCESSIONAL EARTH-TABLE COUNTRIES *** RE: ***
*** PROJECT NO. 91-268 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AAS3 MO NO.: AAS3

ANALYTICAL RESULTS UG/KG

800-1 UNIDENTIFIED COMPOUND

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSTS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: 58-03 CITY: DICKSON ST: TN
CASE NO.: 15773 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
SAS NO.: D. NO.: AA73 MD NO.: AA73

ANALYTICAL RESULTS UG/KG

4000J 2 UNIDENTIFIED COMPOUNDS
N PETROLEUM PRODUCT

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

** PROJECT NO: 91-268	** SAMPLE NO: 54435	** SAMPLE TYPE: SOIL	** PROG ELEM: NSF	** COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF			** CITY: DICKSON	** ST: TN
** STATION ID: SD-01			** COLLECTION START: 01/29/91	** STOP: 00/00/00
** CASE NO.: 15773		SAS NO.:	D. NO.: AA59	MD NO: AA59

ANALYTICAL RESULTS UG/KG
6000J 3 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA64 MD NO.: AA64

ANALYTICAL RESULTS UG/KG
5000J 4 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

•• PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
•• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
•• STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
•• CASE NO.: 15773 SAS NO.: D. NO.: AA67 MD NO.: AA67
•• * * * * *

ANALYTICAL RESULTS UG/KG

900J 1 UNIDENTIFIED COMPOUND

••FOOTNOTES••

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CD. LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NO.: 16773 SAS NO.: O. NO.: AA63 MD NO.: AA63

ANALYTICAL RESULTS UG/KG

2000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/28/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

•• PROJECT NO. 91-266 SAMPLE NO. S4437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
•• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
•• STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
•• CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO.: AA61

ANALYTICAL RESULTS ug/kg

4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A=VERAGE VALUE *NA=NOT ANALYZED *NAT=INTERFERENCES *J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *A=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R=QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54445 SAMPLE TYPE: SOIL PROG. ELEM: HSE COLLECTED BY: G REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA69 MD NO.: AA69

ANALYTICAL RESULTS UG/KG

7000J 8 UNIDENTIFIED COMPOUNDS
M PETROLEUM PRODUCT
200JN TRIBROMOPHENOL (NOT 2,4,6-)

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *I-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G. REIMFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA52 MD NO.: AA52

ANALYTICAL RESULTS UG/KG

3000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54448 SAMPLE TYPE: SOIL PROG ELEM: NSP COLLECTED BY: G BEINFIELD
SOURCE: DICKSON, LF CITY: DICKSON ST: TN
STATION: 10-55-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NO.: 15773 O. NO.: AA70 MD NO: AA70

ANALYTICAL RESULTS UG/KG
900J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NL-INTERFERENCES •L-ESTIMATED VALUE •H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. S4448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
** CASE NO.: 15773 SAS NO.: D. NO.: AA72 MD NO: AA72

ANALYTICAL RESULTS UG/KG
10000J 10 UNIDENTIFIED COMPOUNDS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: A454

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

450U	PHENOL	2300U	3-NITROANILINE
450U	BIS(2-CHLOROETHYL) ETHER	450U	ACENAPHTHENE
450U	2-CHLOROPHENOL	2300U	2,6-DINITROPHENOL
450U	1,3-DI CHLOROBENZENE	450U	4-NITROPHENOL
450U	1,4-DI CHLOROBENZENE	450U	DIBENZOFURAN
450U	1,4-DI CHLOROBENZENE	450U	2,4-DINITROTOLUENE
450U	2-METHYLPHENOL	450U	DIETHYL PHthalate
450U	2,2'-CHLOROISOPROPYLETHER	450U	4-CHLOROPHENYL PHENYL ETHER
450U	(3-AND/OR 4-METHYLPHENOL	450U	FLUORENE
450U	N-NITROSODI-N-PROPYLAMINE	2300U	4-NITROANILINE
450U	HEXA CHLOROETHANE	2300U	2-METHYL-4,6-DINITROPHENOL
450U	NITROBENZENE	450U	N-NITRODIPHENYLAMINE/DIPHENYLAMINE
450U	ISOPHORONE	450U	4-CHLOROPHENYL PHENYL ETHER
450U	2-NITROPHENOL	450U	HEXA CHLOROBENZENE (HCB)
450U	2,4-DI CHLOROPHENOL	2300U	PENTACHLOROPHENOL
450U	BIS(2-CHLOROETHYL) METHANE	450U	PHENANTHRENE
450U	2,4-DI CHLOROPHENOL	450U	ANTHRACENE
450U	1,2,4-TRICHLOROBENZENE	450U	CARBAZOLE
450U	NAPHTHALENE	81J	D1-N-BUTYLPHthalate
450U	4-CHLORANILINE	450U	FLUORANTHENE
450U	HEXA CHLOROBUTADIENE	450U	PYRENE
450U	4-CHLORO-3-METHYLPHENOL	450U	BENZYL BUTYL PHthalate
450U	2-METHYLNAPHTHALENE	450U	4,4'-DICHLOOROENNZIDINE
450U	HEXA CHLOROCYCLOC-PENTADIENE (HCCP)	450U	BENZO(A)ANTHRACENE
450U	2,4,8-TRICHLOROPHENOL	450U	CHRYSENE
2300U	2,4,8-TRICHLOROPHENOL	450U	BIS(2-ETHYLHEXYL) PHthalate
450U	2-CHLORONAPHTHALENE	450U	D1-N-OCTYLPHthalate
2300U	2-NITROANILINE	450U	BENZO(C AND/OR K) FLUORANTHENE
77J	DIMETHYL PHthalate	450U	BENZO-A-PYRENE
450U	ACENAPHTHYLENE	450U	INDENO (1,2,3-CD) PYRENE
450U	2,6-DINITROTOLUENE	450U	DIBENZO(A,H)ANTHRACENE
		450U	BENZO(GH)PERYLENE
		28	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54431 SAMPLE TYPE: SOIL PROJ ELEM: NSP COLLECTED BY: G.BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/28/91 1640 STOP: 00/00/00
 STATION ID: LS-02

CASE NO.: 15773

SAS NO.:

D. NO.: AASS

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

440U PHENOL	2300U 3-NITROANILINE
440U BIS(2-CHLOROETHYL) ETHER	440U ACENAPHTHENE
440U 2-CHLOROPHENOL	2300U 2,4-DINITROPHENOL
440U 1,3-DICHLOROBENZENE	2300U 4-NITROPHENOL
440U 1,4-DICHLOROBENZENE	440U DIBENZOFURAN
440U 1,2-DICHLOROBENZENE	440U 2,6-DINITROTOLUENE
440U 2-METHYLPHENOL	440U DIETHYL PHTHALATE
440U 2,2'-CHLOROISOPROPYLETHER	440U 4-CHLOROPHENYL PHENYL ETHER
440U (3-AND/OR 4)-METHYLPHENOL	440U FLUORENE
440U N-NITROSODI-N-PROPYLAMINE	2300U 4-NITROANILINE
440U HEXACHLOROETHANE	2300U 2-METHYL-4,6-DINITROPHENOL
440U NITROBENZENE	440U N-NITROSOOIPHENYLAMINE/DIPHENYLAMINE
440U ISOPHORONE	440U 4-BROMOPHENYL PHENYL ETHER
440U 2-NITROPHENOL	440U HEXACHLOROBENZENE (HCB)
440U 2,4-DIMETHYLPHENOL	2300U PENTACHLOROPHENOL
440U BIS(2-CHLOROETHOXY) METHANE	440U PHENANTHRENE
440U 2,4,4,6-TETRAOMPHENOL	440U ANTRACENE
440U 1,2,4-TRICHLOROBENZENE	440U CARBAZOLE
440U NAPHTHALENE	440U DI- <i>n</i> -BUTYLPHthalate
440U 4-CHLORANILINE	440U FLUORANTHENE
440U HEXACHLOROBUTADIENE	440U PYRENE
440U 4-CHLORO-3-METHYLPHENOL	440U BENZYL BUTYL PHTHALATE
440U 2-METHYLNAPHTHALENE	440U 3,3'-DICHLOROBENZIDINE
440U HEXACHLOROCLOPENTADIENE (HCCP)	440U BENZO(A)ANTHRACENE
440U 2,4,6-TRICHLOROPHENOL	440U CHRYSENE
2300U 2,4,5-TRICHLOROPHENOL	440U BIS(2-(METHYLHEXYL)) PHTHALATE
440U 2,4-DICHLOROPHENOL	440U 2-OCTYL PHTHALATE
2300U 2,4-DITROANILINE	440U BENZO(B AND/OR K)FLUORANTHENE
440U DIMETHYL PHTHALATE	440U BENZO-A-PYRENE
440U ACENAPHTHYLENE	440U BENZO(A,H)ANTHRACENE
440U 2,6-DINITROTOLUENE	440U BENZO(G,H,I)PERYLENE

26 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

- *A-AVERAGE VALUE *NA-NOT ANALYZED *WT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
- *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJ. NO.	SAMPLE NO.	SAMPLE TYPE:	PROJ. ELEM. NSF	COLLECTED BY:	G BEINFIELD	***
STATION ID:			CITY:	DICKSON	ST:	TN
CASE NO.:	SAS NO.:		COLLECTION START:	01/28/91	1620	STOP: 00/00/00
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS			
420UJ	PHENOL		2200UJ	3-NITROANILINE		
420UJ	BIS(2-CHLOROETHYL) ETHER		420UJ	ACENAPHTHENE		
420UJ	2-CHLOROPHENOL		2200UJ	2,4-DINITROPHENOL		
420UJ	1,3-DICHLOROBENZENE		2200UJ	4-NITROPHENOL		
420UJ	1,4-DICHLOROBENZENE		420UJ	DI BENZOFURAM		
420UJ	1,2-DICHLOROBENZENE		420UJ	2,4-DINITROTOLUENE		
420UJ	2-METHYLPHENOL		420UJ	DIETHYL PHTHALATE		
420UJ	2,2'-CHLORODISOPROPYLETHER		420UJ	4-CHLOROPHENYL PHENYL ETHER		
420UJ	(3-AMY/OR 4-)METHYLPHENOL		420UJ	FLUORENE		
420UJ	N,N-TRIISONOM-PROPYLAMINE		2200UJ	4-NITROANILINE		
420UJ	HEXACHLOROBUTANE		2200UJ	2-METHYL-4,6-DINITROPHENOL		
420UJ	HETEROBENZENE		420UJ	4-NITRODODIPHENYLAMINE/OTRPHENYLAMINE		
420UJ	ISOPHORONE		420UJ	4-BROMOPHENYL PHENYL ETHER		
420UJ	2-NITROPHENOL		420UJ	HEXA CHLOROBENZENE (HCB)		
420UJ	2,4-DIMETHYLPHENOL		2200UJ	PENTACHLOROPHENOL		
420UJ	BIS(2-CHLOROETHoxy) METHANE		420UJ	PHENANTHRENE		
420UJ	2,4-DICHLOROPHENOL		420UJ	ANTHRACENE		
420UJ	1,2,4-TRICHLOROBENZENE		420UJ	CARBAZOLE		
420UJ	NAPHTHALENE		420UJ	DI-N-BUTYL PHTHALATE		
420UJ	4-CHLORANILINE		420UJ	FLUORANTHENE		
420UJ	HEXA CHLOROBUTANE		420UJ	PYRENE		
420UJ	4-CHEMO-2-METHYLPHENOL		420UJ	BENZYL BUTYL PHTHALATE		
420UJ	2-METHYLNAPHTHALENE		420UJ	2,7-CHLOROBENZIDINE		
420UJ	HEXA CHLOROCYCLOPENTADIENE (HCCP)		420UJ	BENZO(A) ANTHRACENE		
420UJ	2,4,6-TRICHLOROPHENOL		420UJ	CHRYSENE		
2200UJ	2,4,5-TRICHLOROPHENOL		420UJ	BIS(2-ETHYLHEXYL) PHTHALATE		
2200UJ	2-CHLORONAPHTHALENE		420UJ	DI-N-OCTYL PHTHALATE		
2200UJ	2-NITROANILINE		420UJ	BENZO(B AND/OR K) FLUORANTHENE		
420UJ	DIMETHYL PHTHALATE		420UJ	BENZO-A-PYRENE		
420UJ	ACENAPHTHYLENE		420UJ	INDENO (1,2,3-CD) PYRENE		
420UJ	2,6-DINITROTOLUENE		420UJ	DI BENZO(A,H) ANTHRACENE		
			420UJ	BENZO(G,H) PERYLENE		
			22	PERCENT MOISTURE		

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
 *A=AVGAE VALUE *NA=NOT ANALYZED *N/A=INTERFERENCES *J=ESTIMATED VALUE *P=N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJ. NO.	SAMPLE NO.	SAMPLE TYPE	COLLECTED BY	COLLECTION DATE	COLLECTION TIME	STOP
PROJECT NO. 91-268	SAMPLE NO. 54429	SAMPLE TYPE: SOIL	G BEINFIELD			
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN		
STATION ID: SB-01			COLLECTION START: 01/28/91	1530	STOP: 00/00/00	
CASE NO.: 15773			O. NO.: AA53			
UG/KG			ANALYTICAL RESULTS			
			UG/KG			
4000 PHENOL	21000 3-NITROANILINE					
4000 BIS(2-CHLOROETHYL) ETHER	4000 ACENAPHTHENE					
4000 2-CHLOROPHENOL	21000 2,4-DINITROPHENOL					
4000 1,3-DICHLOROBENZENE	21000 4-NITROPHENOL					
4000 1,4-DICHLOROBENZENE	4000 DIBENZOFLURAN					
4000 1,2-DICHLOROBENZENE	4000 2,4-DINITROTOLUENE					
4000 2-METHYLPHENOL	4000 DIETHYL PHTHALATE					
4000 2,2'-CHLORODISOPROPYLETHER	4000 4-CHLOROPHENYL PHENYL ETHER					
4000 1,3-AND/OR 4-METHYLPHENOL	4000 FLUORENE					
4000 M-CHLOROPHENYL-N-PROPYLAMINE	21000 4-NITROANILINE					
4000 HEXACHLOROBUTANE	21000 2,4,6-DINITROPHENOL					
4000 NITROBENZENE	4000 2-NITRODIPHENYLAMINE/DIPHENYLAMINE					
4000 ISOPHORONE	4000 4-BROMOPHENYL PHENYL ETHER					
4000 2-NITROPHENOL	4000 HEXACHLOROBENZENE (HCB)					
4000 BIS(2-CHLOROETHOXY) METHANE	21000 PENTACHLOROPHENOL					
4000 2,4-DICHLOROPHENOL	4000 PHENANTHRENE					
4000 1,2,4-TRICHLOROBENZENE	4000 ANTHRACENE					
4000 NAPHTHALENE	4000 CARBAZOLE					
4000 4-CHLOROPHENYL	4000 DI-N-BUTYLPHthalate					
4000 HEXACHLOROBUTADIENE	4000 FLUORANTHENE					
4000 4-CHLORO-3-METHYLPHENOL	4000 PYRENE					
4000 2-METHYLNAPHTHALENE	4000 BENZYL BUTYL PHTHALATE					
4000 HEXACHLOROCYCLOPENTADIENE (HCCP)	4000 3,3'-DICHLOROBENZIDINE					
4000 2,4,6-TRICHLOROPHENOL	4000 BENZO(A)ANTHRACENE					
4000 2-CHLORONAPHTHALENE	4000 CHRYSENE					
21000 2-NITROANILINE	4000 BIS(2-ETHYLHEXYL) PHTHALATE					
4000 DIMETHYL PHTHALATE	4000 DI-N-OCTYLPHthalate					
4000 ACENAPHTHYLENE	4000 BENZO(B AND/OR K)FLUORANTHENE					
4000 2,6-DINITROTOLUENE	4000 BENZO-A-PYRENE					
	4000 INDENO (1,2,3-CD) PYRENE					
	4000 DIBENZO(A,H)ANTHRACENE					
	4000 BENZO(G,H)PERYLENE					
	18 PERCENT MOISTURE					

REMARKS

REMARKS

FOOTNOTES

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- *K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54447	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO	CF		CITY: DICKSON	ST: TN
STATION ID: SB-02			COLLECTION START: 01/30/91	STOP: 00/00/00
CASE NO.: 15773		SAS NO.:	D. NO.: AA71	
UG/KG	ANALYTICAL RESULTS			UG/KG
410U PHENOL	2100U	3-NITROANILINE		
410U BIS(2-CHLOROETHYL) ETHER	410U	ACENAPHTHENE		
410U 2-CHLOROPHENOL	2100U	2,4-DINITROPHENOL		
410U 1,3-DICHLOROBENZENE	2100U	4-NITROPHENOL		
410U 1,4-DICHLOROBENZENE	410U	1,4-BENZOFURAN		
410U 1,4-DINITROBENZENE	410U	2,4-DINITROTOLUENE		
410U 2-METHYLPHENOL	410U	4-METHYL PHTHALATE		
410U 2,2'-CHLORODIISOPROPYLETHER	410U	4-CYCLOPENTYL PHENYL ETHER		
410U (3-AND/OR 4-)METHYLPHENOL	410U	FLUORENE		
410U N-NITROSOQUINUINOPROPYLAMINE	2100U	4-NITROANILINE		
410U HEXACHLOROETHANE	2100U	2-METHYL-4,6-DINITROPHENOL		
410U NITROBENZENE	410U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE		
410U ISOPHORONE	410U	4-BROMOPHENYL PHENYL ETHER		
410U 2-NITROPHENOL	410U	HEXAChLOROBENZENE (HCB)		
410U 2,4-DIMETHYLPHENOL	2100U	PENTACHLOROPHENOL		
410U BIS(2-CHLOROETHYL) METHANE	410U	PHENANTHRENE		
410U 2,4-DICHLOROPHENOL	410U	CARBON TETRACHLORIDE		
410U 2,4,4-TRICHLOROBENZENE	410U	DI- <i>n</i> -BUTYLPHthalate		
410U NAPHTHALENE	410U	FLUORANTHENE		
410U 4-CHLORDANTHENE	410U	PYRENE		
410U HEXACHLOROBUTADIENE	410U	BENZYL BUTYL PHTHALATE		
410U 4-CHLORO-3-METHYLPHENOL	410U	3,3'-DICHLOROBENZIDINE		
410U 2-METHYLNAPHTHALENE	410U	BENZO(A)ANTHRACENE		
410U HEXACHLOROCYCLOPENTADIENE (HCCP)	410U	CHRYSENE		
410U 2,4,6-TRICHLOROPHENOL	410U	(1S,2S)-BIS(2-CHLOROHEXYL) PHTHALATE		
2100U 2,4,4-TRICHLOROPHENOL	410U	DI- <i>n</i> -OCTYLPHthalate		
410U 2-CHLORONAPHTHALENE	410U	BENZO(B AND/OR K)FLUORANTHENE		
2100U 2-NITROANILINE	410U	BFNzo-A-PYRENE		
410U DIMETHYL PHTHALATE	410U	INDENO (1,2,3-CD) PYRENE		
410U ACENAPHTHYLENE	410U	OIBENZO(A,H)ANTHRACENE		
410U 2,6-DINITROTOLUENE	410U	BENZO(GH)PERYLENE		
	21	PERCENT MOISTURE		

DOTNOTES
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 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/30/91 1250 STOP: 00/00/00
 STATION ID: SB-03

CASE NO.: 15773

SAS NO.:

D. NO.: AA73

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

1600U PHENOL	8400U 3-NITROANILINE
1600U BIS(2-CHLOROETHYL) ETHER	1600U ACENAPHTHENE
1600U 2-CHLOROPHENOL	8400U 2,4-DINITROTOLUENE
1600U 1, 3-DICHLOROBENZENE	1600U 2-METHYLPHENOL
1600U 1, 4-DICHLOROBENZENE	1600U DIBENZOFURAN
1600U 1, 2-DICHLOROBENZENE	1600U 2,4-DINITROTOLUENE
1600U 2-METHYLPHENOL	1600U DIETHYL PHTHALATE
1600U 2, 2'-CHLOROISOPROPYLETHER	1600U 4-CHLOROPHENYL PHENYL ETHER
1600U (3-AND/OR 4-METHYLPHENOL	1600U FLUORENE
1600U N-NITROSODI-N-PROPYLAMINE	8400U 4-NITROANILINE
1600U HEXACHLOROETHANE	8400U 2-METHYL-4, 6-DINITROTOLUENE
1600U NITROBENZENE	1600U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1600U ISOPHORONE	1600U 4-BROMOPHENYL PHENYL ETHER
1600U 2-NITROPHENOL	1600U HEXACHLOROBENZENE (HCB)
1600U 2, 4-DIMETHYLPHENOL	8400U 2, 4-DIMETHYLBENZENOL
1600U BIS(2-CHLOROETHoxy) METHANE	1600U PHENANTHRENE
1600U 2, 4-DICHLOROPHENOL	1600U ANTHRACENE
1600U 1, 2, 4-TRICHLOROBENZENE	1600U CARBAZOLE
200J NAPHTHALENE	1600U DI-N-BUTYL PHTHALATE
1600U 4-CHLOROANILINE	1600U FLUORANTHENE
1600U HEXACHLOROBUTADIENE	1600U PYRENE
1600U 4-CHLORO-3-METHYLPHENOL	1600U BENZYL BUTYL PHTHALATE
1600U 2-METHYLNAPHTHALENE	1600U 3, 3'-DICHLOROBENZIDINE
1600U HEXACHLOROCYCLOPENTADIENE (HCCP)	1600U BENZO(A)ANTHRACENE
1600U 2, 4, 6-TRICHLOROPHENOL	1600U CHRYSENE
8400U 2, 4, 6-TRICHLOROPHENOL	1600U 2-(METHYLHEXYL) PHTHALATE
1600U 2-CALORONAPHTHALENE	1600U DI-N-OCTYL PHTHALATE
8400U 2-NITROANILINE	1600U BENZO(B) AND/OR K FLUORANTHENE
1600U DIMETHYL PHTHALATE	1600U BENZO-A-PYRENE
1600U ACENAPHTHYLENE	1600U INDENO (1, 2, 3-CD) PYRENE
1600U 2, 6-DINITROTOLUENE	1600U BENZO(A,H)ANTHRACENE
	1600U BENZO(G,H)PERYLENE
	20 PERCENT MOISTURE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST. TN COLLECTION START: 01/29/91 1030 STOP: 00/00/00
STATION ID: SD-01

CASE NO.: 15778

SAS NO.:

D. NO.: AA59

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

5000 PHENOL	26000 3-NITROANILINE
5000 BIS(2-CHLOROETHYL) ETHER	5000 ACENAPHTHENE
5000 2-CHLOROPHENOL	26000 2,4-DINITROPHENOL
5000 1,3-DICHLOROBENZENE	26000 4-NITROPHENOL
5000 1,4-DICHLOROBENZENE	5000 DIBENZOFLUORAN
5000 1,2-DICHLOROBENZENE	5000 2,4-DINITROTOLUENE
5000 2-METHYLPHENOL	5000 DIETHYL PHthalATE
5000 2,2'-CHLOROISOPROPYLETHER	5000 4-CHLOROPHENYL PHENYL ETHER
5000 (3-AND/OR 4-)METHYLPHENOL	5000 FLUORENE
5000 NITROSODIMethyl-N-PROPYLAMINE	26000 4-NITROANILINE
5000 HEXACHLOROBUTANE	26000 2-METHYL-4,6-DINITROPHENOL
5000 NITROBENZENE	5000 N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
5000 ISOPHORONE	5000 4-(4-METHYL-PHENYL) PHENYL ETHER
5000 2-NITROPHENOL	5000 HEXACHLOROBENZENE (HCB)
5000 2,4-DIMETHYLPHENOL	26000 PENTACHLOROPHENOL
5000 BIS(2-CHLOROETHOXY) METHANE	5000 PHENANTHRENE
5000 2,4-DICHLOROPHENOL	5000 ANTHRACENE
5000 1,2,4-TRICHLOROBENZENE	5000 CARBAZOLE
5000 NAPHTHALENE	5000 DI-N-BUTYLPHthalATE
5000 4-CHLOROANILINE	5000 FLUORANTHENE
5000 HEXACHLOROBUTADIENE	5000 PYRENE
5000 4-CHLORO-2-METHYLPHENOL	5000 BENZYL BUTYL PHthalATE
5000 2-METHYLNAPHTHALENE	5000 3,3'-DICHLOOROBENZIDINE
5000 HEXACHLOROCYCLOCHEPTADIENE (HCCP)	5000 BIS(2-CHLORO)ANTHRACENE
5000 2,4,8-TRICHLOROPHENOL	5000 CHRYSENE
26000 2,4,5-TRICHLOROPHENOL	5000 BIS(2-ETHYLHEXYL) PHthalATE
5000 2-CHLORONAPHTHALENE	5000 DI-N-OCTYLPHthalATE
26000 2-NITROANILINE	5000 BENZO(B AND/OR K)FLUORANTHENE
5000 DIMETHYL PHthalATE	5000 BENZO-A-PYRENE
5000 ACENAPHTHYLENE	5000 INDENE (1,2,3-CD) PYRENE
5000 2,6-DINITROTOLUENE	5000 DIBENZO(A,H)ANTHRACENE
	5000 BENZO(GH)PERYLENE
	34 PERCENT MOISTURE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE:	COLLECTED BY:	COLLECTED BY:
SOURCE:	CITY:	STATION ID:	COLLECTION DATE:	STOP:
490U	54440	SOIL	G BEINFIELD	
490U	DICKSON CO. LF		DICKSON	SI: TN
490U	SD-02			00/00/00
490U	CASE NO.: 15773	SAS NO.:	D. NO.: AA64	
490U	UG/KG	ANALYTICAL RESULTS	UG/RG	ANALYTICAL RESULTS
490U	PHENOL		2500U	3-NITROANILINE
490U	BIS(2-CHLOROETHYL) ETHER		490U	ACENAPHTHENE
490U	2-CHLOROPHENOL		2500U	2,4-DINITROPHENOL
490U	1,3-DICHLOROBENZENE		2500U	4-NITROPHENOL
490U	1,4-DICHLOROBENZENE		490U	DIBENZOFURAN
490U	1,2-DICHLOROBENZENE		490U	2,4-DINITROTOLUENE
490U	2-METHYLPHENOL		490U	DIETHYL PHTHALATE
490U	2,2'-CHLOROTISOPROPYLETHER		490U	4-CHLOROPHENYL PHENYL ETHER
490U	(3-AND/OR 4-)METHYLPHENOL		490U	FLUORENE
490U	N-NITROSODI-N-PROPYLAMINE		2500U	4-NITROANILINE
490U	HEXACHLORETHANE		2500U	2-METHYL-4,6-DINITROPHENOL
490U	4-NITROBENZENE		490U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
490U	1,4-PYRONE		490U	4-BENZOPHENYL PHENYL ETHER
490U	2-NITROPHENOL		2500U	HEXACHLOROBENZENE (HCB)
490U	2,4-DIMETHYLPHENOL		490U	PENTACHLOROPHENOL
490U	BIS(2-CHLOROETHOXY) METHANE		490U	PHENANTHRENE
490U	2,4-DICHLOROPHENOL		490U	ANTHRACENE
490U	1,2,4-TRICHLOROBENZENE		490U	CARBAZOLE
490U	NAPHTHALENE		490U	01-M-BUTYLPHTHALATE
490U	4-CHLOROANILINE		60J	FLUORANTHENE
490U	HEXACHLOROBUTADIENE		63J	PYRENE
490U	4-CHLOROPHENYL PHENOL		490U	BENZO-A BUTYL PHTHALATE
490U	2-METHYLNAPHTHENE		490U	3,5-DICHLOROBENZIDINE
490U	HEXACHLOROCYCLOPENTADIENE (HCCP)		490U	BENZO-A ANTHRACENE
490U	2,4,6-TRICHLOROPHENOL		490U	CHRYSENE
2500U	2,4,5-TRICHLOROPHENOL		490U	BIS(2-ETHYLHEXYL) PHTHALATE
490U	2-CHLORONAPHTHALENE		490U	DI-4-OCTYLPHTHALATE
2500U	2-NITROANILINE		490U	BENZO(A AND/OR K)FLUORANTHENE
490U	DIMETHYL PHTHALATE		490U	BENZO-A-PYRENE
490U	ACENAPHTHYLENE		490U	INDENO (1,2,3-CD) PYRENE
490U	2,6-DINITROTOLUENE		490U	DIBENZO(A,H)ANTHRACENE
			490U	BENZO(GHI)PERYLENE
			34	PERCENT MOISTURE

FOOTNOTES

- *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1340 STOP: 00/00/00
 STATION ID: SD-03

CASE NO.: 1573 SAS NO.: 0. NO.: AA67

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
440U	PHENOL	2300U	3-NITROANILINE
440U	BIS(2-CHLOROETHYL) ETHER	440U	ACENAPHTHENE
440U	2-CHLOROPHENOL	2300U	4-DINITROPHENOL
440U	2-CHLOROBENZENE	2300U	4-NITROPHENOL
440U	1,4-DICHLOROBENZENE	440U	DIBENZOFURAN
440U	1,2-DICHLOROBENZENE	440U	2,4-DINITROTOLUENE
440U	2-METHYLPHENOL	440U	DIETHYL PHthalate
440U	2,2'-CHLORODIISOPROPYLETHER	440U	4-CHLOROPHENYL PHENYL ETHER
440U	(3-AND/OR-4-)METHYLPHENOL	440U	FLUORENE
440U	N-NITROSO DI-N-PROPYLAMINE	2300U	4-NITROANILINE
440U	HEXAChLORoETHANE	2300U	2-METHYL-4,6-DINITROPHENOL
440U	NITROBENZENE	440U	N-NITROSO DI-PHENYLAMINE/DIPHENYLAMINE
440U	ISOPHORONE	440U	BIPHENYLPHENYL PHENYL ETHER
440U	2,4-DIMETHYLPHENOL	440U	HEXAChLOROBENZENE (HCB)
440U	2,4-DIMETHYLPHENOL	2300U	PENTACHLOROPHENOL
440U	BIS(2-CHLOROETHYL) METHANE	440U	PHENANTHRENE
440U	2,4-DICHLOROPHENOL	440U	ANTHRACENE
440U	1,2,4-TRICHLOROBENZENE	440U	CARBAZOLE
440U	NAPHTHALENE	440U	DI-N-BUTYLPHthalate
440U	4-CHLORoANILINE	440U	FLUORANTHENE
440U	HEXAChLOROBUTADIENE	440U	PYRENE
440U	4-CHLORO-3-METHYLPHENOL	440U	BENZENE BUTYL PHthalate
440U	2-METHYLPHENOL	440U	4,4'-DICHLOROBENZIDINE
440U	HEXAChLOROCYCLOPENTADIENE (HCCP)	440U	BENZO(A)ANTHRACENE
440U	2,4,6-TRICHLOROPHENOL	440U	CHRYSENE
2300U	2-CHLORONAPHTHALENE	440U	BIS(2-ETHYLHEXYL) PHthalate
2300U	2-NITROANILINE	440U	DI- <i>n</i> -OCTYLPHthalate
440U	DIMETHYL PHthalate	440U	BENZO(B AND/OR K)FLUORANTHENE
440U	ACENAPHTHYLENE	440U	BENZO-A-PYRENE
440U	2,6-DINITROTOLUENE	440U	INDENO(1,2,3-CD) PYRENE
		440U	DIBENZ(A,H)ANTHRACENE
		440U	BENZO(G,H)PERYLENE
		27	PERCENT MOISTURE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO.	SAMPLE NO.	SAMPLE TYPE:	PROG ELEM:	COLLECTED BY:	STATION ID:	CITY:	ST:	COLLECTION START:	STOP:
**	**	SOIL	NSF	G.BEINFIELD	SD-04	DICKSON	TN	01/29/91	00/00/00
**	**	**	**	**	**	**	**	**	**
**	CASE NO.:	15773	SAS NO.:	D. NO.:	AA63				
**	UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS					
460U	PHENOL	2400U	3-NITROANILINE						
460U	BIS(2-CHLOROETHYL) ETHER	460U	ACENAPHTHENE						
460U	2-CHLOROPHENOL	2400U	2,4-DINITROPHENOL						
460U	1,3-DICHLOROBENZENE	2400U	4-NITROPHENOL						
460U	1,4-DICHLOROBENZENE	460U	DIBENZOFURAN						
460U	1,2-DICHLOROBENZENE	460U	2,4-DINITROTOLUENE						
460U	2-METHYL-PHENOL	460U	DIETHYL PHthalate						
460U	2,2'-CHLOROISOPROPYLETHER	460U	4-NITROPHENYL PHENYL ETHER						
460U	(3-AND/OR-4)-METHYLPHENOL	460U	FLUORENE						
460U	N-NITROSODI-N-PROPYLAMINE	2400U	4-NITROANILINE						
460U	HEXAChLORoETHANE	460U	2-METHYL-4,6-DINITROPHENOL						
460U	NITROBENZENE	460U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE						
460U	1,5PHORONE	460U	4-BROMOPHENYL PHENYL ETHER						
460U	2-NITROPHENOL	460U	HEXAChLOROBENZENE (HCB)						
460U	2,4-DIMETHYLPHENOL	2400U	PENTACHLOROPHENOL						
460U	BIS(2-CHLOROETHOXY) METHANE	460U	PHENANTHRENE						
460U	2,4-DICHLOROPHENOL	460U	ANTHRACENE						
460U	1,2,4-TRICHLOROBENZENE	460U	CARBON DIOXIDE						
460U	NAPHTHALENE	460U	4-BUTYLPHthalate						
460U	4-CHLORANILINE	460U	FLUORANTHENE						
460U	HEXAChLOROBUTADIENE	460U	PYRENE						
460U	4-CHLORO-3-METHYLPHENOL	460U	BENZYL BUTYL PHthalate						
460U	2-METHYLNAPHTHALENE	460U	3,3'-DICHLOROBENZIDINE						
460U	HEXAChLOROCYCLOPENTADIENE (HCP)	460U	BENZO[1,2-A]ANTHRACENE						
460U	2,4,6-TRICHLOROPHENOL	460U	CHRYSENE						
2400U	2,4,5-TRICHLOROPHENOL	460U	BIS(2-ETHYLHEXYL) PHthalate						
460U	2-CHLOROPHENYL PHENALENE	460U	DI-4-OCTYLPHthalate						
2400U	2-NITROANILINE	460U	BIS(2- AND/OR-4) FLUORANTHENE						
460U	DIMETHYL PHthalate	460U	PERZEN						
460U	ACENAPHTHYLENE	460U	INDENO (1,2,3-CD) PYRENE						
460U	2,6-DINITROTOLUENE	460U	DIBENZO[1,4]ANTHRACENE						
		460U	BENZO[1,2-H]PERYLENE						
		30	PERCENT MOISTURE						

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/20/91 1130 STOP: 00/00/00
STATION ID: SD-06
CASE NO.: 15773 SAS NO.: D. NO.: A461

UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

430U PHENOL	2200U 3-NITROANILINE
430U BIS(2-CHLOROETHYL) ETHER	430U ACENAPHTHENE
430U 2-CHLOROPHENOL	2200U 2,4-DINITROPHENOL
430U 1,3-DICHLOROBENZENE	2200U 4-NITROPHENOL
430U 1,1-DICHLOROBENZENE	430U 2-BENZOFURANE
430U 1,2-DICHLOROBENZENE	430U 2,6-DINITROTOLUENE
430U 2-METHYLPHENOL	430U DIETHYL PHTHALATE
430U 2,2'-CHLOROISOPROPYLETHER	430U 4-CHLOROPHENYL PHENYL ETHER
430U (3-AND/OR 4-)METHYLPHENOL	430U FLUORENE
430U N-NITROSODI-N-PROPYLAMINE	2200U 4-NITROANILINE
430U HEKACHLOROETHANE	2200U 2-METHYL-4,6-DINITROPHENOL
430U NITROBENZENE	430U N-NITROSO(DIPHENYLAMINE)/(DIPHENYLAMINE)
430U ISOPHORONE	430U 4-BROMOPHENYL PHENYL ETHER
430U 2-NITROPHENOL	430U HEKACHLOROBENZENE (HCB)
430U 2,4-DIMETHYLPHENOL	2200U PENTACHLOROPHENOL
430U BIS(2-CHLOROETHoxy) METHANE	430U PENTACHLOROPHENENE
430U 2,4-DICHLOROPHENOL	430U ANTHRACENE
430U 1,2,4-TRICHLOROBENZENE	430U CARBAZOLE
430U NAPHTHALENE	430U DI-M-BUTYLPHTHALATE
430U 4-CHLOROANILINE	430U FLUORANTHENE
430U HEKACHLOROBUTADIENE	430U PYRENE
430U 4-CHLORO-3-METHYLPHENOL	430U BENZYL BUTYL PHTHALATE
430U 2-METHYLNAPHTHALENE	430U 3,3'-DICHLOROBENZIDINE
430U HEXACHLOROCYCLOPENTADIENE (HCCP)	430U BENZO(A)ANTHRACENE
2200U 2,4,6-TRICHLOROPHENOL	430U CHRYSENE
430U 2,4,5-TRICHLOROPHENOL	430U BIS(2-ETHYLHEXYL) PHTHALATE
2200U 2,4-NITROPHENOL	430U DI-2-HEXYLPHTHALATE
430U 2,6-NITROANILINE	430U BENZO(B, AND/OR K)FLUORANTHENE
430U DIMETHYL PHTHALATE	430U BENZO-A-PYRENE
430U ACENAPHTHYLENE	430U INDENO (1,2,3-CD) PYRENE
430U 2,6-DINITROTOLUENE	430U DIBENZO(A,H)ANTHRACENE
	430U BENZO(G,H)PERYLENE
	24 PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1445 STOP: 00/00/00
*** STATION ID: SD-06 ***
*** CASE NO.: 15773 SAS NO.: D. NO.: AA69
*** UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

440U	PHENOL	2300U	3-NITROANILINE
440U	BIS(2-CHLOROETHYL) ETHER	440U	ACENAPHTHENE
440U	2-CHLOROPHENOL	2300U	4-DINITROTOLUENE
440U	1,3-DICHLOROBENZENE	2300U	4-NITROPHENOL
440U	1,4-DICHLOROBENZENE	440U	DIBENZOFURAN
440U	1,2-DICHLOROBENZENE	440U	2,4-DINITROTOLUENE
440U	2-METHYLPHENOL	440U	DIETHYL PHthalate
440U	2,2'-CHLORoisOPROPYLETHER	440U	4-CHLOROPHENYL PHENYL ETHER
440U	(3-AND/OR 4-METHYLPHENOL	440U	FLUORENE
440U	N-NITROSODI-N-PROPYLAMINE	2300U	4-NITROANILINE
440U	HEXACHLOROETHANE	2300U	2-METHYL-4,6-DINITROTOLUENE
440U	1,4-DICHLOROBENZENE	440U	N-NITRODIPHENYLAMINE/DIPHENYLAMINE
440U	ISOPHORENE	440U	4-BRAnOPHENYL PHENYL ETHER
440U	2-MITROPHENOL	440U	HEXAChLOROBENZENE (HCB)
440U	2,4-DIMETHYLPHENOL	2300U	PENTACHLOROPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE	310J	PHENANTHRENE
440U	2,4-DICHLOROPHENOL	51J	ANTHRACENE
440U	1,2,4-TRICHLOROBENZENE	440U	CARBAzOLE
440U	NAPHTHALENE	440U	DI-N-BUTYLPHthalate
440U	4-CHLORANILINE	410J	FLUORANTHENE
440U	HEXACHLOROBUTADIENE	270J	PYRENE
440U	4-CHLORO-3-METHYLPHENOL	560	BENZYL BUTYL PHthalate
440U	4-CHLORO-4-METHYLPHENOL	440U	3,3'-BICHLOROBENZIDINE
440U	HEXACHLOROCYCLOPENTADIENE (HCCP)	190J	6,6'-(ANTHRACENE
440U	2,4,6-TRICHLOROPHENOL	170J	ANTHRACENE
440U	2-CHLORONAPHTHALENE	440U	BIS(2-ETHYLHEXYL) PHthalate
2300U	2-NITROANILINE	440U	DI-N-OCTYLPHthalate
440U	DIMETHYL PHthalate	440U	BENZO(B AND/OR K)FLUORANTHENE
440U	ACENAPHTHYLENE	440U	BENZO-A-PYRENE
440U	2,6-DINITROTOLUENE	440U	INDENO (1,2,3-CD) PYRENE
		440U	DIBENzo(A,H)ANTHRACENE
		440U	BENZOL(GH)PERYLENE
		25	PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *L-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REDION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

** PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SS-02 COLLECTION START: 01/30/91 1036 STOP: 00/00/00
**

** CASE NO.: 15773

SAS NO.:

D. NO.: AA70

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

400U	PHENOL	2100U	3-NITROANILINE
400U	BIS(2-CHLOROETHYL) ETHER	400U	ACENAPHTHENE
400U	2-CHLOROPHENOL	2100U	2,4-DINITROPHENOL
400U	1,3-DICHLOROBENZENE	2100U	4-NITROPHENOL
400U	1,4-DICHLOROBENZENE	400U	DI BENZO FURAN
400U	1,2-DICHLOROBENZENE	400U	2,4-DINITROTOLUENE
400U	2-METHYLPHENOL	400U	DIETHYL PHTHALATE
400U	2,2'-CHLOROISOPROPYLETHER	400U	4-CHLOROPHENYL PHENYL ETHER
400U	(3-AND/OR 4)-METHYLPHENOL	400U	FLUORENE
400U	N-NITROSODIMETHYLAMINE	2100U	2-METHYL-4,6-DINITROPHENOL
400U	METHYLPHENOL	400U	4-NITRODIPHENYLAMINE/DIPHENYLAMINE
400U	NITROBENZENE	400U	4-BROMOPHENYL PHENYL ETHER
400U	ISOPHORONE	400U	HEXA CHLOROBENZENE (HCB)
400U	2-NITROPHENOL	2100U	PENTACHLOROPHENOL
400U	2,4-DIMETHYLPHENOL	57J	PHENANTHRENE
400U	BIS(2-CHLOROETHOXY) METHANE	400U	ANTHRACENE
400U	2,4-DICHLOROPHENOL	400U	CARBAZOLE
400U	1,2,4-TRICHLOROBENZENE	400U	DI-N-BUTYL PHTHALATE
400U	NAPHTHALENE	85J	FLUORANTHENE
400U	4-CHLORONAPHTHENE	60U	PYRENE
400U	HEXA CHLOROBENZENE	400U	BENZYL BUTYL PHTHALATE
400U	2-CHE-3-METHYLPHENOL	400U	3,3'-DICHLOROBENZIDINE
400U	2-METHYLNAPHTHALENE	42J	BENZO(A)ANTHRACENE
400U	HEXA CHLOROCYCLOPENTADIENE (HCP)	400U	CHRYSENE
400U	2,4,6-TRICHLOROPHENOL	400U	BIS(2-ETHYLHEXYL) PHTHALATE
400U	2-CHLORONAPHTHALENE	400U	DI-N-OCTYL PHTHALATE
2100U	2-NITROANILINE	400U	BENZO(B AND/OR K) FLUORANTHENE
67J	DIMETHYL PHTHALATE	400U	BENZO-A-PYRENE
400U	ACENAPHTHYLENE	400U	40-5000
400U	2,6-DINITROTOLUENE	400U	DIBENZO(A-H) ANTHRACENE
		400U	BENZO(OH) PERYLENE
		19	PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. S4446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA70

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

400U PHENOL	2100U 3-NITROANILINE
400U BIS(2-CHLOROETHYL) ETHER	400U ACENAPHTHENE
400U 2-CHLOROPHENOL	2100U 2,4-DINITROPHENOL
400U 1,3-DICHLOROBENZENE	2100U 4-NITROPHENOL
400U 1,4-DICHLOROBENZENE	400U DIBENZOFURAN
400U 1,2-DICHLOROBENZENE	400U 2,4-DINITROTOLUENE
400U 2-METHYLPHENOL	400U DIETHYL PHTHALATE
400U 2-(2,4-DINITROPROPYL)ETHER	400U 4-CHLOROPHENYL PHENYL ETHER
400U 3,4-DI(2-METHYLPHENOL)	400U FLUORENE
400U N-NITROSO-DIMETHYLAMINE	2100U 4-NITROANILINE
400U HEXACHLOROETHANE	2100U 2,4-DINITRO-6-P-NITROPHENOL
400U MITROBENZENE	400U 4-NITROSO(DIPHENYLAMINE)/DIPHENYLAMINE
400U ISOPHORONE	400U 4-BROMOPHENYL PHENYL ETHER
400U 2-NITROPHENOL	400U HEXACHLOROBENZENE (HCB)
400U 2,4-DIMETHYLPHENOL	2100U PENTACHLOROPHENOL
400U BIS(2-CHLOROETHoxy) METHANE	57J PHENANTHRENE
400U 2,4-DICHLOROPHENOL	400U ANTHRACENE
400U 1,2,4-TRICHLOROBENZENE	400U CARBAZOLE
400U NAPHTHALENE	400U DI-2-BUTYLPHthalate
400U 4-CHLORANILINE	85J FLUORANTHENE
400U HEXACHLOROBUTADIENE	65J PYRENE
400U 4-CHLORO-3-METHYLPHENOL	400U BENZYL BUTYL PHTHALATE
400U 2-METHYLNAPHTHALENE	400U 3,3'-DICHLOROBENZIDINE
400U HEXACHLOROCYCLOPENTADIENE (HCCP)	42J BENZO(A)ANTHRACENE
400U 2,4,6-TRICHLOROPHENOL	400U CHRYSENE
2100U 2,4,5-TRICHLOROPHENOL	400U BIS(2-ETHYLHEXYL) PHTHALATE
400U 2-CHLORONAPHTHALENE	400U DI-N-OCTYLPHthalate
2100U 2-NITROANILINE	400U BENZO(I AND/OR K)FLUORANTHENE
400U DIBENZOPHthalate	400U BENZO-A-PYRENE
400U ACENAPHTHYLENE	400U INDENO (1,2,3-CD) PYRENE
400U 2,6-DINITROTOLUENE	400U IBENZO(A,H)ANTHRACENE
	400U BEMZO(GHI)PERYLENE
	19 PERCENT MOISTURE

POINTESS

*A-AVERAGE VALUE *NA-NOT ANALYZED *N=INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO.: 91-266 SAMPLE NO.: 54437 SAMPLE TYPE: SOIL PROG. ELEM: NSP COLLECTED BY: G. BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
 *** CASE NO.: 15773 SAS NO.: D. NO.: AA61
 UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

13U	CHLOROMETHANE	13U	1,2-DICHLOROPROPANE
13U	BROMOMETHANE	13U	CIS-1,3-DICHLOROPROPENE
13U	1,1-DIVINYLCHEMIDE	13U	TRICHLOROETHENE (TRICHLOROETHYLENE)
13U	CHLOROETHANE	13U	DIBROMOCHLOROMETHANE
30U	METHYLENE CHLORIDE	13U	1,1,2-TRICHLOROETHANE
13U	ACETONE	13U	BENZENE
13U	CARBON DISULFIDE	13U	TRANS-1,3-DICHLOROPROPENE
13U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U	BROMOFORM
13U	1,1-DICHLOROETHANE	13U	METHYL ISOBUTYL KETONE
13U	1,2-DICHLOROETHENE (TOTAL)	13U	METHYL BUTYL KETONE
13U	CHLOROFORM	13U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U	1,2-DICHLOROETHANE	13U	1,1,2,2-TETRACHLOROETHANE
13U	METHYL ETHYL KETONE	13U	TOLUENE
13U	1,1,1-TRICHLOROETHANE	13U	CHLOROBENZENE
13U	CARBON TETRACHLORIDE	13U	ETHYL BENZENE
13U	BROMODICHLOROMETHANE	13U	STYRENE
		13U	TOTAL XYLEMES
		24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA52

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
13U	CHLOROMETHANE	13U	1,2-DICHLOROPROPANE
13U	BROMOMETHANE	13U	CIS-1,3-DICHLOROPROPENE
13U	VINYL CHLORIDE	13U	TRICHLOROETHENE (TRICHLOROETHYLENE)
13U	CHLOROETHANE	13U	DIBROMOCHLOROMETHANE
20U	METHYLENE CHLORIDE	13U	1,1,2-TRICHLOROETHANE
13U	ACETONE	13U	BENZENE
13U	CARBON DISULFIDE	13U	TRANS-1,3-DICHLOROPROPENE
13U	1,1-DICHLOROETHANE (1,1-DICHLOROETHYLENE)	13U	BROMOFORM
13U	1,1-DICHLOROETHANE	13U	1,1,2,2-TETRACHLOROETHANE
13U	1,1,2-DICHLOROETHENE (TOTAL)	13U	METHYL BUTYL KETONE
13U	CHLOROFORM	13U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U	1,2-DICHLOROETHANE	13U	1,1,2,2-TETRACHLOROETHANE
13U	METHYL ETHYL KETONE	13U	TOLUENE
13U	1,1,1-TRICHLOROETHANE	13U	CHLOROBENZENE
13U	CARBON TETRACHLORIDE	13U	ETHYL BENZENE
13U	BROMODICHLOROMETHANE	13U	STYRENE
		24	TOTAL XYLENES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
 CASE NO.: 15773 SAS NO.: D. NO.: AA60
 UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

13U CHLOROMETHANE	13U 1,2-DICHLOROPROPANE
13U BROMOMETHANE	13U CIS-1,2-DICHLOROPROPENE
13U VINYL CHLORIDE	13U TRICHLOROETHANE/TRICHLOROETHYLENE)
13U CHLOROETHANE	13U DIBROMODICHLOROMETHANE
40U METHYLENE CHLORIDE	13U 1,1,2-TRICHLOROETHANE
40U ACETONE	13U BENZENE
13U CARBON DISULFIDE	13U TRANS-1,3-DICHLOROPROPENE
13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	13U BROMOFORM
13U 1,1-DICHLOROETHANE	13U METHYL ISOBUTYL KETONE
13U 1,1-DICHLOROETHENE (TOTAL)	13U METHYL BUTYL KETONE
58 CHLOROFORM	13U TETRACHLOROETHENE/TETRACHLOROETHYLENE)
13U 1,2-DICHLOROETHANE	13U 1,1,1-TETRACHLOROETHANE
13U METHYL ETHYL KETONE	13U TOLUENE
13U 1,1,1-TRICHLOROETHANE	13U CHLOROBENZENE
13U CARBON TETRACHLORIDE	13U ETHYL BENZENE
13U BROMODICHLOROMETHANE	13U STYRENE
	13U TOTAL XYLENES
	25 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 ** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 ** STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
 ** CASE NO.: 15773 SAS NO.: D. NO.: AA70
 ** UG/KG ANALYTICAL RESULTS UG/KG ANALYTICAL RESULTS

12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	CIS-1,3-DICHLOROPROPENE
12U	VINYL CHLORIDE	12U	TRICHLOROETHENE(TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	DIBROMOCHLOROMETHANE
40U	METHYLENE CHLORIDE	12U	1,1,2-TRICHLOROETHANE
12U	ACETONE	12U	BENZENE
12U	CARBON DISULFIDE	12U	TRANS-1,3-DICHLOROPROPENE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	12U	BROMOFORM
12U	1,1-DICHLOROETHANE	12U	METHYL ISOBUTYL KETONE
12U	1,1,2-DICHLOROETHANE (TOTAL)	12U	METHYL BUTYL KETONE
12U	CHLOROFORM	12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,2-DICHLOROETHANE	12U	1,2,2-TETRACHLOROETHANE
12U	MÉTHYL ETHYL KETONE	12U	TOLUENE
12U	1,1,1-TRICHLOROETHANE	12U	CHLOROBENZENE
12U	CARBON TETRACHLORIDE	12U	ETHYL BENZENE
12U	BROMODICHLOROMETHANE	12U	STYRENE
		19	TOTAL XYLENES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *M1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJ. NO.	SAMPLE NO.	SAMPLE TYPE:	COLLECTED BY:	COLLECTION DATE:
91-268	54448	SOIL	G BEINFIELD	
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: 55-03			COLLECTION START: 01/30/91	1230 STOP: 00/00/00
CASE NO.: 15779			O. NO.: AA72	
UG/KG		SAS NO.:	ANALYTICAL RESULTS	
12U CHLOROMETHANE			12U 1,2-DICHLOROPROPANE	
12U BROMOMETHANE			12U CIS-1,3-DICHLOROPROPENE	
12U VINYL CHLORIDE			12U TRICHLOROETHENE (TRICHLOROETHYLENE)	
12U CHLOROETHANE			12U 1,1-BROMOCHLOROMETHANE	
60U METHYLENE CHLORIDE			12U 1,1,2-TRICHLOROETHANE	
12U ACETONE			12U BENZENE	
12U CARBON DISULFIDE			12U TRANS-1,3-DICHLOROPROPENE	
12U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)			12U BROMOFORM	
12U 1,1-DICHLOROETHANE			12U METHYL ISOBUTYL KETONE	
12U 1,2-DICHLOROETHENE (TOTAL)			12U METHYL BUTYL KETONE	
12U CHLOROFORM			12U TETRACHLOROETHENE (TETRACHLOROETHYLENE)	
12U 1,2-DICHLOROETHANE			12U TOLUENE	
12U MÉTHYL ETHYL KETONE			12U CHLOROBENZENE	
12U 1,1,1-TRICHLOROETHANE			12U ETHYL BENZENE	
12U CARBON TETRACHLORIDE			12U STYRENE	
12U BROMODICHLOROMETHANE			12U TOTAL XYLENES	
			19 PERCENT MOISTURE	

REMARKS

REMARKS

FOOTNOTES

*-AVERAGE VALUE *N-A-NOT ANALYZED *N/AI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268	SAMPLE NO. 54457	SAMPLE TYPE: SOIL	PROG ELEM: NSF	COLLECTED BY: G. BEINFIELD
SOURCE: DICKSON CO. LF			CITY: DICKSON	ST: TN
STATION ID: TB-015			COLLECTION START: 01/28/91 1300	STOP: 00/00/00
CASE NO.: 15773	SAS NO.:	O. NO.: AAS1		
UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS	
14U CHLOROMETHANE		14U 1,2-DICHLOROPROPANE		
14U BROMOMETHANE		14U CIS-1,3-DICHLOROPROPENE		
14U VINYL CHLORIDE		14U TRICHLOROETHENE (TRICHLOROETHYLENE)		
14U CHLOROETHANE		14U DIBROMOCHLOROMETHANE		
30U METHYLENE CHLORIDE		14U 1,1,2-TRICHLOROETHANE		
14U ACETONE		14U BENZENE		
14U CARBON DISULFIDE		14U TRANS-1,3-DICHLOROPROPENE		
14U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)		14U BROMOFORM		
14U 1,1-DICHLOROETHANE		14U METHYL ISOBUTYL KETONE		
14U 1,2-DICHLOROETHENE (TOTAL)		14U METHYL BUTYL KETONE		
14U CHLOROFORM		14U TETRACHLOROETHENE (TETRACHLOROETHYLENE)		
14U 1,2-DICHLOROETHANE		14U 1,1,2,2-TETRACHLOROETHANE		
14U METHYL ETHYL KETONE		14U TOLUENE		
14U 1,1,1-TRICHLOROETHANE		14U CHLOROBENZENE		
14U CARBON TETRACHLORIDE		14U ETHYL BENZENE		
14U BROMODICHLOROMETHANE		14U STYRENE		
		14U TOTAL XYLENES		
		28 PERCENT MOISTURE		

REMARKS

REMARKS

FOOTNOTES

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*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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REFERENCES

1. NUS Corporation Field Logbook F4-2698 for Dickson County Landfill, TDD No. F4-9012-02. Documentation of offsite facility reconnaissance, December 17-18, 1990.
2. Potential Hazardous Waste Site Preliminary Assessment, (EPA Form 2070-12) and attachments for Dickson County Landfill. Filed by Todd Steen, Tennessee Department of Health and Environment, January 17, 1986.
3. Virgil Bellar, Dickson County Solid Waste Management, letter to Mark McWhorter, Tennessee Division of Solid Waste Management, April 23, 1986. Subject: Disposal of Spotleak at Dickson County Landfill.
4. Joe Walkup, Nashville Field Office-Division of Solid Waste Management, letter to Ollie Smith, Smith and Whitfield Phillips 66, April 17, 1990. Subject: Disposal of excavated soil from underground storage tank remediation at Dickson County Landfill.
5. Jim Mahoney, General Manager-Waste Management of Tennessee, letter to Joe Walkup, Nashville Field Office-Division of Solid Waste Management, September 7, 1988. Subject: Disposal of waste from Tekside Aluminum Foundry at Dickson County Landfill.
6. Ollie Smith, Smith and Whitfield Phillips 66, letter to Joe Walkup, Nashville Field Office-Division of Solid Waste Management, April 21, 1990. Subject: Contaminants and levels found in soil excavated around Phillips 66 underground storage tank.
7. U.S. Department of Commerce, Summary Population and Housing Characteristics, issued by Bureau of Census, April 1991, pp. 63, 69.
8. Michael W. Bradley, Ground Water in the Dickson Area of the Western Highland Rim of Tennessee, U.S.G. Water-Resources Investigations 82-4088 (Nashville, Tennessee, 1984).
9. U.S. Department of Commerce, Climatic Atlas of the United States (Washington, D.C.: GPO, June 1968) Reprint 1983, National Oceanic and Atmospheric Administration, pp. 43, 63.

10. U.S. Department of Commerce, Rainfall Frequency Atlas of the United States, Technical Paper No. 40 (Washington, D.C.: GPO, 1961), p. 93.
11. HALLIBURTON NUS Environmental Corporation Field Logbook F4-2727 for Dickson County Landfill, TDD No. F4-9012-02. Documentation of sampling investigation, January 28-30, 1991.
12. Bill Guledgy, Dickson County Soil and Water Conservation, telephone conversation with Gary Benfield, HALLIBURTON NUS Environmental Corporation, May 3, 1991. Subject: Recreation uses of the West Piney River.
13. Arthur M. Pipe, Ground Water in North-Central Tennessee, Water-Supply Paper 640 (Washington, D.C.: GPO, 1932).
14. Harold Norman, Norman Well Drilling, telephone conversation with Brant McCanless, NUS Corporation, February 27, 1990. Subject: Geology in Dickson area.
15. John A. Cherry and R. Allan Freeze, Groundwater (Englewood Cliffs, New Jersey: Prentice-Hall, Inc., 1979).
16. Archie Kimbro, West Piney Water Department, telephone conversation with Gary Benfield, HALLIBURTON NUS Environmental Corporation, April 22, 1991. Subject: Water distribution, source, and number of connections for their section of Dickson County.
17. Gary Benfield, HALLIBURTON NUS Environmental Corporation, letter to Phillip Williams, Sylvia, Tennessee City, Pond Water Utility District, May 23, 1991. Subject: Comments on question about the water system.
18. Bill Lankford, Turnbull Utilities, telephone conversation with Gary Benfield, HALLIBURTON NUS Environmental Corporation, April 22, 1991. Subject: Information about Turnbull Utilities water system.
19. Frederick A. Lowenheim, "Electroplating," Kirk-Othmer Encyclopedia of Chemical Technology, 3rd ed., Vol. 8 (New York: John Wiley & Sons, 1979).
20. G.L. Schneberger, "Metal Surface Treatments," Kirk-Othmer Encyclopedia of Chemical Technology, 3rd ed., Vol. 15 (New York: John Wiley & Sons, 1981).

OVERSIZED

DOCUMENT

APPENDIX B

SUMMARY OF GEOPHYSICAL METHODS

The following sections are from "Geophysical Techniques for Sensing Buried Wastes and Waste Migration" by Glaccum, R. A., and M. R. Noel, August, 1983, Technos, Inc., for Environmental Monitoring Systems Laboratory, ORD., USEPA, Las Vegas, Nevada.

ELECTROMAGNETICS (EM)*

The electromagnetic (EM) method provides a means of measuring the electrical conductivity of subsurface soil, rock, and ground water. Electrical conductivity is a function of the type of soil and rock, its porosity, its permeability, and the fluids which fill the pore space. In most cases the conductivity (specific conductance) of the pore fluids will dominate the measurement. Accordingly, the EM method is applicable both to assessment of natural geohydrologic conditions and to mapping of many types of contaminant plumes. Additionally, trench boundaries, buried wastes and drums, as well as metallic utility lines can be located with EM techniques.

Natural variations in subsurface conductivity may be caused by changes in soil moisture content, ground water specific conductance, depth of soil cover over rock, and thickness of soil and rock layers. Changes in basic soil or rock types, and structural features such as fractures or voids may also produce changes in conductivity. Localized deposits of natural organic, clay, sand, gravel, or saltrich zones will also affect subsurface conductivity.

*The term electromagnetic has been used in contemporary literature as a descriptive term for other geophysical methods, including GPR and metal detectors which are based on electromagnetic principles. However, this document will use electromagnetic (EM) to specifically imply the measurement of subsurface conductivities by low-frequency electromagnetic induction. This is in keeping with the traditional use of the term in the geophysical industry from which the EM methods originated. While the authors recognize that there are many electromagnetic systems and manufacturers, the discussion in this section is based solely on instruments which are calibrated to read in electrical conductivity units and which have been effectively and extensively used at hazardous waste sites. There is only one manufacturer of such instruments at the time of this writing.

Many contaminants will produce an increase in free ion concentration when introduced into the soil or ground water systems. This increase over background conductivity enables detection and mapping of contaminated soil and ground water at Hazardous Waste Sites (HWS), landfills, and impoundments. Large amounts of organic fluids such as diesel fuel can displace the normal soil moisture, causing a decrease in conductivity which may also be mapped, although this is not commonly done. The mapping of a plume will usually define the local flow direction of contaminants. Contaminant migration rates can be established by comparing measurements taken at different times.

The absolute values of conductivity for geologic materials (and contaminants) are not necessarily diagnostic in themselves, but the variations in conductivity, laterally and with depth, are significant. It is these variations which enable the investigator to rapidly find anomalous conditions.

Since the EM method does not require ground contact, measurements may be made quite rapidly. Lateral variations in conductivity can be detected and mapped by a field technique called profiling. Profiling measurements may be made to depths ranging from 0.75 to 60 meters. The data is recorded using strip chart and magnetic tape recorders. This continuous measurement allows increased rates of data acquisition and improved resolution for mapping small geohydrologic features. Further, recorded data enhanced by computer processing has proved invaluable in the evaluation of complex hazardous waste sites. The excellent lateral resolution obtained from EM profiling data has been used to advantage in efforts to outline closely-spaced burial pits, to reveal the migration of contaminants into the surrounding soil, and to delineate fracture patterns.

Vertical variations in conductivity can also be detected by the EM method. A station measurement technique called sounding is employed for this purpose. Data can be acquired from depths by combining results from a variety of EM instruments, each requiring different field application techniques. Other EM systems are capable of sounding to depth of one-thousand feet or more, but have not yet been used at HWS and are not adaptable to continuous measurements.

Profiling is the most cost-effective use of the EM method. Continuous profiling can be used in many applications to increase resolution, data density, and permit total site coverage at critical sites.

At HWS, applications of EM can provide:

- Assessment of natural geohydrologic conditions;
- Locating and mapping of burial trenches and pits containing drums and/or bulk wastes;
- Determination of flow direction in both unsaturated and saturated zones;
- Rate of plume movement by comparing measurement taken at different times;
- Locating and mapping of utility pipes and cables which may affect other geophysical measurements, or whose trench may provide a permeable pathway for contaminant flow.

Although there is available a wide variety of EM equipment, most of it is intended for geophysical exploration of mineral deposits. These units have not been used at HWS and do not provide a simple conductivity reading. This document discusses only those instruments which are designed and calibrated to read directly in units of conductivity.

Conductance is measured with electronic instrumentation consisting of a transmitter coil and receiver coil. The transmitter coil radiates an electromagnetic field which induces eddy currents in the earth below the instrument. Each of these eddy current loops, in turn, generates a secondary electromagnetic field which is proportional to the magnitude of the current flowing within that loop. A part of the secondary magnetic field from each loop is intercepted by the receiver coil and produces an output voltage which (within limits) is linearly related to subsurface conductivity. This reading is a bulk measurement of conductivity, e.g., the cumulative response to subsurface conditions ranging all the way from the surface to the effective depth of the instrument.

The sampling depth of EM equipment is related to the instrument's coil spacing. Instruments with coil spacings of one, four, ten, twenty, and forty meters are commercially available. The nominal sampling depth of an EM system is taken to be approximately 1.5 times the coil spacing.

The EM sounding method can rarely identify more than two or three layers with reasonable confidence. The greater the contrast in the conductivity values of each layer, the better the results. Often, the more detailed resistivity sounding method is used to complement EM profiling data.

The results of sounding analysis are usually presented as a vertical section, in which the conductivity layers are identified as a function of depth. The analyst may be able to correlate these layers to geohydrologic units believed to exist at the site.

Although the EM technique can be used for profiling or sounding, profiling is the most effective use of the EM method. Profiling makes possible the rapid mapping of subsurface conductivity changes, and the location, delineation, and assessment of spatial variables resulting from changes in the natural setting or from many contaminants.

EM is a very effective reconnaissance tool. The use of qualitative non-recorded data can provide initial interpretation in the field. If site conditions are complex, the use of a high-density survey grid, continuously-recording instruments, and computer processing may be necessary, in order to properly evaluate subsurface conditions. When continuously-recording instruments are used, total site coverage is feasible. More quantitative information can be obtained by using conductivity data from different depth ranges. At present, three different systems must be used to acquire data from 0.75 to 60 meters. Very often, however, data from two standard depths, e.g. six and fifteen meters, is adequate to furnish depth information.

Capabilities

- The EM profile method permits rapid data acquisition, resulting in high-density and high-resolution surveys.
- Profiling data may be acquired from various discrete depths, ranging from 0.75 meters to 60 meters.
- Continuously-recording instruments (to fifteen meter depth) can increase survey speed, density, and resolution permitting total site coverage, if required.
- EM reads directly in conductivity units ($\mu\text{m/m}$) permitting use of raw data in the field, and correlation to specific conductance of ground water samples.
- EM can map local and general changes in the natural geohydrologic setting.
- EM can detect and measure the boundaries of a conductivity plume.
- Direction of plume flow can be determined from an EM conductivity map.
- EM measurements taken at different times can provide the means to compute movement rates of conservative contaminants.
- EM can detect and map burial pits and trenches of both bulk and drummed wastes.
- EM can detect and map the location of buried metallic utility lines.

Limitations

- EM has less sounding (vertical) resolution than the resistivity method due to its limited number of depth intervals.
- The acquisition of data from depths of 0.75 to 60 meters requires the use of three different EM systems.
- Continuous data can be obtained only to depths up to approximately fifteen meters.
- An EM measurement is influenced by the shallower materials more than the deeper ones; this must be considered when evaluating the data.
- EM measurements become non-linear in zones of very high conductivity.
- The EM method is susceptible to noise from a number of sources, including natural atmospheric noise, powerlines, radio transmitters, buried metallic trash, pipes, cables, nearby fences, vehicles, and buildings.

MAGNETOMETER

Magnetic measurements are commonly used to map regional geologic structure and to explore for minerals. They are also used to locate pipes and survey stakes or to map archeological sites. They are commonly used at HWS to locate buried drums and trenches.

A magnetometer measures the intensity of the earth's magnetic field. The presence of ferrous metals creates variations in the local strength of that field, permitting their detection. A magnetometer's response is proportional to the mass of the ferrous target. Typically, a single drum can be detected at distances up to six meters, while massive piles of drums can be detected at distances up to twenty meters or more.

Some magnetometers require the operator to stop and take discrete measurements; other instruments permit the acquisition of continuous data as the magnetometer is moved across the site. This continuous coverage is much more suitable for high resolution requirements and the mapping of extensive areas.

The effectiveness of a magnetometer can be reduced or totally inhibited by noise or interference from time-variable changes in the earth's field and spatial variations caused by magnetic minerals in the soil, or iron and steel debris, ferrous pipes, fences, buildings, and vehicles. Many of these problems can be avoided by careful selection of instruments and field techniques.

At HWS, magnetometers may be used to:

- Locate buried steel containers, such as 55-gallon drums;
- Define boundaries of trenches filled with ferrous containers;
- Locate ferrous underground utilities, such as iron piles or tanks, and the permeable pathways often associated with them;
- Select drilling locations that are clear of buried drums, underground utilities, and other obstructions.

A magnetometer measures the intensity of the earth's magnetic field. Variations in this field may be caused by the natural distribution of iron oxides within the soil and rock or by the presence of buried iron or steel objects. (The magnetometer does not respond to nonferrous metals such as aluminum, copper, tin, and brass).

The earth's magnetic field behaves much as if there were a large bar magnet embedded in the earth. Although the earth's field intensity varies considerably throughout the United States, its average value is approximately 50,000 gammas.* The angle of the magnetic field with respect to the earth's surface also varies. In the U.S., this angle of inclination ranges approximately sixty to seventy-five degrees from the horizontal.

The intensity of the earth's magnetic field changes daily with sunspots and ionospheric conditions which can cause large and sometimes rapid variations. With time, these variations produce unwanted signals (noise) and can substantially affect magnetic measurements.

If the magnetic properties of the soil and rock were perfectly uniform, there would be no local magnetic anomalies; however, a concentration of natural iron minerals, or a buried iron object, will cause a local magnetic anomaly which can be detected at the surface.

Typical magnetic anomalies at HWS will range from one to hundreds of gammas for small discrete targets, depending on their depth. Massive piles of buried drums will result in anomalies of from one-hundred to one-thousand gammas or more.

*The unit of magnetic measurement is the gamma. Recently, the gamma unit has been renamed the Nano Tesla. At this time, most instruments are still labeled in gammas, as are specification sheets, existing literature, and field data; hence all references to magnetic data in this document are expressed in gammas.

While several factors influence the response of a magnetometer, the mass of a buried target and its depth are the most important. A magnetometer's response is directly proportional to the mass of ferrous metal present and varies by one over the distance cubed ($1/d^3$) for total measurements. If a gradiometer is used, the response falls off even faster, as one over the distance to the fourth power ($1/d^4$). With sensors of equal sensitivity, the total field system provides the greater working range. Typically a single drum can be detected at distances up to six meters or more. There is a wide variety of magnetometers available commercially; specific performance is highly dependent upon the type of magnetometer and the field conditions. Theoretically, the number of drums may be calculated, however, such results should be considered only approximations because of the number of variables associated with targets, site conditions, and calculations. Actual results may vary considerably.

A magnetometer with continuous recording capabilities can be used to produce a strip chart of the field data, which is helpful in assessing signal-to-noise ratio, anomaly shape, target location, and provides a means of exercising quality control over field data. This continuous coverage is much more suitable for high-resolution requirements and the mapping of extensive areas.

The effectiveness of a magnetometer can be reduced or totally inhibited by noise or interference from time-variable changes in the earth's field and spatial variations caused by magnetic minerals in the soil, or iron and steel debris, ferrous pipes, fences, buildings, and vehicles. Many of these problems can be avoided by careful selection of instruments and field techniques.

Capabilities

- Magnetometers respond to ferrous metals (iron or steel) only.
- Individual drums can be detected at depths up to six meters.
- Large masses of drums can be detected at depths of six to twenty meters.
- Magnetometers can provide a greater depth range than metal detectors.
- Interpretation of their data may be used to provide estimates of the number and depth of buried drums.
- They can provide a continuous response along a traverse line.
- They may be mounted on vehicles for coverage of a large site.

Limitations

- In general, magnetometers are susceptible to noise from many different sources, including steel fences, vehicles, buildings, iron debris, natural soil minerals, and underground utilities.
- Low cost units are limited in depth range (but their limitations make them insensitive to many of the above sources of noise).
- Total field instruments are also sensitive to fluctuations in the earth's magnetic field which can seriously affect data.
- Data is of limited use in determining the number and depth of targets.
- Complex site conditions may require the use of highly skilled operators, special equipment, and the recording and processing of data, along with skilled interpretation.

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SOIL GAS SURVEY METHOD

SURVEY OF SOIL GAS FOR ORGANIC VAPORS

1.0 SCOPE AND APPLICATION

1.1 Soil gas sampling and/or analysis is a technique useful to rapidly survey for chemical vapors in soil. A wide variety of sampling and analytical techniques may be applied to soil gas, depending on the user's objectives and available equipment. This method specifically addresses only the use of direct-reading organic vapor instruments. Similar techniques may be useful for inorganic vapors and collection of samples for subsequent analysis by other methods.

2.0 SUMMARY OF METHOD

2.1 To create a hole in the soil, a solid steel probe is driven into soil with a slide hammer attachment. The solid probe is then removed and a hollow, perforated sampling probe is inserted into the hole. Soil gas can then be drawn from the sampling probe, into sample collection apparatus, or into a direct-reading instrument.

3.0 INTERFERENCES

3.1 Contamination of sampling equipment can result in falsely elevated results. Equipment should undergo appropriate decontamination procedures. Sampling equipment blank analyses should be run to confirm absence of interferences.

3.2 Users must remain aware of limitations of analytical technique and equipment. Most direct-reading total organic vapor instruments vary widely in their response to different compounds. A typical example is methane, a natural product (especially in landfills), is detected by FID, but not by PID.

3.3 Results of soil gas techniques are dependent on numerous (mostly uncontrollable) factors including temperature, humidity, barometric pressure, soil composition and porosity. There is no simple relationship between measurements of soil gas and such traditional media such as soil and groundwater concentrations. Generally, soil gas measurements are directly comparable only to other soil gas measurements made under the same conditions, in the same area, at about the same time. Extreme conditions of tightly-packed or moisture-saturated soil may preclude soil gas techniques altogether.

4.0 APPARATUS AND MATERIALS

Note that listings in this section reflect equipment used at PIT 4, and variations may be appropriate, if suitability for the required analysis is demonstrated.

4.1 Solid soil probe: 3 ft x 1/2 inch solid steel bar, with pointed 9/16 inch entry tip and other end threaded to fit slide hammer (Item 4.2 below). (Art's Manufacturing & Supply, Catalog No. EXT-TP, or similar.)

4.2 Slide hammer: Threaded to fit solid soil probe, approx. 9 lb. (Art's Manufacturing & Supply, Catalog No. H/A, or similar.)

4.3 Threaded extensions (optional): Useful to extend depth of solid soil probe.

4.4 Hollow sampling tube: Stainless steel tubing, 1/2 inch outside diameter by 3 ft (length optional). Bottom one-foot section is perforated with approximately 40 holes, 1/4 inch in diameter. Top end is fitted with appropriate union and/or adapters for sampling equipment. (e.g., for 1/8 inch tubing: 1/8 inch x 1/2 inch reducing union.)

4.5 Appropriate sampling or analysis equipment: May be selected to meet specific project objectives, if appropriate performance is demonstrated. Direct-reading instruments found useful for total organic vapors are listed below:

4.5.1 Photo-ionization detectors (PID): Selective for compounds with ionization potentials less than the detector lamp -- no response to methane. No support gases required.

4.5.1.1 Photovac TIP (Total Ionizables Present): Compact, one-piece unit. Lamps easily changed. Operation for over 4 hours requires external battery pack.

4.5.1.2 hnu HW-101: Two-piece unit, somewhat larger than TIP. Different lamps require additional probes. Battery life 8 - 10 hours. Note that Model PI-101 is probably not suitable, because the sample is aspirated by a small fan, rather than a pump.

4.5.2 Flame ionization detector (FID): Near-universal detection of organic compounds, including methane. Requires hydrogen gas.

4.5.2.1 Foxboro OVA (Organic Vapor Analyzers, various models): Air to support flame is drawn from sample stream -- lack of oxygen in soil gas often

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extinguishes flame. Built-in GC can be a useful option. Requires periodic (8 hours) refilling with hydrogen gas.

4.5.3 Volumetric ware and syringes (optional): As required, to prepare calibration standards and dilutions.

5.0 REAGENTS

5.1 Calibration and performance verification: Specific requirements will vary with instrumentation and project objectives. Typical requirements for most cases are listed below:

5.1.1 Air, Ultra-zero grade: To calibrate and/or verify instrument zero. Lesser grades, even clean ambient air, may appropriate in some cases.

5.1.2 Calibration mixtures: Specific requirements will vary with instrumentation and project objectives. Instrument manufacturers typically specify and/or supply calibration mixtures for their instruments. If project objectives target a specific compound, it may be necessary to obtain or prepare custom mixtures. At the beginning of a project, it may be advisable to obtain or prepare three calibration mixtures:

5.1.2.1: 1 - 2 times the detection limit or action level

5.1.2.2: Midway between the action or detection limit and the instrument's maximum limit

5.1.2.3: Near the maximum of the instrument's range

These will likely be custom mixtures or dilutions prepared by the analyst.

5.2 Hydrogen (99.999%, Ultra-high purity): For FID.

6.0 SAMPLE STORAGE

6.1 This method specifically addresses only real-time, direct-reading techniques. The analyst is advised that the stability of trace level gas mixtures is not well characterized, is highly variable, and dependent upon the specific mixture and container composition. Samples should be analyzed "as soon as possible". Stored samples are subject to losses and/or

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contamination from ambient air. Samples held over 24 hours may be suspect.

7.0 PROCEDURE

7.1 This procedure presupposes that all equipment has been properly decontaminated and stored prior to testing.

7.2 Calibration:

7.2.1 Daily (minimum):

7.2.1.1 Startup: Zero and calibrate the instrument, according to manufacturer's instructions or FIT 4 SOP.

7.2.2.2 Drift check (at conclusion of testing): The stability of the instrument calibration must be verified at the end of each daily testing period. Analyze calibration standard and calculate drift (percent difference) as follows:

$$\text{Percent Difference} = \frac{R_1 - R_2}{R_1}$$

where:

R₁ = Initial instrument response (daily startup)

R₂ = Subsequent instrument response
(daily, at conclusion of testing)

If the response varies more than +/-20%, flag the data as questionable, and note apparent bias. (Or recalibrate the instrument and reanalyze all samples analyzed since the last successful calibration or check.)

7.2.2 (Optional) Start of project (or weekly minimum): Perform startup calibration as in 7.2.2.1 above. Prepare and analyze the calibration standards described in Section 5.1 above (zero plus three concentration levels). Tabulate instrument responses against standard concentrations, and calculate and tabulate calibration factors as follows:

$$\text{Calibration factor (CF)} = \frac{\text{Instrument response}}{\text{Standard concentration}}$$

These results can be used to prepare a calibration curve. If the percent relative standard deviation (%RSD) is less than 20% over the working range, linearity can be assumed,

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and the average calibration factor (CF) can be used in place of the calibration curve.

7.3 Sampling system blanks: Sampling equipment must be demonstrated to be free of interferences affecting the test. At least 10% of the hollow sampling probes should be sampled (via direct-reading instrument or sample collection device) in clean ambient air with readings recorded as "Sampling system blank". Positive readings (above ambient air background) should be rectified by appropriate decontamination. Otherwise, soil gas readings less than 2 to 10 times blank values are suspect as false positive readings, due to contamination.

7.4 Probe installation

7.4.1 Attach solid probe to slide hammer. Tighten securely with wrenches to avoid damage to threads. Drive solid probe into soil to the desired depth. (Extensions may be used to extend depth.) Remove solid probe from hole.

7.4.2 Install hollow sampling probe. Simply insert the probe into hole and tamp soil around the probe at the surface, to minimize intrusion of ambient air.

7.5 Sample collection and/or analysis: Attach sampling or analysis equipment, using appropriate fittings to preclude leaks. Operate pump for sufficient period to purge ambient air from probe. When using a direct-reading instrument, it is likely that the reading will rapidly peak, then level off or slowly decay. It is suggested that the peak reading be recorded, along with any observed steady-state reading. When collecting a sample for later analysis (not using a direct-reading instrument), use low flow rates (0.1 - 0.5 L/min, consistent with sampling device), and purge 3 - 5 probe volumes before attaching the actual sample collection device.

7.6 Calculations:

7.6.1 Generally, the readings from direct-reading instruments are used without calculation or correction. If the results of the optional 3-point calibration show non-linear response, results should be corrected using the calibration curve.

7.6.2 If the target compound is known to be different than the compound for which the instrument was calibrated, it is possible to estimate concentrations of the target compound, using relative sensitivities. A table of conversion factors or relative sensitivities is generally available from the instrument manufacturer.

8.0 QUALITY CONTROL

8.1 Section 7.2 specifies calibration procedures. It requires that the %RSD vary by less than 20% when comparing calibration factors to determine if the optional three-point calibration curve is linear. It also sets a limit of +/-20% when comparing drift (end-of-day) checks versus the initial daily calibration. If the limit is exceeded, the instrument must be recalibrated before continued use, and previously-analyzed samples must be reanalyzed or flagged as suspect.

8.2 Section 7.3 requires analysis of sampling system blanks.

8.3 In general, it is advisable to determine background conditions by sampling an area believed to free from contamination.

9.0 METHOD PERFORMANCE

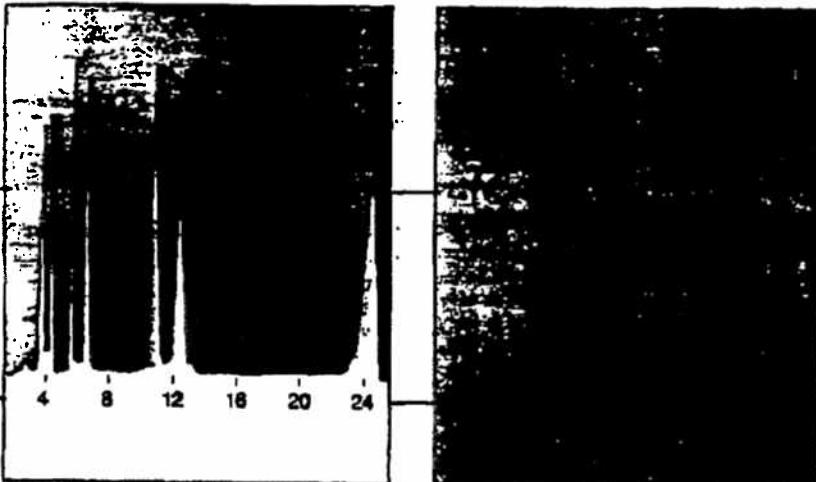
9.1 Precision, accuracy, representativeness, comparability, and completeness of soil gas survey results are highly variable and dependent on many uncontrollable factors, including soil conditions and specific target analytes. Complete, general characterization of method performance under all conditions is probably not possible.

10.0 REFERENCES

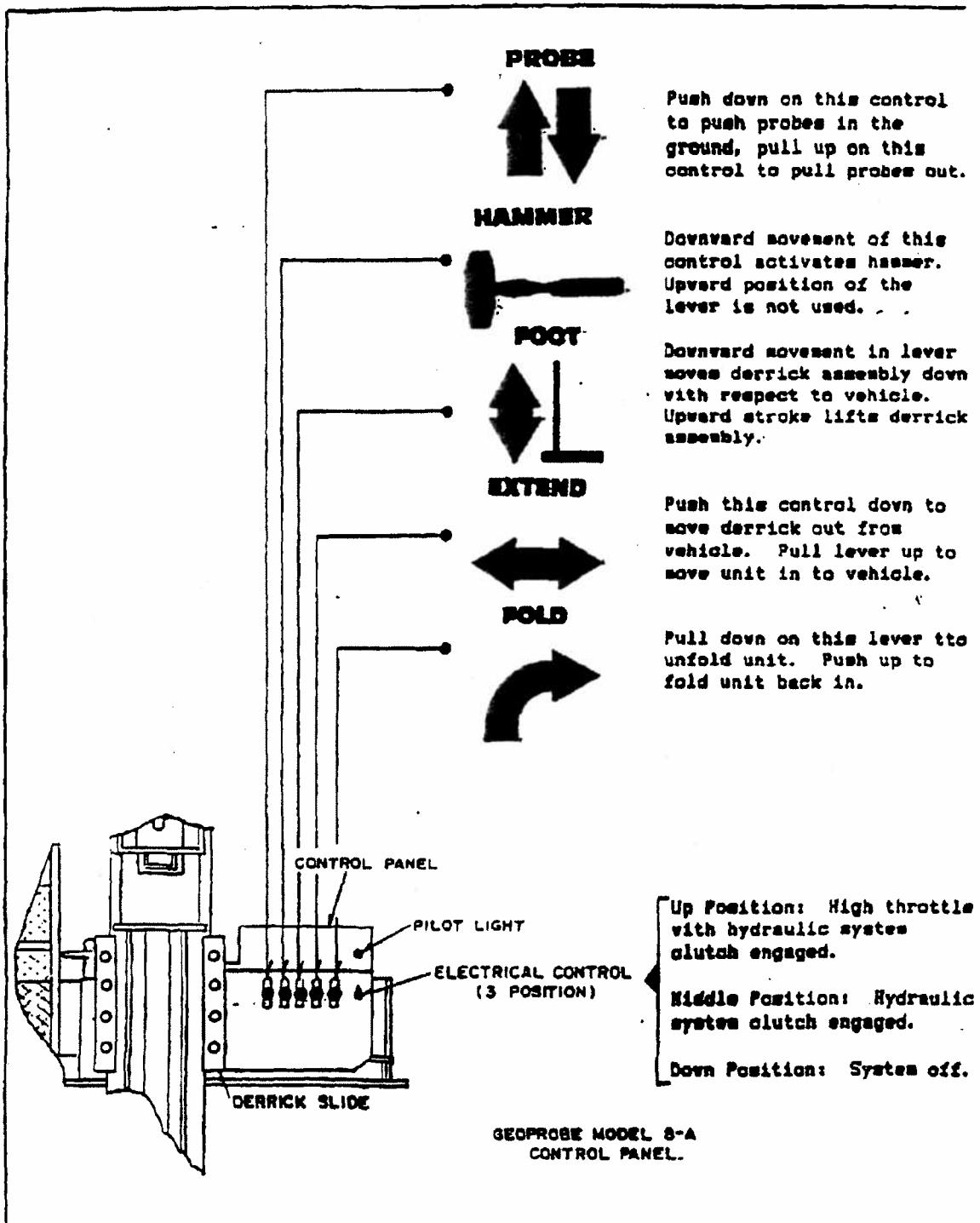
1. Soil Gas Sensing for Detection and Mapping of Volatile Organics, EPA/600/R-87/036, August 1987.

Geoprobe

SOIL PROBING EQUIPMENT



**For Soil Vapor, Soil Core,
and Groundwater Sampling Applications**



DRAWN	REVISION	APPROVED	DATE	REVISED	DATE
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GEOPROBE MODEL 8-K
OPERATION SAFETY CAUTIONS

1. Always take vehicle out of gear and set emergency brake before engaging remote ignition.

CAUTION: 2. If vehicle is parked on a loose or soft surface do not fully raise rear of vehicle with probe foot, as vehicle may fall or move, causing injury.

3. Always EXTEND the probe unit out from the vehicle and deploy the FOOT to clear vehicle roof line before folding the probe unit out.

4. Operators should wear OSHA approved steel toed shoes and keep feet clear of probe FOOT.

CAUTION: 5. One person only should operate the probe machine and the assembly - disassembly of probe rods and accessories.

6. Never place hands on top of a rod while it is under the machine.

7. Turn off the hydraulic system while changing rods, inserting the hammer anvil, or attaching accessories.

8. Operator must stand to the control side of the probe machine, clear of probe foot and mast, while operating controls.

9. Wear safety glasses at all times during the operation of this machine.

10. Never exert down pressure on the probe rod so as to lift the machine base over six inches off the ground

CAUTION: 11. Never exert down pressure on a probe rod so as to lift the rear tires of the vehicle off the ground.

12. Always remove the hammer anvil or other tool from the machine before folding the machine to the horizontal position.

CAUTION: 13. The vehicle catalytic converter is hot and may present a fire hazard when operating over dry grass or combustibles.

14. Geoprobe operators must wear ear protection. OSHA approved ear protection for sound levels exceeding 85 dba is recommended.

15. The location of buried or underground utilities and services must be known before starting to drill or probe.

16. Shut down the hydraulic system and stop the vehicle engine before attempting to clean or service the equipment.

CAUTION: 17. Accidental engagement of this machine may cause injury.

GEOPROBE MODEL 8-M
MACHINE MAINTENANCE

CHECK THE HYDRAULIC FLUID RESERVOIR LEVEL AT THE BEGINNING OF EACH OPERATING DAY, MAINTAIN THE OIL LEVEL WITHIN ONE-HALF INCH OF THE COLD FILL LEVEL ON THE DIP STICK. APPROPRIATE OILS FOR FILLING ARE LISTED IN THIS MANUAL.

GREASE SHOULD BE APPLIED TO THE DERRICK SLIDE (TWO ZIRCKS ON EACH SIDE) AND THE DERRICK END OF THE FOLD CYLINDER (ONE FITTING) ON A WEEKLY BASIS.

CHECK THE OIL COOLING FAN EACH DAY AND MAKE SURE THAT IT IS OPERATING PROPERLY.

THIS MACHINE VIBRATES! TIGHTEN BOLTS AND HYDRAULIC FITTINGS AT LEAST MONTHLY.

KEEP TOOL THREADS CLEAN. WIRE BRUSH THEM TO REMOVE DIRT AFTER EVERY USE.

Training Manual

A. STEP BY STEP PROCESS FOR GATHERING SOIL VAPOR SAMPLES.

I. Positioning Geoprobe

- a) Back carrier van or pick-up to desired probing location and set park brake.
- b) Activate unit and use EXTEND control and foot cylinder to laterally extend probing unit.
NOTE: CHECK FOR CLEARANCE AT ROOF OF VEHICLE BEFORE UNFOLDING GEOPROBE
- c) Use the FOLD and FOOT controls to place unit to exact probing spot.
 1. Adjust probe axis to perpendicular and put carrier vehicle weight on probe unit.
 2. When probe axis is perpendicular to ground surface, probing is ready to begin.

II. Drilling (concrete, asphalt, etc)

- a) Insert carbide-tipped drill bit into hammer.
- b) Activate HAMMER ROTATION CONTROL by turning counter-clockwise. (This allows drill bit to spin when HAMMER and PROBE controls are activated).
- c) Use HAMMER CONTROL to activate rotation.
- d) When surface has been penetrated, turn knob clockwise.

IMPORTANT NOTE: BE SURE TO SHUT OFF THE ROTARY ACTION BEFORE DRIVING PROBE RODS.

III. Probing

- a) Insert hammer anvil in hammer
- b) Screw drive cap on end of probe rod.
- c) Screw expendable point holder onto other end of first probe rod.
- d) Slip expendable drive point into point holder.
- e) Activate hydraulics and start to probe
 1. Probe rods must remain parallel to probe cylinder shaft while probing.
 2. Use HAMMER CONTROL if unable to reach desired depth with PROBE control.

IMPORTANT NOTE: KEEP RODS SCREWED TIGHT WHILE HAMMERING!

- f) Continue probing to desired depth.
 1. If anticipated depth is more than three feet, screw another with drive cap into penetrated rod.
 2. Continue to screw rods together as probing continues until desired depth is reached.

IMPORTANT NOTE: DEACTIVATE HYDRAULICS WHILE CHANGING RODS

IV: Gathering Vapor Samples

- a) Remove hammer anvil from hammer
 - b) Screw on pull cap to end of probe rod.
 - c) Retract rod approximately 6" - 12".
 1. Retraction of rod disengages expendable drive point holder and allows for soil vapor to enter rod.
 - d) Unscrew pull cap and replace with gas sampling cap.
 1. Cap is furnished with barbed hose connector
 - e) Connect vacuum hose to barbed connector
- IMPORTANT: SHUT ENGINE OFF BEFORE TAKING SAMPLE
(Exhaust fumes can cause faulty sample data)
- f) Turn vacuum pump on and place desired vacuum pressure in vacuum tank.
 - g) Open line control valve.
 1. For each rod used allow for 300 (1) of volume. Example: 3 rods used = 900 (1) = .900 on gauge.
 - h) After achieving sufficient purge volume close valve and allow sample line pressure gauge to return to 0.
 1. This returns sample train to atmospheric temperature.
 - i) The vapor sample can now be taken.
 1. Pinch hose near gas sampling cap to disallow any outside vapors to enter rods.
 2. Insert syringe needle into center of barbed hose connector and draw out vapor sample.
 3. Take sample to G.C. to be analyzed.
 4. Periodically drain the vacuum tank.

V. Retracting Probe Rods

- a) Activate Unit
- b) Unscrew gas sampling cap and replace with pull cap.
- c) Retract and unscrew rods.

NOTE: DEACTIVATE HYDRAULICS WHILE CHANGING RODS

VI. Folding Probing Unit into Carrier Van

- a) Use FOOT, FOLD, and EXTEND controls to load

B. MAINTENANCE

I. Cleaning Rods

- a) Rods must be kept clean
 1. GC will indicate dirty rods
 2. Alconox detergent and wire brush to wash rods and threads
 3. Distilled H₂O to rinse
 4. Let Dry

II. Machine Maintenance

- a) Check hydraulic fluid level at beginning of each operating day.
 - 1. Maintain oil within 1/2" of the cold fill level on dip stick.
 - 2. Hydraulic oil/filter should be changed after the first 250 hrs. of service and every 1000 hrs. of operation or one year of service thereafter.
 - 3. Check the oil cooling fan each day to make sure it is operating properly.
 - 4. Tighten bolts and hydraulic fittings at least monthly.
 - 5. Check hydraulic hoses for leaks.
- b) Keep syringes clean
- c) Grease Zerks
 - 1. Show zerk locations on machine
 - 2. Apply grease to Derrick slide (2 zerks on each side) weekly.
 - 3. Apply grease to Derrick end of the Fold Cylinder weekly.
- d) Broken Hose or Faulty Hydraulics.
 - 1. To manually fold probe unit, unscrew two hydraulic lines (hose #8 & 9 in operator's manual) that attach to FOLDING CONTROL on control Panel and fold unit in carrier van.
 - 2. Unscrew Telescope hydraulic lines (hose #10 & 11).
 - 3. Unit can now slide into carrier van by carefully reversing carrier van against a solid structure (tree, concrete wall, etc), until probing unit is completely in van.

POOR LEGIBILITY

**PORTIONS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 91-200 SAMPLE NO: 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF PROG ELEM: NEF COLLECTED BY: C.BEINFELD
STATION ID: SS01 CITY: DICKSON ST: TN
CASE NUMBER: 15773 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
SAS NUMBER: MD NUMBER: AAS2

MO/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
7.50	ANTIMONY	520	MANGANESE
	BARIUM	120	MERCURY
	BARIUM	873	NICKEL
TU	BERYLLIUM	500	POTASSIUM
TU	CADMIUM	100	SILVER
	CHLORINE	10	SODIUM
	CHLORINE	2200	THALLIUM
	CHLORINE	520	TIN
	CHLORINE	NA	VANADIUM
	CHLORINE	22	ZINC
	CHLORINE	24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*E-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA52 MD NO.: AA52

RESULTS UNITS PARAMETER
2.500 MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 61-288 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NUMBER: 16773 SAS NUMBER: MD NUMBER: AA70

MG/KG

	ANALYTICAL RESULTS
7.6UR	ANTIMONY
2	BARIUM
10	BERYLLIUM
20	CADMIUM
6U	CHROMIUM
6U	COBALT
2	COPPER
2	IRON
2	LEAD
2	MANGANESE
2	MOLYBDENUM
2	NICKEL
2	POTASSIUM
2	RUBIDIUM
2	SELENIUM
2	STRONTIUM
2	SODIUM
2	THALLIUM
2	TIN
2	VANADIUM
2	ZINC
2	PERCENT MOISTURE

MG/KG

	ANALYTICAL RESULTS
100	MANGANESE
.12U	MERCURY
.17U	NICKEL
.62U	POTASSIUM
.51UR	SELENIUM
.1U	STRONTIUM
.170U	SODIUM
.51U	THALLIUM
NA	TIN
.46	VANADIUM
.46	ZINC
21	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROG ELEM: NSP COLLECTED BY: G BEINFIELD
STATION ID: SS-02 CITY: DICKSON ST: TN
CASE NO.: 15773 SAS NO.: COLLECTION START: 01/30/91 1035 STOP: 00/00/00
D. NO.: AA70 MD NO: AA70

RESULTS UNITS PARAMETER
2.20U MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 91-208 SAMPLE NO: 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROC ELEM: NSF COLLECTED BY: G.BEINFIELD
STATION ID: SS-08 CITY: DICKSON ST: TN
CASE NUMBER: 15773 SAS NUMBER: COLLECTION START: 01/30/91 1230 STOP: 00/00/00
MD NUMBER: A472

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
9.2UR	ANTIMONY	290	MANGANESE
1.0UR	ARSENIC	.15U	MERCURY
1.0UR	BARIUM	8.5	NICKEL
1U	BERILLIUM	420	POTASSIUM
2U	CADMIUM	62UR	SELENIUM
1.0UR	CACO3	1.2U	SILVER
1.0UR	CAPTION	160U	SODIUM
5U	COBALT	.62U	THALLIUM
1.0UR	COPPER	NA	TIN
1.0UR	IRON	30	VANADIUM
1.0UR	ZINC	110	ZINC
		35	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA72 MO NO: AA72

RESULTS UNITS PARAMETER
2.70U MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. IF PROG ELEM: NSF COLLECTED BY: G. BEINFIELD
STATION ID: SB-01 CITY: DICKSON ST: TN
CASE NUMBER: 15773 SAS NUMBER: COLLECTION START: 01/28/91 1530 STOP: 00/00/00
MD NUMBER: AA53

MG/KG

ANALYTICAL RESULTS

MG/KG

ANALYTICAL RESULTS

7.2UR	ANTIMONY	67	ORGANICSE
2	BERYLLIUM	12U	MERCURY
TU	CERIUM	11	NICKEL
	CHROMIUM	350	POTASSIUM
	COPPER	10U	STRONTIUM
TU	CORAL T.	2U	SILVER
	IRON	130U	SODIUM
	LANTHANUM	.48U	THALLIUM
	MANGANESE	NA	TIN
	MOLYBDENUM	47	VANADIUM
	NEODYMIUM	36	ZINC
	NEON	16	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NL-INTERFERENCES *L-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA53 MD NO.: AA53

RESULTS UNITS PARAMETER
2.20U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 91-265 SAMPLE NO: 54447 SAMPLE TYPE: SOIL CROG ELEM: N/E COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TM COLLECTION START: 01/30/91 1125 STOP: 00/00/00
*** STATION ID: 58-02 MD NUMBER: AA71
*** CASE NUMBER: 15773 SAS NUMBER:

MG/KG ANALYTICAL RESULTS
7.8UR ALUMINUM
1.0UR ANTIMONY
1.0UR ARSENIC
1.0UR CADMIUM
1.0UR BERYLLIUM
1.0UR CADMIUM
1.0UR CHROMIUM
6.0UR COBALT
1.0UR COPPER
1.0UR LEAD
47.0UR MAGNESIUM

MG/KG ANALYTICAL RESULTS
120 MANGANESE
130 MERCURY
140 Manganese
570 POTASSIUM
10J SELENIUM
28 SILVER
260U SODIUM
.52U THALLIUM
NA TIN
57 VANADIUM
84 ZINC
23 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-ND) ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G. REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 58-02 COLLECTION START: 01/30/91 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: O. NO.: AA71 MD NO.: AA71

RESULTS UNITS PARAMETER
2.600 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-288 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG FLEM: NSF COLLECTED BY: G.BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA73

MG/KG ANALYTICAL RESULTS

6.90R ALUMINUM
2UJ ANTIMONY
2UJ ARSENIC
2UJ BISMUTH
23W BERYLLIUM
1U CADMIUM
1000 CALCIUM
20 COBALT
1000 COPPER
1000 IRON
1000 LEAD
630 MAGNESIUM

MG/KG ANALYTICAL RESULTS

0.1U MANGANESE
1U MERCURY
2.1U NICKEL
180 POTASSIUM
.46UR SELENIUM
.92U SILVER
610U SODIUM
.46U THALLIUM
NA TIN
1U VANADIUM
140 ZINC
13 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSP COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE NO.: 16773 SAS NO.: D. NO.: AA73 MD NO.: AA73

RESULTS UNITS PARAMETER
2.10U MG/KG CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: S4434 SAMPLE TYPE: SURFACEWATER
PROT. ELEM.: NSF COLLECTED BY: G BEINFIELD
COLLECTION LOCN: SW-01 DATE: 01/29/91 STATION: 1010
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER:
MD NUMBER: AASB

UG/L	
30U	ANTIMONY
2U	ARSENIC
1U	BERYLLIUM
2U	CAIUM
3U	CHROMIUM
3U	COBALT
3U	COPPER
1U	MANGANESE
1U	NIQUE
1U	PHOSPHORUS

* * * * * ANALYTICAL RESULTS

UG/L	MATERIAL
200	MERCURY
500	NICKEL
100	POTASSIUM
40	SELENIUM
10000	SILVER
20	SODIUM
10	THALLIUM
10	TIN
1000	ZINC

ANALYTICAL RESULTS

REMARKS

•••REMARKS•••

FOOTNOTES

*FOOTNOTES**
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/20/91 1010 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA58 MD NO.: AA58

RESULTS UNITS PARAMETER
120 ug/L CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM. NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA65

UG/L ANALYTICAL RESULTS
30U ANTIMONY
3U ARSENIC
1U BARIUM
2U CADMIUM
3U CALCIUM
3U CHROMIUM
20U COBALT
3U COPPER
10000 MAGNETITE

UG/L ANALYTICAL RESULTS
3200 MANGANESE
20U MERCURY
0U NICKEL
14000 POTASSIUM
1U SELENIUM
4U SILVER
88000 SODIUM
2U THALLIUM
NA TIN
2U VANADIUM
20U ZINC

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO: AA65

RESULTS UNITS PARAMETER
104 ug/l CYANIDE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 01-206 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BETFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SN-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA66

UG/L	ANALYTICAL RESULTS
400	ANTIMONY
20	ARSENIC
10	BERYLLIUM
20	CAADIUM
20	CALCIUM
30	CHROMIUM
30	COBALT
30	COPPER
600	IRON
30J	LEAD
200	MANGANESE

UG/L	ANALYTICAL RESULTS
50	MANGANESE
20U	MERCURY
0U	MILK
600U	POTASSIUM
10	SELENIUM
40	SILVER
1600U	SODIUM
20	THALLIUM
NA	TIN
20	VANADIUM
30J	ZINC

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSP COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: 1M
STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA66 MD NO.: AA66

RESULTS UNITS PARAMETER
100 UG/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEMA PROG ELEM: MSF COLLECTED BY: G.BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA62

UG/L ANALYTICAL RESULTS
30U ALUMINUM
30U ANTIMONY
3U ARSENIC
60 CADMIUM
1U BERYLLIUM
2U CADMIUM
6200 CALCIUM
3U CHROMIUM
20U COBALT
3U COPPER
1000 IRON
2000 LEAD
1000 MAGNESIUM

UG/L ANALYTICAL RESULTS
1600 MANGANESE
20U MERCURY
0U NICKEL
1500 POTASSIUM
2U SELENIUM
4U SILVER
4100U SODIUM
2U THALLIUM
NA TIN
20U VANADIUM
20U ZINC

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

***** SPECIFIED ANALYSIS DATA REPORT *****
*** PROJECT NO: 91-268 SAMPLE NO: 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AM62 MD. NO.: AM62
SAS NO.:

RESULTS UNITS PARAMETER
100 µg/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *S-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS. GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWMA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LT CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA60

* * * REMARKS * * *

REMARKS

FOOTNOTES
*A-AVERAGE VALUE
*K-ACTUAL VALUE
*M-MATERIAL NUMBER
*P-PAGE INDICATOR

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-208 SAMPLE NO: 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: O BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-05 COLLECTION START: 01/20/91 1110 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA60 MD NO.: AA60

RESULTS UNITS PARAMETER
EQ 0.00/L CYANIDE

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEIMFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AA68

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
30U	ANTIMONY	17	MANGANESE
2U	ARSENIC	.20U	MERCURY
2U	BARIUM	0U	NICKEL
1U	BERYLLIUM	4000	POTASSIUM
2U	CADMIUM	1U	SELENIUM
3U	CHROMIUM	4U	SILVER
3U	COBALT	12000	SODIUM
3U	COPPER	2U	THALLIUM
20U	IRON	NA	TIN
20U	LEAD	2U	VANADIUM
	MAGNESIUM	10UJ	ZINC

REMARKS

REMARKS

FOOTNOTES
 *A=ACTUAL VALUE *NA=NOT ANALYZED *N/A=INTERFERENCES *J=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *R=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO: 91-268 SAMPLE NO: 54444 SAMPLE TYPE: SURFACEWATER PROD ELEM: NSF COLLECTED BY: G.BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA68 MD NO: AA68

RESULTS UNITS PARAMETER
100 ug/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A=INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54430 SAMPLE TYPE: SOIL
SAMPLE DATE: 01/28/91 COLLECTED BY: G.BEINFELD
STATION ID: 5-01 CITY: JACKSON ST: TN
CASE NUMBER: 15773 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
SAS NUMBER: MD NUMBER: AAS4

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALY.
8 SUR	ANTIMONY	.320	MANGANESE
	BARSITE	.13U	MERCURY
10	BARIUM	9.5	NICKEL
1U	BERYLLOIUM	430	POTASSIUM
1U	CADMIUM	580U	SILVER
1U	CHROMIUM	11U	SODIUM
6U	COBALT	210U	THALLIUM
4U	COPPER	.56U	TIN
4000	IRON	NA	VANADIUM
4000	LEAD	43	ZINC
PERCENT	MAGNESIUM	160	
		29	PERCENT MOISTURE

REMARKS

REMARKS

•••FOOTNOTES•••

*FOOTNOTES**
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESO, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST. TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D NO.: AA54 MD NO.: AA54

RESULTS UNITS PARAMETER
2.304 MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 9-268 SAMPLE NO: 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AASS

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8.7UR	ANTIMONY	47	MANGANESE
DETUR	ARSENIC	12U	MERCURY
DETUR	BARIUM	6	NICKEL
1U	BERYLLIUM	1000	POTASSIUM
58U	CADMIUM	158UR	SELENIUM
1000	CADMIUM	12U	SILVER
5U	CHROMIUM	330U	SODIUM
DETUR	COBALT	58U	THALLIUM
DETUR	COBALT	NA	TIN
DETUR	COBALT	48	VANADIUM
DETUR	COBALT	34	ZINC
DETUR	WINGESTON	31	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: MSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AA55 MD NO.: AA55
*** SAS NO.:

RESULTS UNITS PARAMETER
2.60 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: C BEINFELD
 SURVEY DICKSON CO. LF CITY: DICKSON ST. TN
 STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00
 CASE NUMBER: 19773 SAS NUMBER: MD NUMBER: AA58

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8.2UR	ANTIMONY	.95	MANGANESE
1.1UR	ARSENIC	.13U	MERCURY
1.1UR	CHROMIUM	.64U	NICKEL
1.0	BENZILLIUM	.50U	POTASSIUM
1.0	CADMIUM	1.55UR	SELENIUM
1.0	CHALCOGEN	1.1U	SILVER
1.0	CHROMIUM	1.90U	SODIUM
1.0	COBALT	.55U	THALLIUM
1.0	LEAD	NA	TIN
1.0	IRON	41	VANADIUM
1.0	LEAD	27	ZINC
ABO	MANGANESE		PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *HAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

***** SPECIFIED ANALYSIS DATA REPORT *****
*** PROJECT NO: 91-288 SAMPLE NO: 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-03 COLLECTION START: 01/28/91 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA56 MD NO: AA56

RESULTS UNITS PARAMETER
2.50U MG/KG CYANIDE

***FOOTNOTES**
*A-AVERAGE VALUE *NA-NOT ANALYZED *N1-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG. ELEM: NSP COLLECTED BY: G. BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST. IN
*** STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA50

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
MG/KG		MG/KG	
9UR	ANTIMONY	800	IRON
		15U	MERCURY
		15-	NICKEL
		230	POTASSIUM
TU	BERYLLIUM	600R	SELENIUM
		1.2U	SILVER
		140U	SODIUM
		.60U	THALLIUM
		NA	TIN
		26	VANADIUM
		56	ZINC
		34	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NJ-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA59 MD NO.: AA59

RESULTS UNITS PARAMETER
2.600 MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *HAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF CITY: JACKSON ST TN
STATION ID: SP-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA64

MG/KG	ANALYTICAL RESULTS
12UR	ANTIMONY
10UR	ARSENIC
1U	BERYLLIUM
1U	CADMIUM
7U	CHROMIUM
7U	COPALT
2U	COPPER
1U	IRON
1U	MANGANESE

MG/KG	ANALYTICAL RESULTS
200	MANGANESE
150	MERCURY
100	MICRO
600	POTASSIUM
100	SELENIUM
150	SILICON
200	SODIUM
100	THALLIUM
NA	TIN
82+	VANADIUM
50	ZINC
50	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: MSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA84 MD NO.: AA64

RESULTS UNITS PARAMETER
3.80U MG/KG CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NI-INTERFERENCES •E-ESTIMATED VALUE •P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO: 01-266 SAMPLE NO: 54443 SAMPLE TYPE: SOIL PROC ELEM: NPF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: 50-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
*** CASE NUMBER: 15773 MO NUMBER: AAG7

*** MG/KG ANALYTICAL RESULTS

BUR ANTIMONY
BUL CADMIUM
BUL CHROMIUM
BUL COPPER
BUL IRON
BUL MAGNETITE
BUL MANGANESE
BUL MERCURY
BUL NICKEL
BUL POTASSIUM
BUL SELENIUM
BUL SILVER
BUL SODIUM
BUL THALLIUM
BUL TIN
BUL VANADIUM
BUL ZINC

MG/KG ANALYTICAL RESULTS
MANGANESE
MERCURY
NICKEL
POTASSIUM
SELENIUM
SILVER
SODIUM
THALLIUM
TIN
VANADIUM
ZINC
PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED; THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D NO: AA67 MD NO: AM67

RESULTS UNITS PARAMETER
2.500 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-[INTERFERENCES] *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *U-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*D-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 01-286 SAMPLE NO: 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON, LF PROC ELEM: NSF COLLECTED BY: G.BEINFIELD
STATION ID: 50-04 CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AA63

MG/KG

	ANALYTICAL RESULTS
B.SUR	ANTIMONY
CDR	CHROMIUM
CDR	COPPER
TU	BERILLIUM
TU	CADMIUM
CDR	CALCIUM
CDR	CHAMNIUM
BU	COBALT
CDR	IRON
CDR	MAGNESIUM

MG/KG

	ANALYTICAL RESULTS
	MANGANESE
	.460
	140
	MERCURY
	0
	600
	POTASSIUM
	.57UR
	SELENIUM
	.110
	SILVER
	1500
	SODIUM
	.57U
	THALLIUM
	NA
	TIN
	29
	VANADIUM
	.43
	ZINC
	29
	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA63 MD NO: AA63

RESULTS UNITS PARAMETER
2.70U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: C.BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: IN
 *** STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: MD NUMBER: AAG1

MG/KG	ANALYTICAL RESULTS	MG/KG	ANALYTICAL RESULTS
8.5UR	ANTIMONY	.100	MANGANESE
2.0J	ARSENIC	.14U	MERCURY
	BARIUM	2.6U	NICKEL
1.0	BERYLLIUM	200	POTASSIUM
.57U	CADMIUM	.57UR	SELENIUM
	CHALCOGEN	1.1U	SILVER
4.0	COBALT	160U	SODIUM
	COPPER	.57U	THALLIUM
	LEAD	NA	TITANIUM
	MANGANESE	84	VANADIUM
	MERCU	18	ZINC
	PERIOD	30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54437 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G. BEIMFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 1130 STOP: 00/00/00
CASE NO: 15773 SAS NO.: D. NO.: AA61 MD NO: AA61

RESULTS UNITS PARAMETER
2.501 MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

PROJECT NO: 01-286 SAMPLE NO: 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AA69

***** ANALYTICAL RESULTS *****

***** ANALYTICAL RESULTS *****

MG/KG	
140	MANGANESE
.14U	MERCURY
1.1U	MOLYBDENUM
330	POTASSIUM
.57U	SELENIUM
290U	SILVER
.57U	SODIUM
NA	THALLIUM
.23*	TIN
.40	VANADIUM
.50	ZINC
	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54445 SAMPLE TYPE: SOIL PROQ ELEM: NSP COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA60 MD NO.: AA68

RESULTS UNITS PARAMETER
2.500 MG/KG CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-286 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWATER PROG ELEMENT: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST. IN
 *** STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
 *** CASE NUMBER: 15773 MD NUMBER: AASO

*** UG/L ANALYTICAL RESULTS

47U	ALUMINUM
30U	ANTIMONY
2U	ARSENIC
5U	BARIUM
1U	BERYLLIUM
2U	CADMIUM
37U	CALCIUM
3U	CHROMIUM
4U	COBALT
3U	COPPER
4U	IRON
1000	MANGANESE
26U	MAGNESIUM

UG/L ANALYTICAL RESULTS

1U	MANGANESE
20U	MERCURY
9U	NICKEL
640U	POTASSIUM
1U	SELENIUM
4U	SILVER
250U	SODIUM
2U	THALLIUM
NA	TIN
2U	VANADIUM
30U	ZINC

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *WAI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L-LIMIT VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *A-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD. ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54427 SAMPLE TYPE: SURFACEWA PROD ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PB-01 COLLECTION START: 01/28/91 1300 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: MD NO: AA50

RESULTS UNITS PARAMETER
100 ug/l CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *H1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWATER PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 MD NUMBER: AA74

UG/L ANALYTICAL RESULTS
40U ANTIMONY
2U ARSENIC
2U BISMUTH
1U BERYLLIUM
2U CADMIUM
2U CHROMIUM
7U COBALT
10U COPPER
100P CRAD
400M MAGNESIUM

UG/L ANALYTICAL RESULTS
13D MANGANESE
200U MERCURY
0U NICKEL
2000 POTASSIUM
1U SELENIUM
4U SILVER
4100U SODIUM
2U THALLIUM
NA TIN
5U VANADIUM
120J ZINC

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA74 MD NO.: AA74

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES
•A-AVERAGE VALUE •NA-NOT ANALYZED •NI-INTERFERENCES •J-ESTIMATED VALUE •N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
•U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: IN
*** STATION ID: M-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
30U	ANTIMONY	2100	MANGANESE
2U	ARSENIC	20U	MERCURY
2U	BARIUM	29	NICKEL
2U	BERYLLIUM	870	POTASSIUM
2U	LEAD	10	SELENIUM
2U	CADMIUM	4U	SILVER
2U	CHROMIUM	2100U	SODIUM
30U	COBALT	24	THALLIUM
2U	COPPER	NA	TIN
2U	IRON	16	VANADIUM
1000U	LEAD	87J	ZINC
	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESO, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEV: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: MM-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AA75 MD NO.: AA75

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

03/14/91

METALS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
*** CASE NUMBER: 15773 MD NUMBER: AA57

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
47U	ALUMINUM	2U	MANGANESE
30U	ANTIMONY	20U	MERCURY
4U	ARSENIC	9U	NICKEL
8U	BARIUM	640U	POTASSIUM
1U	BERYLLIUM	1U	SELENIUM
2U	CADMIUM	4U	SILVER
1U	CHALCOGEN	1900U	SODIUM
39	CHROMIUM	2U	THALLIUM
3U	COBALT	NA	TIN
20U	IRON	2U	VANADIUM
1U	MANGANESE	230U	ZINC
5000U	MAGNESIUM		

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
**K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN **L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
**U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA57 MD NO.: AA57

RESULTS UNITS PARAMETER
120 ug/L CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/25/91

METALS DATA REPORT

PROJECT NO. 91-033 SAMPLE NO. 59953 SAMPLE TYPE: GROUNDWATER PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY, TN CITY: DICKSON ST: TN
STATION ID: DC-PW-01A, PRIVATE WELL COLLECTION START: 07/18/91 0945 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

2.5U SILVER
7.5U ARSENIC
NA BORON
1.2U BERYLLIUM
1.2U CADMIUM
2.5U COBALT
2.5U CHROMIUM
2.5U MOLYBDENUM
5.0U NICKEL
10U LEAD
7.5U ANTIMONY
10U SELENIUM
6.2U TIN
12U TELLURIUM
25U THALLIUM
2.5U VANADIUM
2.5U YTTRIUM
NA ZIRCONIUM
0.2U MERCURY
2.5U MANGANESE

MG/L ANALYTICAL RESULTS

4.8 CALCIUM
4.9 MAGNESIUM
0.017 IRON
1.7 SODIUM
0.50U POTASSIUM

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/25/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-B33 SAMPLE NO. 59955 SAMPLE TYPE: PRES BLANK PROG ELEM: NSF COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY, TN CITY: DICKSON ST: TN
STATION ID: DC-PB-01A PRES. BLANK COLLECTION START: 07/17/91 1500 STOP: 00/00/00

RESULTS UNITS PARAMETER
4.0U UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO: 91-268 SAMPLE NO: 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SD-04 COLLECTION START: 01/29/91 1145 STOP: 00/00/00
** CASE NO.: 15773 SAS NO.: D. NO.: AA63 MD NO: AA63

RESULTS UNITS PARAMETER
2.70U MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *INT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/28/91 1220 STOP: 00/00/00
CASE NO.: 16773 SAS NO.: D. NO.: AA64 MD NO.: AA64

RESULTS UNITS PARAMETER
3.80U MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA65 MD NO.: AA65

RESULTS UNITS PARAMETER
TOU UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA88 MD NO.: AA88

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA67 MD NO: AA67

RESULTS UNITS PARAMETER
2.504 MG/RG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *HAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
*** STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA68 MD NO.: AA68

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSTS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-08 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA69 MD NO.: AA69

RESULTS UNITS PARAMETER
2.504 MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA70 MD NO.: AA70 ***

RESULTS UNITS PARAMETER
2.20U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G. BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-02 COLLECTION START: 01/30/91 1125 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA71 MD NO.: AA71

RESULTS UNITS PARAMETER
2.60U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO., LF CITY: DICKSON ST: TN
** STATION ID: SB-O3 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
** CASE NO.: 15773 SAS NO.: D. NO.: AA73 MD NO: AA73

RESULTS UNITS PARAMETER
2.1OU MG/KG CYANIDE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NO.: 15778 SAS NO.: D. NO.: AA72 MD NO.: AA72

RESULTS UNITS PARAMETER
2.70U MG/KG CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
OK-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

03/14/91

SPECIFIED ANALYSIS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA74 MD NO: AA74

RESULTS UNITS PARAMETER
10U UG/L CYANIDE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/25/91

METALS DATA REPORT

*** PROJECT NO: 91-833 SAMPLE NO: 59055 SAMPLE TYPE: PRES BLANK PROG ELEM: NSF COLLECTED BY: GARY BENFIELD
*** SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
*** STATION ID: DC-PB-01A PRES. BLANK COLLECTION START: 07/17/91 1500 STOP: 00/00/00

UG/L	ANALYTICAL RESULTS	MG/L	ANALYTICAL RESULTS
2.5U	SILVER	0.12U	CALCIUM
7.5U	ARSENIC	0.025U	MAGNESIUM
NA	BORON	0.012U	IRON
2.5U	BARIUM	0.25U	SODIUM
1.2U	BISMUTH	0.50U	POTASSIUM
1.2U	CADMIUM		
2.5U	COBALT		
2.5U	CHROMIUM		
2.5U	COPPER		
2.5U	MOLYBDENUM		
5.0U	NICKEL		
10U	LEAD		
7.5U	ANTIMONY		
10U	SELENIUM		
6.2U	TIN		
2.5U	SERONTIUM		
12U	TELLURIUM		
2.5U	TITANIUM		
25U	THALLIUM		
2.5U	VANADIUM		
2.5U	YTTRIUM		
2.5U	ZINC		
NA	ZIRCONIUM		
0.2U	MERCURY		
50U	ALUMINUM		
2.5U	MANGANESE		

REMARKS

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
*** STATION ID: TS-01W COLLECTION START: 01/28/91 1300 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AA50

*** * * * * ANALYTICAL RESULTS

0.050UJ ALPHA-BHC
0.050UJ BETA-BHC
0.050UJ DELTA-BHC
0.050UJ GAMMA-BHC (LINDANE)
0.050UJ HEPTACHLOR
0.050UJ ALDRIN
0.050UJ HEPTACHLOR EPOXIDE
0.050UJ ENDOSULTAN I (ALPHA)
0.100UJ DIELDRIN
0.100UJ 4,4'-DDT (P,P'-DDT)
0.100UJ ENDOSULFAN II (BETA)
0.100UJ 4,4'-DDD (P,P'-DDD)
0.100UJ ENDOSULFAN SULFATE
0.100UJ 4,4'-DDT (P,P'-DDT)

0.500UJ METHOXYCHLOR
0.100UJ ENDRIN KETONE
0.100UJ ENDRIN DEHYDRO
0.050UJ CHLORDANE (TECH. MIXTURE) /1
0.050UJ GAMMA-CHLORDANE /2
0.050UJ ALPHA-CHLORDANE /2
5.00UJ TOXAPENE
1.00UJ PCB-1016 (AROCOLOR 1016)
1.00UJ PCB-1221 (AROCOLOR 1221)
2.00UJ PCB-1232 (AROCOLOR 1232)
1.00UJ PCB-1242 (AROCOLOR 1242)
1.00UJ PCB-1248 (AROCOLOR 1248)
1.00UJ PCB-1254 (AROCOLOR 1254)
1.00UJ PCB-1260 (AROCOLOR 1260)

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26,1984)

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-DC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-COMFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/28/91 1300 STOP: 00/06/00
 STATION ID: TB-01W

CASE NO.: 15773 SAS NO.: D. NO.: AAS0
 ug/l ANALYTICAL RESULTS ug/l ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
20U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
20U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL BUTYL KETONE
10U CALIFORMA	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U TOLUENE
10U MÉTHYL ETHYL KETONE	10U CHLOROBENZENE
10U 1,1,1-TRICHLOROETHANE	10U ETHYL BENZENE
10U CARBON TETRACHLORIDE	10U STYRENE
10U BROMODICHLOROMETHANE	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54456 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: IN COLLECTION START: 01/28/91 1300 STOP: 00/00/00
 STATION ID: TB-01W

CASE NO.: 15773 SAS NO.: D. NO.: AA50

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	PHENOL	50U	3-NITROANILINE
10U	BIS(2-CHLOROETHYL) ETHER	10U	ACENAPHTHENE
10U	2-CHLOROPHENOL	50U	2,4-DINITROPHENOL
10U	1,3-DICHLOROBENZENE	50U	4-NITROPHENOL
10U	1,4-DICHLOROBENZENE	10U	DIBENZOFURAN
10U	1,2-DICHLOROBENZENE	10U	2,4-DINITROTOLUENE
10U	2-METHYLPHENOL	10U	DIETHYL PHTHALATE
10U	2-(2-CHLOROISOPROPYLETHER	10U	4-CHLOROPHENYL PHENYL ETHER
10U	3,4-DICHLORO-4-METHYLPHENOL	10U	FLUORENE
10U	N,N-DITROSO-N'-PROPYLAMINE	50U	4-NITROANILINE
10U	HEXACHLOROBUTANE	10U	2,6-DI- <i>N</i> -NITROPHENOL
10U	NITROBENZENE	10U	M,N-DITROSO-N'PHENYLAMINE/DIPHENYLAMINE
10U	ISOPHORONE	10U	4-BROMOPHENYL PHENYL ETHER
10U	2-NITROPHENOL	50U	HEXACHLOROBENZENE (HOB)
10U	2,4-DIMETHYLPHENOL	10U	PENTACHLOROPHENOL
10U	BIS(2-CHLOROETHOXY) METHANE	10U	PHEMANTHRENE
10U	2,4-DICHLOROPHENOL	10U	ANTHRACENE
10U	1,2,4-TRICHLOROBENZENE	10U	CARBAZOLE
10U	NAPHTHENE	10U	DI- <i>N</i> -BUTYL PHTHALATE
10U	4-CHLOROBUTANE	10U	FLUORANTHENE
10U	HEXACHLOROBUTADIENE	10U	PERYLENE
10U	4-CHLORO-3-METHYLPHENOL	10U	BENZYL BUTYL PHTHALATE
10U	2-METHYLNAPHTHALENE	10U	3,3'-DICHLOROBENZIDINE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)	10U	BENZO(A)ANTHRACENE
10U	2,4,6-TRICHLOROPHENOL	10U	CHRYSENE
50U	2,4,5-TRICHLOROPHENOL	10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	2-CHLORONAPHTHALENE	10U	DI- <i>N</i> -OCTYL PHTHALATE
50U	2-NITROANILINE	10U	BENZO(I) AND/OR K)FLUORANTHENE
10U	DINITRO-PHTHALATE	10U	BENZO-A-PYRENE
10U	ACENAPHTHYLENE	10U	INDENO(1,2,3-CD) PYRENE
10U	2,6-DINITROTOLUENE	10U	DBENZO(A,H)ANTHRACENE
		10U	BENZO(GHI)PERYLENE

FOOTNOTES
 *A=REFERENCE VALUE *NA=NOT ANALYZED *N/A=INTERFERENCES *E=ESTIMATED VALUE *P=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 #U=MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 81-286 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON, LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: A457

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OU CHLOROMETHANE	1OU 1,2-DICHLOROPROPANE
1OU BROMOMETHANE	1OU CIS-1,3-DICHLOROPROPENE
1OU VINYL CHLORIDE	2OU TRICHLOROETHYLENE (TRICHLOROETHYLENE)
1OU CHLOROETHANE	1OU DIBROMOCHLOROMETHANE
1OU METHYLENE CHLORIDE	1OU 1,1,2-TRICHLOROETHANE
1OU ACETONE	1OU BENZENE
1OU CARBON DISULFIDE	1OU TRANS-1,3-DICHLOROPROPENE
1OU 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	1OU BROMOFORM
1OU 1,1-DICHLOROETHANE	1OU METHYL ISOBUTYL KETONE
1OU CHLOROFORM	1OU METHYL BIS(2-PHENYL)KETONE
1OU 1,2-DICHLOROETHANE	1OU TETRACHLOROETHENE (TETRACHLOROETHYLENE)
1OU MÉTHYL ETHYL KETONE	1OU 1,1,2,2-TETRACHLOROETHANE
1OU 1,1,1-TRICHLOROETHANE	1OU TOLUENE
1OU CARBON TETRACHLORIDE	1OU CHLOROBENZENE
1OU BROMODICHLOROMETHANE	1OU ETHYL BENZENE
	1OU STYRENE
	1OU TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
**-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN **-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
**U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-DC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/33 (B)

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 STOP: 00/00/00

** CASE NO.: 15773

SAS NO.:

P. NO : A457

UG/L ANALYTICAL RESULTS

10U PHENOL
 10U BIS(2-CHLOROETHYL) ETHER
 10U 2-CHLOROPHENOL
 10U 1,4-DICHLOROBENZENE
 10U 1,4-DINITROBENZENE
 10U 1,2-DICHLOROBENZENE
 10U 2-METHYLPHENOL
 10U 2,2'-CHLOROISOPROPYLETHER
 10U (3-AND/04-)METHYLPHENOL
 10U N-NITROSODI-N-PROPYLAMINE
 10U HEPTAFLUOROTHANE
 10U NITROBENZENE
 10U 150PHORON
 10U 2-NITROPHENOL
 10U 2,4-DIMETHYLPHENOL
 10U BIS(2-CHLOROETHOXYL) METHANE
 10U 2,4-DICHLOROPHENOL
 10U 1,2,4-TRICHLOROBENZENE
 10U NAPHTHALENE
 10U 4-CHLOROBENZALINE
 10U HEXACHLOROBUTADIENE
 10U 4-CHLORO-2-METHYLPHENOL
 10U 2-METHYLNAPHTHALENE
 10U HEXACHLOROCYCLOPENTADIENE (HCCP)
 10U 2,4,6-TRICHLOROPHENOL
 10U 2,4,5-TRICHLOROPHENOL
 10U 2-CHLORONAPHTHALENE
 10U 2,4,4,6-TETRAOXYBENZENE
 10U DIMETHYL PHthalate
 10U ACETAMINOPHENYLENE
 10U 2,6-DIMINIPROTOL HANZ

ANALYTICAL RESULTS

50U	3-NITROANILINE
100	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
100	DI BENZO FURAN
100	2-METHYL TOLUENE
100	DIETHYL PHthalate
100	4-CHLOROPHENYL PHENYL ETHER
100	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-6-DINITROPHENOL
100	N-NITROSO DI PHENYLAMINE/DIPHENYLAMINE
100	4-BROMOPHENYL PHENYL ETHER
100	HEXA CHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
100	PHENANTHRENE
100	ANTHRACENE
100	CARBON ZOLE
100	DI-N-ETHYL PHthalate
100	FLUORANTHENE
100	PYRENE
100	BENZYL BUTYL PHthalate
100	3,3'-DICHLOROBENZIDINE
100	BENZO(A)ANTHRACENE
100U	CHRYSENE
100	BIS(2-ETHYLHEXYL) PHthalate
100	DI-4-OCTYLPHthalate
100	BENZO(B AND/or) K FLUORANTHENE
100	BENZO(B AND/or) K FLUORANTHENE
100	MONO((1,3-CD)) PYRENE
100	DIBENZO(A)ANTHRACENE
100	BENZO(0,0,1)PERYLINE

REFONUNDES

AVERAGE VALUE = NA-NOT ANALYZED **+NA=INTERFERENCES** **J=ESTIMATED VALUE** **+N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL**
K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN **M=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN**
U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED; THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
R=OC INDICATES THAT DATA UNUSABLE. COMPOUNDS MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54433 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: PW-01 COLLECTION START: 01/29/91 0900 STOP: 00/00/00
CASE NUMBER: 15773 O. NUMBER: AA57

ANALYTICAL RESULTS

ANALYTICAL RESULTS

0.05OU	ALPHA-BHC	0.5OU	METHOXYCHLOR
0.05OU	BETA-BHC	0.1OU	ENDRIN KETONE
0.05OU	DELTA-BHC	0.1OU	ENDRIN ALDEHYDE
0.05OU	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.05OU	HEPTACHLOR	0.05OU	GAMMA-CHLORDANE /2
0.05OU	ALDRIN	0.05OU	ALPHA-CHLORDANE /2
0.05OU	HEPTACHLOR EPONIDE	5 OU	TOKAPHENE
0.1OU	ENDOSULFAN I (ALPHA)	1 OU	PCB-1216 (AROCLOL 1016)
0.1OU	4,4'-DDT (P,P'-DDT)	2 OU	PCB-1232 (AROCLOL 1232)
0.1OU	ENDRIN	1 OU	PCB-1242 (AROCLOL 1242)
0.1OU	ENDOSULFAN II (BETA)	1 OU	PCB-1248 (AROCLOL 1248)
0.1OU	4,4'-DDD (P,P'-DDD)	1 OU	PCB-1254 (AROCLOL 1254)
0.1OU	ENDOSULFAN SULFATE	1 OU	PCB-1260 (AROCLOL 1260)
0.1OU	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE DILUTION QUANTIFICATION.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

07/26/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-833 SAMPLE NO. 60227 SAMPLE TYPE: DRKWA PROG ELEM: NSF COLLECTED BY: R YOUNG
*** SOURCE: DICKSON COUNTY, TN CITY: DICKSON ST: TN
*** STATION ID: PW-01A PRIVATE WELL COLLECTION START: 07/24/91 1035 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE
5.0U VINYL CHLORIDE
5.0U BROMOMETHANE
5.0U CHLOROETHANE
5.0U TRICHLOROFLUOROMETHANE
5.0U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
5.0U ACETONE
12U CARBON DISULFIDE
5.0U PROPYLENE CHLORIDE
5.0U TRANS-1,2-DICHLOROETHENE
5.0U 1,1-DICHLOROETHANE
12U VINYL ACETATE
5.0U CIS-1,2-DICHLOROETHENE
5.0U 2,2-DICHLOROPROPANE
5.0U METHYL ETHYL KETONE
5.0U BROMOCHLOROMETHANE
5.0U CHLOROFORM
5.0U 1,1,1-TRICHLOROETHANE
5.0U 1,1-DICHLOROETHENE
5.0U CARBON TETRACHLORIDE
5.0U 1,2-DICHLOROETHANE
5.0U BENZENE
5.0U 1,1,1-TRICHLOROETHANE (TRICHLOROETHYLENE)
5.0U 1,2-DICHLOROPROPANE
5.0U DIBROMOMETHANE
5.0U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE
12U METHYL ISOBUTYL KETONE
5.0U TOLUENE
5.0U TRANS-1,3-DICHLOROPROPENE
5.0U 1,1,2-TRICHLOROETHANE
5.0U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
5.0U 1,3-DICHLOROPROPANE
12U METHYL BUTYL KETONE
5.0U DIBROMOMETHANE
5.0U CHLOROBENZENE
5.0U 1,1,1,2-TETRACHLOROETHANE
5.0U ETHYL BENZENE
5.0U (M- AND/OR P-)XYLENE
5.0U O-KYLINE
5.0U STYRENE
5.0U BROMOFORM
5.0U BROMOBENZENE
5.0U 1,1,2,2-TETRACHLOROETHANE
5.0U 1,2,2-TRICHLOROPROPANE
5.0U O-CHLORTOLUENE
5.0U P-CHLORTOLUENE
5.0U 1,3-DICHLOROBENZENE
5.0U 1,4-DICHLOROBENZENE
5.0U 1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/26/91

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 60226 SAMPLE TYPE: BLKWA
SOURCE: DICKSON COUNTY LF
STATION ID: TB-01W TRIP BLANK

PROG ELEM: NSF COLLECTED BY: R YOUNG
CITY: DICKSON ST. TN
COLLECTION START: 07/23/91 STOP: 00/00/00

ANALYTICAL RESULTS ug/L

700 ACETALDEHYDE

FOOTNOTES

- *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

08/02/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 59853 SAMPLE TYPE: GROUNDWATER PROG. ELEM: NSP COLLECTED BY: GARY BENEFIELD
SOURCE: DICKSON COUNTY CITY: DICKSON ST: TN
STATION ID: DC-PW-01A PRIVATE WELL COLLECTION START: 07/18/91 0845 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

0.10U	ALDRIN
0.10U	HEPTACHLOR
0.10U	HEPTACHLOR EPXIDE
0.10U	ALPHA-BHC
0.10U	BETA-BHC
0.10U	DELTA-BHC (LINDANE)
0.10U	DELTA-BHC
0.10U	ENDOSULFAN I (ALPHA)
0.10U	DIELDRIN
0.25U	4,4'-DDT (P,P'-DDT)
0.25U	4,4'-DDE (P,P'-DDE)
0.25U	4,4'-DDD (P,P'-DDD)
0.25U	ENDRIN
0.25U	ENDOSULFAN II (BETA)
0.25U	ENDOSULFAN SULFATE
1.50U	CHLORDANE (TECH. MIXTURE) /1
1.50U	PCB-1242 (AROCLO 1242)
1.50U	PCB-1254 (AROCLO 1254)
1.50U	PCB-1221 (AROCLO 1221)

UG/L	ANALYTICAL RESULTS
1.5U	PCB-1232 (AROCLO 1232)
1.5U	PCB-1248 (AROCLO 1248)
1.5U	PCB-1260 (AROCLO 1260)
1.5U	PCB-1016 (AROCLO 1016)
1.0U	TETRAPHENE
----	CHLORDENE /2
----	ALPHA-CHLORDENE /2
----	BETA-CHLORDENE /2
----	GAMMA-CHLORDENE /2
----	GAMMA-CHLORDANE /2
----	TRANS-NONACHLOR /2
----	ALPHA-CHLORDANE /2
----	CIS-MONACHLOR /2
0.50U	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.25U	METHOXYCHLOR
0.25U	ENDRIN KETONE

REMARKS

REMARKS

FOOTNOTES

*AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

08/01/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-833 SAMPLE NO. 59953 SAMPLE TYPE: GROUNDWATER PROG. ELEM: NSF COLLECTED BY: GARY BENEFIELD
*** SOURCE: DICKSON COUNTY, TN CITY: DICKSON ST: TN
*** STATION ID: DC-PW-01A, PRIVATE WELL COLLECTION START: 07/18/91 0945 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

1OU	1,3-AND/OR 4-METHYLPHENOL	1OU	BENZO(ghi)PERYLENE
1OU	1,2,4-TRICHLOROBENZENE	1OU	BENZO-A-PYRENE
1OU	2,2'-CHLOROTROPOLY(ETHER	1OU	BENZYL BUTYL PHthalate
1OU	2,3,4,6-TETRACHLOROPHENOL	1OU	BIS(2-(CHLOROETHoxy)) METHANE
1OU	2,4,5-TRICHLOROPHENOL	1OU	BIS(2-(CHLOROETHYL)) ETHER
1OU	2,4,6-TRICHLOROPHENOL	1OU	BIS(2-(ETHYLHEXYL)) PHthalate
1OU	2,4-DICHLOROPHENOL	1OU	CARBAZOLE
1OU	2,4-DIMETHYLPHENOL	1OU	CHRYSENE
2OU	2,4-DINITROPHENOL	1OU	DI-N-BUTYLPHthalate
1OU	2,4-DINITROTOLUENE	1OU	DI-N-OCTYLPHthalate
1OU	2,6-DINITROTOLUENE	1OU	DIBENZ(A,H)ANTHACENE
1OU	2-CHLOROMPHTHALENE	1OU	DIBENZOPHENONE
1OU	2-CHLOROPHENOL	1OU	DIMETHYL PHthalate
2OU	2,3,4,6-DINITROPHENOL	1OU	FLUORANTHENE
1OU	2-METHYLNAPHTHALENE	1OU	FLUORENE
1OU	2-METHYLPHENOL	1OU	HEXAChLOROBENZENE (HCB)
1OU	2-NITROANILINE	1OU	HEXAChLOROBUTADIENE
1OU	2-NITROPHENOL	1OU	HEXAChLOROCYCLOPENTADIENE (HCCP)
1OU	3,3'-DICHLOROBENZIDINE	1OU	HEXAChLOROETHANE
1OU	3-NITROANILINE	1OU	INDENONE (2,3-CD) PYRENE
1OU	4-BROMOPHENYL PHENYL ETHER	1OU	ISOPHORONE
1OU	4-CHLORO-3-METHYLPHENOL	1OU	N-NITROSODI-N-PROPYLAMINE
1OU	4-CHLOROPHENYL AMINE	1OU	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
1OU	4-CHLOROPHENYL PHENYL ETHER	1OU	NAPHTHALENE
1OU	4-NITROANILINE	1OU	NITROBENZENE
2OU	4-NITROPHENOL	2OU	PENTACHLOROPHENOL
1OU	ACENAPHTHENE	1OU	PHENANTHRENE
1OU	ACENAPHTHYLENE	1OU	PHENOL
1OU	ANTHRACENE	1OU	PYRENE
1OU	BENZO(A)ANTHRACENE		
1OU	BENZO(B AND/OR K)FLUORANTHENE		

FOOTNOTES

*A-AVERAGE VALUE *N-A-NOT ANALYZED *NA-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

07/26/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-833 SAMPLE NO. 60226 SAMPLE TYPE: BLKWA PROG ELEM: NSF COLLECTED BY: R YOUNG
SOURCE: DICKSON COUNTY LF CITY: DICKSON ST: TN
STATION ID: TB-01W TRIP BLANK COLLECTION START: 07/23/91 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE
5.0U VINYL CHLORIDE
5.0U BROMOETHANE
5.0U CHLOROETHANE
5.0U TRICHLOROFLUOROMETHANE
5.0U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
5.0U ACETONE
1.2U CARBON DISULFIDE
5.0U METHYLENE CHLORIDE
5.0U TRANS-1,2-DICHLOROETHENE
5.0U 1,1-DICHLOROETHANE
1.2U VINYL ACETATE
5.0U CIS-1,2-DICHLOROETHENE
5.0U 2,2-DICHLOROPROPANE
5.0U METHYL ETHYL KETONE
5.0U BROMOCHLOROMETHANE
5.0U CHLOROFORM
5.0U 1,1,1-TRICHLOROETHANE
5.0U 1,1-DICHLOROPROPENE
5.0U CARBON TETRACHLORIDE
5.0U 1,2-DICHLOROETHANE
5.0U BENZENE
5.0U TRICHLOROETHENE (TRICHLOROETHYLENE)
5.0U 1,2-DICHLOROPROPANE
5.0U DIBROMOETHANE
5.0U BROMODICHLOROMETHANE

5.0U CIS-1,3-DICHLOROPROPENE
12U METHYL ISOBUTYL KETONE
5.0U TOLUENE
5.0U TRANS-1,3-DICHLOROPROPENE
5.0U 1,1,2-TRICHLOROETHANE
5.0U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
5.0U 1,3-DICHLOROPROPANE
12U METHYL BUTYL KETONE
5.0U DIBROMOCHLOROMETHANE
5.0U CHLOROBENZENE
5.0U 1,1,1,2-TETRACHLOROETHANE
5.0U ETHYL BENZENE
5.0U (M-ANIS) OR P-XYLENE
5.0U O-XYLENE
5.0U STYRENE
5.0U BROMOFORM
5.0U BROMOBENZENE
5.0U 1,1,2,2-TETRACHLOROETHANE
5.0U 1,2,3-TRICHLOROPROPANE
5.0U O-CHLOROTOLUENE
5.0U P-CHLOROTOLUENE
5.0U 1,3-DICHLOROBENZENE
5.0U 1,4-DICHLOROBENZENE
5.0U 1,2-DICHLOROBENZENE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWATER PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO., LF CITY: DICKSON ST: TN
STATION ID: MF-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA74

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10U CHLOROMETHANE
10U BROMOMETHANE
10U VINYL CHLORIDE
10U CHLOROETHANE
10U METHYLENE CHLORIDE
10U ACETONE

10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U 1,1-DICHLOROETHANE

10U CHLOROPRORANE (CHLORINE TOTAL)
10U 1,2-DICHLOROETHANE
10U BIS(2-METHYL)KETONE
10U 1,1,1-TRICHLOROETHANE
10U CARBON TETRACHLORIDE
10U BROMODICHLOROMETHANE

10U 1,2-DICHLOROPROPANE
10U CIS-1,3-DICHLOROPROPENE
10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U 1,1,1,2-TETRACHLOROMETHANE
10U 1,1,2-TRICHLOROETHANE
10U BENZENE
10U TRANS-1,3-DICHLOROPROPENE
10U BROMOFORM
10U METHYL ISOBUTYL KETONE
10U METHYL BUTYL KETONE
10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,1,2,2-TETRACHLOROETHANE
10U TOLUENE
10U CHLOROBENZENE
10U ETHYL BENZENE
10U STYRENE
10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *N-NOT ANALYZED *HAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: A474

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OUJ	PHENOL	5OUJ	3-NITROANILINE
1OUJ	BIS(2-CHLOROETHYL) ETHER	1OUJ	ACENAPHTHENE
1OUJ	2-CHLOROPHENOL	5OUJ	2,4-DINITROPHENOL
1OUJ	1,3-DICHLOROBENZENE	5OUJ	4-BROMOPHENOL
1OUJ	1,4-DICHLOROBENZENE	1OUJ	DIBENZO-PYRAN
1OUJ	1,2-DICHLOROBENZENE	1OUJ	2,4-DINITROTOLUENE
1OUJ	2-METHYLPHENOL	1OUJ	DIETHYL PHthalate
1OUJ	2,2'-CHLORODIISOPROPYLETHER	1OUJ	4-CHLOROPHENYL PHENYL ETHER
1OUJ	(3-AND/OR 4)-METHYLPHENOL	1OUJ	FLUORENE
1OUJ	N-NITROSO-DI-N-PROPYLAMINE	5OUJ	4-NITROANILINE
1OUJ	METHYLCHLORIDE THANE	1OUJ	2-METHYL-4,6-DINITROPHENOL
1OUJ	NITROBENZENE	1OUJ	N-NITROSO-DI-PHENYLAMINE/DIPHENYLAMINE
1OUJ	ISOPHORONE	1OUJ	4-BROMOPHENYL PHENYL ETHER
1OUJ	2-NITROPHENOL	1OUJ	HEXAChLOROBENZENE (HCB)
1OUJ	2,4-DIMETHYLPHENOL	1OUJ	PERCHLOROPHENOL
1OUJ	BIS(2-CHLOROETHOXY) METHANE	1OUJ	PYRENENE
1OUJ	2,4-DICHLOROPHENOL	1OUJ	ANTHRACENE
1OUJ	1,2,4-TRICHLOROBENZENE	1OUJ	CARBAZOLE
1OUJ	NAPHTHALENE	1OUJ	DI-N-RUTYLPHthalate
1OUJ	4-CHLOROANILINE	1OUJ	FLUORANTHENE
1OUJ	HEXAChLOROBUTADIENE	1OUJ	PYRENE
1OUJ	4-CHLORO-2-METHYLPHENOL	1OUJ	BENZYL BUTYL PHthalate
1OUJ	2-METHYLNAPHTHALENE	1OUJ	3,3'-DICHLOROBENZIDINE
1OUJ	HEXAChLOROCYCLOPENTADIENE (HCCP)	1OUJ	BENZ(DA)ANTHRACENE
5OUJ	2,4,6-TRICHLOROPHENOL	1OUJ	INDENE
1OUJ	2,4,5-TRICHLOROPHENOL	1OUJ	BIS(2-ETHYLHEXYL) PHthalate
5OUJ	2-CHLORONAPHTHALENE	1OUJ	DI-4-OCTYLPHthalate
1OUJ	2-NITROANILINE	1OUJ	BENZO(A AND/OR K)FLUORANTHENE
1OUJ	DIMETHYL PHthalate	1OUJ	BENZO-A-PYRENE
1OUJ	ACENAPHTHYLENE	1OUJ	INDENO (1,2,3-CD) PYRENE
1OUJ	2,6-DINITROTOLUENE	1OUJ	DIBENZO(A,H)ANTHRACENE
		1OUJ	BENZO(GH)PYRENE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26,1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: 0 NO.: AA74 MD NO.: AA74

ANALYTICAL RESULTS ug/l

10000 BUTYLIDENEBIS[(DIMETHYLETHYL)METHYL]PHENONE

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *I-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54450 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: MW-01 COLLECTION START: 01/30/91 1545 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA74

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

0.05OU	ALPHA-BHC	0.5OU	METHOXYCHLOR
0.05OU	BETA-BHC	0.1OU	ENDRIN KETONE
0.05OU	DELTA-BHC	0.1OU	ENDRIN ALDEHYDE
0.05OU	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.05OU	HEPTACHLOR	0.05OU	GAMMA-CHLORDANE /2
0.05OU	ALDRIN	0.05OU	ALPHA-CHLORDANE /2
0.05OU	HEPTACHLOR EPoxide	5.OU	TOXAPENE
0.05OU	ENDOSULFAN I (ALPHA)	1.OU	PCB-1016 (AROCOLOR 1016)
0.1OU	OIELDRIN	1.OU	PCB-1221 (AROCOLOR 1221)
0.1OU	4,4'-DDT (P,P'-DDT)	2.OU	PCB-1232 (AROCOLOR 1232)
0.1OU	ENDRIN	1.OU	PCB-1247 (AROCOLOR 1247)
0.1OU	ENDOSULFAN II (BETA)	1.OU	PCB-1248 (AROCOLOR 1248)
0.1OU	4,4'-DDD (P,P'-DDD)	1.OU	PCB-1254 (AROCOLOR 1254)
0.1OU	ENDOSULFAN SULFATE	1.OU	PCB-1260 (AROCOLOR 1260)
0.1OU	4,4'-DDT (P,P'-DDT)		

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
 STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: 0. NO.: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYLCHLORIDE	10U	TRICHLOROETHENE(TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
20U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U	CHLOROFORM	10U	1,1,2,2-TETRACHLOROETHANE
10U	1,2-DICHLOROETHANE	10U	TOLUENE
10U	METHYL ETHYL KETONE	10U	CHLOROBENZENE
10U	1,1,1-TRICHLOROETHANE	10U	ETHYL BENZENE
10U	CARBON TETRACHLORIDE	10U	STYRENE
10U	BROMODICHLOROMETHANE	10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *I-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSP COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: MM-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
100UJ	PHENOL	50UJ	3-NITROANILINE
100UJ	BIS(2-CHLOROETHYL) ETHER	100UJ	ACENAPHTHENE
100UJ	2-CHLOROPHENOL	500UJ	2,4-DINITROPHENOL
100UJ	1,3-DICHLOROBENZENE	500UJ	4-NITROPHENOL
100UJ	1,4-DICHLOROBENZENE	100UJ	1BENZOFURANE
100UJ	1,2-DICHLOROBENZENE	100UJ	2,6-DINITROTOLUENE
100UJ	2-METHYL PHENOL	100UJ	DIETHYL PHTHALATE
100UJ	2-(3-AND/OR 4-)METHYLPHENOL	100UJ	4-CHLOROPHENYL PHENYL ETHER
100UJ	N-NITROSODI-N-PROPYLAMINE	100UJ	FLUORENE
100UJ	HEXAChLORoETHANE	50UJ	4-NITROANILINE
100UJ	NITROBENZENE	100UJ	2-METHYL-4,6-DINITROPHENOL
100UJ	ISOPHORONE	100UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
100UJ	2-NITROPHENOL	100UJ	4-BROMOPHENYL PHENYL ETHER
100UJ	2,4-DIMETHYLPHENOL	100UJ	HEXAChLOROBENZENE (HCB)
100UJ	BIS(2-CHLOROETHoxy) METHANE	500UJ	PENACIDOLOPHENOL
100UJ	2,4,6-TRICHLOROPHENOL	100UJ	PERNAVATENE
100UJ	2,4,5-TRICHLOROBENZENE	100UJ	ANTHRACENE
100UJ	NAPHTHALENE	100UJ	CARBAZOLE
100UJ	4-CHLORANILINE	100UJ	DI-N-BUTYLPHTHALATE
100UJ	HEXAChLOROBUTADIENE	100UJ	FLUORANTHENE
100UJ	4-CHLORO-3-METHYLPHENOL	100UJ	PYRENE
100UJ	2-METHYLNAPHTHALENE	100UJ	BENZYL BUTYL PHTHALATE
100UJ	HEXAChLOROCYCLOPENTADIENE (HCCP)	100UJ	3,3'-DICHLOROBENZIDINE
100UJ	2,4,6-TRICHLOROPHENOL	100UJ	BENZO(A)ANTHRACENE
500UJ	2,4,5-TRICHLOROPHENOL	100UJ	CHRYSENE
500UJ	2-CHLORONAPHTHALENE	100UJ	BIS(2-CHLOROETHYL) PHTHALATE
500UJ	2,4,5-TRICHLOROBENZENE	100UJ	DI-2-OCYLPHTHALATE
100UJ	DIMETHYL PHTHALATE	100UJ	BENZO(8, AND/OR K)FLUORANTHENE
100UJ	ACENAPHTHYLENE	100UJ	BENZO-A-PYRENE
100UJ	2,6-DINITROTOLUENE	100UJ	INDENO (1,2,3-CD) PYRENE

REMARKS
 HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26,1984)

REMARKS

FOOTNOTES
 *A=AVERAGE VALUE *NA=NOT ANALYZED *NT=INTERFERENCES *E=ESTIMATED VALUE *N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 #MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT
 PROJECT NO: 91-268 SAMPLE NO: 54451 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: HW-D2 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
 EASE NO: 15773 SAS NO.: D. NO: AA75 MD. NO: AA75

ANALYTICAL RESULTS UG/L

RESULTS

REMARKS
HOLDING TIMES EXCEEDED(40 CFR 136, OCTOBER 26, 1984)

REMARKS

FOOTNOTES

*-AVERAGE VALUE *NA-NOT ANALYZED *NJI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*-D-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
*-R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT #: 91-286 SAMPLE NO. 54451 SAMPLE TYPE: GROUNDWA PROC ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: MW-02 COLLECTION START: 01/30/91 1610 STOP: 00/00/00
 CASE NUMBER: 15773 D. NUMBER: AA75

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DETA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	gamma-BHC (LINDANE)	0.050U	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	PHENYL-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOKOPHEROL
0.10U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCLOL 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCLOL 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCLOL 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCLOL 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCLOL 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCLOL 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCLOL 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA56

UG/KG

ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

420UJ	PHENOL	2200UJ	3-NITROANILINE
420UJ	BIS(2-CHLOROETHYL) ETHER	420UJ	ACENAPHTHENE
420UJ	2-CHLOROPHENOL	2200UJ	2,4-DINITROPHENOL
420UJ	1,3-DICHLOROBENZENE	2200UJ	4-NITROPHENOL
420UJ	1,4-DICHLOROBENZENE	420UJ	DIBENZOFURAN
420UJ	1,2-DICHLOROBENZENE	420UJ	2,4-DINITROTOLUENE
420UJ	2-METHYLPHENOL	420UJ	DIETHYL PHthalate
420UJ	2,2'-CHLORoisOPROPYLEther	420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	(3-AND/OR 4-)METHYLPHENOL	420UJ	FLUORENE
420UJ	N,NITROSO(DI-N-PROPYL)AMINE	2200UJ	4-NITROANILINE
420UJ	HEXACHLOROBUTANE	2200UJ	2-METHYLDINITROPHENOL
420UJ	NITROBENZENE	420UJ	M-NITRODIPHENYLAMINE(DIPHENYLAMINE)
420UJ	ISOPHORONE	420UJ	4-BROMOPHENYL PHENYL ETHER
420UJ	2-NITROPHENOL	420UJ	HEXAChLOROBENZENE (HCB)
420UJ	2,4-DIMETHYLPHENOL	2200UJ	PENTACHLOROPHENOL
420UJ	BIS(2-CHLOROETHOXY) METHANE	420UJ	PHENANTHRENE
420UJ	2,4-DICHLOROPHENOL	420UJ	ANTHRACENE
420UJ	1,2,4-TRICHLOROBENZENE	420UJ	CARBAZOLE
420UJ	NAPHTHALENE	420UJ	DI-N-BUTYLPHthalate
420UJ	4-CHLOROBUTYLTHIENE	420UJ	FLUORANTHENE
420UJ	HEXAChLOROBUTADIENE	420UJ	PYRENE
420UJ	4-CHLORO-3-METHYLPHENOL	420UJ	2-EIAYE BUTYL PHthalate
420UJ	2-METHYLNAPHTHALENE	420UJ	2,3-DICHLOROBENZIDINE
420UJ	HEXAChLOROCYCLOPENTADIENE (HCP)	420UJ	BENZO(A)ANTHRACENE
420UJ	2,4,6-TRICHLOROPHENOL	420UJ	CHRYSENE
2200UJ	2,4,5-TRICHLOROPHENOL	420UJ	BIS(2-ETHYLHEXYL) PHthalate
420UJ	2-CHLORONAPHTHALENE	420UJ	DI-N-OCTYLPHthalate
2200UJ	2-NITROANILINE	420UJ	BENZO(B AND/OR K)FLUORANTHENE
420UJ	DIMETHYL PHthalate	420UJ	BENZO-A-PYRENE
420UJ	ACENAPHTHYLENE	420UJ	INDENO(1,2,3-CD) PYRENE
420UJ	2,6-DINITROTOLUENE	420UJ	DIBENZO(A,H)ANTHRACENE
		420UJ	BENZO(GH)PERYLENE
		22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-286 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG ELEM. NSP COLLECTED BY: G BEINFELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00
*** CASE NUMBER: 15773 D. NUMBER: AAS6

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC	2.1U	METHOXYCHLOR
2.1U	BETA-BHC	4.1U	ENDRIN KETONE
2.1U	DELTA-BHC	4.1U	ENDRIN ALDEHYDE
2.1U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
2.1U	HEPTACHLOR	2.1U	GAMMA-CHLORDANE /2
2.1U	ALDRIN	2.1U	ALPHA-CHLORDANE /2
2.1U	HEPTACHLOR EPOKIDE	210U	TOXAPEME
2.1U	ENDOSULFAN I (ALPHA)	41U	PCB-1016 (AROCLOL 1016)
4.1U	DIELDRIN	41U	PCB-1221 (AROCLOL 1221)
4.1U	HEPTACHLOR-DDE (P,P'-DDE)	84U	PCB-1232 (AROCLOL 1232)
4.1U	ENDOSULFAN II (BETA)	41U	PCB-1242 (AROCLOL 1242)
4.1U	4,4'-DDD (P,P'-DDD)	41U	PCB-1248 (AROCLOL 1248)
4.1U	ENDOSULFAN SULFATE	41U	PCB-1254 (AROCLOL 1254)
4.1U	4,4'-DDT (P,P'-DDT)	41U	PCB-1260 (AROCLOL 1260)
		22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

PURGEABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PROJECT NO. 91-266 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWATER PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
STATION ID: SW-01 COLLECTION START: 01/29/91 1010 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AASB

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U CHLOROETHANE	10U DIBROMOCHLOROMETHANE
20U METHYLENE CHLORIDE	10U 1,1,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL 1,2Bromo-1-METONE 10U 1,1,2,2-TETRA
10U 1,1-DICHLOROETHENE (TOTAL)	10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U CHLOROETHANE	10U 1,1,2,2-TETRA
10U 1,1-DICHLOROETHANE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
**ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: C BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1010 STOP: 00/00/00
STATION ID: SW-01

CASE NO.: 15773

SAS NO.:

D. NO.: AA58

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10UJ PHENOL
10UJ BIS(2-CHLOROETHYL) ETHER
10UJ 2-CHLOROPHENOL
10UJ 1,2-CHLOROBENZENE
10UJ 1,4-DICHLOROBENZENE
10UJ 1,2-DICHLOROBENZENE
10UJ 1,3-DICHLOROPHENOL
10UJ 2,2'-CHLOROISOPROPYLETHER
10UJ (3-AND/OR 4-)METHYLPHENOL
10UJ N-NITROSODI-N-PROPYLAMINE
10UJ HEXACHLOROETHANE
10UJ NITRODIBENZENE
10UJ 1,2,4-TRICHLOROBENZENE
10UJ 2-NITROBENZENE
10UJ 2,4-DIMETHYLPHENOL
10UJ BIS(2-CHLOROETHOXY) METHANE
10UJ 2,4-DICHLOROPHENOL
10UJ 1,2,4-TRICHLOROBENZENE
10UJ NAPHTHALENE
10UJ 4-CHLORANILINE
10UJ HEXACHLOROBUTADIENE
10UJ 4-CHLORO-3-METHYLPHENOL
10UJ 2-METHYLNAPHTHALENE
10UJ HEXACHLOROBUTADIENE (HCCP)
10UJ 2,4,5-TRICHLOROPHENOL
10UJ 2-CHLORONAPHTHALENE
10UJ 2-NITROANILINE
10UJ DIMETHYL PHTHALATE
10UJ ACENAPHTHYLENE
10UJ 2,6-DINITROTOLUENE

50UJ 3-NITROANILINE
10UJ ACENAPHTHENE
50UJ 2,4-DIMETHYLPHENOL
50UJ 4-NITROBENZENE
10UJ DIBENZOFURAN
10UJ 2,4-DINITROTOLUENE
10UJ DIETHYL PHTHALATE
10UJ 4-CHLOROPHENYL PHENYL ETHER
10UJ FLUORENE
50UJ 4-NITROANILINE
50UJ 2-METHYL-4,6-DINITROPHENOL
10UJ N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ 4-BENZOPHENYL PHENYL ETHER
10UJ HEPTACHLOROBENZENE (HCB)
50UJ PENTACHLOROPHENOL
10UJ PHENANTHRENE
10UJ ANTHRACENE
10UJ CARBAZOLE
10UJ DI-N-BUTYLPHTHALATE
10UJ FLUORANTHENE
10UJ PYRENE
10UJ BENZYI BUTYL PHTHALATE
10UJ 3,3'-BIS(CHLOROBENZIDINE)
10UJ BENZO(A)ANTHRACENE
10UJ CHRYSENE
10UJ BIS(2-ETHYLHEXYL) PHTHALATE
10UJ DI-M-OCTYLPHTHALATE
10UJ BENZO(B AND/OR K)FLUORANTHENE
10UJ BENZO-A-PYRENE
10UJ INDENO (1,2,3-CD) PYRENE
10UJ DIBENZO(A,H)ANTHRACENE
10UJ BENZO(GH)PERYLENE

REMARKS
HOLDING TIMES EXCEEDED (40 CFR 136, OCTOBER 26, 1984)

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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PESTICIDES/PCB'S DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV FSD, ATHENS, GA.

04/30/91

PROJECT NO. 91-268 SAMPLE NO. 54434 SAMPLE TYPE: SURFACEWA
 SOURCE: DICKSON CO. LF COLLECTED BY: G.BEINFIELD
 STATION ID: SW1 CITY: DICKSON ST: TN
 CASE NUMBER: 15773 SAS NUMBER: 0. NUMBER: AA58

UG/L ANALYTICAL RESULTS

0.05OU ALPHA-BHC
 0.05OU BETA-BHC
 0.05OU DELTA-BHC
 0.05OU HEPTACHLOR
 0.05OU ALDRIN
 0.05OU HEPTACHLOR EPOXIDE
 0.05OU ENDOSULFAN I (ALPHA)
 0.1OU DIELDRIN
 0.1OU 4,4'-DDE (P,P'-DDE)
 0.1OU ENDRIN
 0.1OU ENDOSULFAN II (BETA)
 0.1OU 4,4'-DDD (P,P'-DDD)
 0.1OU ENDOSULFAN SULFATE
 0.1OU 4,4'-DDT (P,P'-DDT)

UG/L ANALYTICAL RESULTS

0.5OU METHOXYCHLOR
 0.1OU ENDRIN KETONE
 0.1OU ENDRIN ALDEHYDE
 0.05OU CHLORDANE (TECH. MIXTURE) /1
 0.05OU GAMMA-CHLORDANE /2
 0.05OU ALPHA-CHLORDANE /2
 5.0U TOXAPHENE
 1.0U PCB-1016 (AROCOLOR 1016)
 1.0U PCB-1221 (AROCOLOR 1221)
 2.0U PCB-1232 (AROCOLOR 1232)
 1.0U PCB-1242 (AROCOLOR 1242)
 1.0U PCB-1248 (AROCOLOR 1248)
 1.0U PCB-1254 (AROCOLOR 1254)
 1.0U PCB-1260 (AROCOLOR 1260)

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *M1-MATERIAL INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *M-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEW PROD ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA65

UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE
10U BROMOMETHANE
10U VINYL CHLORIDE
10U CHLOROETHANE
10U 1,1-THILOLENE CHLORIDE
80U ACETONE
10U CARBON DISULFIDE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
10U 1,1-DICHLOROETHANE
10U 1,2-DICHLOROETHENE (TOTAL)
10U CHLOROFORM
10U 1,2-DICHLOROETHANE
10U 1,1,1-TRICHLOROETHANE
10U CARBON TETRACHLORIDE
10U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

10U 1,2-DICHLOROPROPANE
10U CIS-1,3-DICHLOROPROPENE
10U TRICHLOROETHENE(TRICHLOROETHYLENE)
10U DICHLOROCHLOROMETHANE
10U 1,1,2-TRICHLOROETHANE
10U BENZENE
10U 1,1,2-TRICHLOROPROPENE
10U BROMOFORM
10U 2-METHYL ISOBUTYL KETONE
10U METHYL BUTYL KETONE
10U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U 1,1,2,2-TETRACHLOROETHANE
10U TOLUENE
10U CHLOROBENZENE
10U ETHYL BENZENE
10U STYRENE
10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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EXTRACTABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

PROJECT NO. 91-288 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA65

UG/L

ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U PHENOL	50U 3-NITROANILINE
10U BIS(2-CHLOROETHYL) ETHER	10U ACENAPHTHENE
10U 2-CHLOROPHENOL	50U 4-DINITROPHENOL
10U 1,3-DICHLOROBENZENE	50U 4-NITROPHENOL
10U 1,4-DICHLOROBENZENE	10U DIBENZOFLUORAN
10U 1,2-DICHLOROBENZENE	50U 2,4-DINITROTOLUENE
10U 2,2'-CHLORODIISOPROPYLETHER	10U DIETHYL PHTHALATE
10U (3-AND/OR 4-)METHYLPHENOL	10U 4-CHLOROPHENYL PHENYL ETHER
10U N-NITROSO-DI-N-PROPYLAMINE	10U FLUORENE
10U HEXACHLOROBUTANE	50U 4-NITROANILINE
10U NITROBENZENE	50U 2-METHYL-4,6-DINITROPHENOL
10U ISOPHORONE	10U N-NITROSO-DIPHENYLAMINE/DIPHENYLAMINE
10U 2-NITROPHENOL	10U 4-BROMOPHENYL PHENYL ETHER
10U 4,4'-DIBROMOPHENOL	10U HEXACHLOROBENZENE (HCB)
10U BIS(4-CHLOROETHOXY) METHANE	50U PENTACHLOROPHENOL
10U 2,4-DICHLOROPHENOL	10U PYRENTHRENE
10U 1,2,4-TRICHLOROBENZENE	10U ANTHRACENE
10U NAPHTHALENE	10U CARBAZOLE
10U 4-CHLOROANILINE	10U DI-M-BUTYL PHTHALATE
10U HEXACHLOROBUTADIENE	10U FLUORANTHENE
10U 4-CHLORO-3-METHYLPHENOL	10U PYRENE
10U 2-METHYLNAPHTHALENE	10U BENZYL BUTYL PHTHALATE
10U HEXACHLOROCYCLOPENTADIENE (HCPC)	10U 3,3'-DICHLOROBENZIDINE
10U 2,4,8-TRICHLOROPHENOL	10U BENZO(A)ANTHRACENE
50U 2,4,5-TRICHLOROPHENOL	10U CHRYSENE
10U 2-CHLOROMAPPHTHALENE	10U (BIS(2-CHLOROETHYL)) PHTHALATE
50U 2-NITROANILINE	10U DI-2-OCTYL PHTHALATE
10U DIMETHYL PHTHALATE	10U BENZO(B AND/OR K)FLUORANTHENE
10U ACENAPHTHYLENE	10U BENZO-A-PYRENE
10U 2,6-DINITROTOLUENE	10U INDENO (1,2,3-CD) PYRENE
	10U DIBENZO(A,H)ANTHRACENE
	10U BENZO(GH)PYRENE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/29/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-02 COLLECTION START: 01/29/91 1215 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AAGS

ANALYTICAL RESULTS UO/L

300F 2-METHYLPROPANE-2-OLE
649F CYCLOHEXYLCARBOXYBENZYLIC ACID
644F DIETHYLMETHYL BENZAMIDE
20J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A=AVVERAGE VALUE •NA=NOT ANALYZED •N/A=INTERFERENCES •J=ESTIMATED VALUE •N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54441 SAMPLE TYPE: SURFACEWA PROG ELEM-NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO., LF CITY: DICKSON ST: TN
STATION ID: SW22 COLLECTION START: 01/29/91 1216 STOP: 00/00/00
CASE NUMBER: 15773 S/N NUMBER: AAGS

ANALYTICAL RESULTS		ANALYTICAL RESULTS	
UG/L		UG/L	
0.050U	ALPHA-BHC	0.50U	METHOXVCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	HEPTACHLOR (LINDANS)	0.050U	CHLORDANE (TECH. MIXTURE) /1
0.050U	ALDRIN	0.050U	GAMMA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	0.050U	ALPHA-CHLORDANE /2
0.10U	ENDOSULFAN I (ALPHA)	5.0U	TOXAPHENZ
0.10U	DIELDRIN	1.0U	PCB-1016 (AROCLOR 1016)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1221 (AROCLOR 1221)
0.10U	ENDRIN	2.0U	PCB-1232 (AROCLOR 1232)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1242 (AROCLOR 1242)
0.10U	4,4'-DDT (P,P'-DDT)	1.0U	PCB-1248 (AROCLOR 1248)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1254 (AROCLOR 1254)
0.10U	4,4'-DDT (P,P'-DDT)	1.0U	PCB-1260 (AROCLOR 1260)

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROC ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: A486

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE	10U	1,2-DICHLOROPROPANE
10U	BROMOMETHANE	10U	CIS-1,3-DICHLOROPROPENE
10U	VINYL CHLORIDE	10U	TRICHLOROETHENE (TRICHLOROETHYLENE)
10U	CHLOROETHANE	10U	DIBROMOCHLOROMETHANE
10U	METHYLENE CHLORIDE	10U	1,1,2-TRICHLOROETHANE
10U	ACETONE	10U	BENZENE
10U	CARBON DISULFIDE	10U	TRANS-1,3-DICHLOROPROPENE
10U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	10U	BROMOFORM
10U	1,1-DICHLOROETHANE	10U	METHYL ISOBUTYL KETONE
10U	1,2-DICHLOROETHENE (TOTAL)	10U	METHYL BUTYL KETONE
10U	CHLOROFORM	10U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U	1,2-DICHLOROETHANE	10U	1,1,2,2-TETRACHLOROETHANE
10U	METHYL ISOBUTYL KETONE	10U	TOLUENE
10U	1,1,1-TRICHLOROETHANE	10U	CHLOROBENZENE
10U	CARBON TETRACHLORIDE	10U	ETHYL BENZENE
10U	BROMODICHLOROMETHANE	10U	STYRENE
		10U	TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 01-288 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BETHEFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: IN COLLECTION START: 01/29/91 1330 STOP: 00/00/00
STATION ID: SW-03

CASE NO.: 15773

SAS NO.:

D. NO.: AA66

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

1OU	PHENOL	5OU	3-NITROANILINE
1OU	BIS(2-CHLOROETHYL) ETHER	1OU	ACENAPHTHENE
1OU	2-CHLOROPHENOL	5OU	2,4-DINITROPHENOL
1OU	1,2-DICHLOROBENZENE	5OU	4-NITROPHENOL
1OU	1,4-DICHLOROBENZENE	1OU	DIBENZOFURAN
1OU	1,2-DICHLOROBENZENE	1OU	2,4-DINITROTOLUENE
1OU	2-METHYLPHENOL	1OU	DIETHYL PHthalate
1OU	2,2'-CHLORODISOPROPYLETHER	1OU	4-CHLOROPHENYL PHENYL ETHER
1OU	(3-AND/OR 4-)METHYLPHENOL	1OU	FLUORENE
1OU	N-NITROSODI-N-PROPYLAMINE	5OU	4-NITROANILINE
1OU	HEXAChLOROTHANE	1OU	2-METHYL-4,6-DINITROPHENOL
1OU	NITROBENZENE	1OU	N-NITROSO(DIPHENYLAMINE)/DIPHENYLAMINE
1OU	ISOPHORONE	1OU	4-BROMOPHENYL PHENYL ETHER
1OU	2-NITROPHENOL	1OU	4-CHLOROBENZENE (NCB)
1OU	4-CHLOROBENZENE	5OU	PENTACHLOROPHENOL
1OU	BIS(2-CHLOROETHYL) PHENOL	1OU	PHENANTHRENE
1OU	BIS(2-CHLOROETHYL) METHANE	1OU	ANTHRACENE
1OU	2,4-DICHLOROPHENOL	1OU	CARBAZOLE
1OU	1,2,4-TRICHLOROBENZENE	1OU	DI-N-BUTYLPHthalate
1OU	NAPHTHALENE	1OU	FLUORANTHENE
1OU	4-CHLORDAMILINE	1OU	PYRENE
1OU	HEXAChLOROBUTADIENE	1OU	BENZYL BUTYL PHthalate
1OU	4-CHLORO-3-METHYLPHENOL	1OU	3,3'-DICHLOROBENZIDINE
1OU	2-METHYLNAPHTHALENE	1OU	BENZO(A)ANTHRACENE
1OU	HEXAChLOROCYCLOPENTADIENE (HCCP)	1OU	CHRYSENE
1OU	2,4,6-TRICHLOROPHENOL	1OU	BIS(2-ETHYLHEXYL) PHthalate
5OU	2,4,4-TRICHLOROPHENOL	1OU	DI-N-OCTYLPHthalate
1OU	CHLORONAPHTHALENE	1OU	BENZO(B) AND/OR K FLUORANTHENE
5OU	2-NITROANILINE	1OU	BENZO-A-PYRENE
1OU	DIMETHYL PHthalate	1OU	INDENO (1,2,3-CD) PYRENE
1OU	ACENAPHTHYLENE	1OU	DIBENZO(A,H)ANTHRACENE
1OU	2,6-DINITROTOLUENE	1OU	BENZO(GH)PERYLENE

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-286 SAMPLE NO. 54442 SAMPLE TYPE: SURFACEWA PROG. FILE: NSF COLLECTED BY: G.BEINFELD **
 *** SOURCE: DICKSON CO LF CITY: DICKSON ST: TN **
 *** STATION ID: SW-03 COLLECTION START: 01/29/91 1330 STOP: 00/00/00 **
 *** CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA66 **

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXICHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)		CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPONIDE	5.0U	TOXAPHENE
0.050U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DD (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	ENDOSULFAN SULFATE		
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 01-266 SAMPLE NO. 64438 SAMPLE TYPE: SURFACEW PROJ ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO LP CITY: DICKSON ST: TN
STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA62

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

10U CHLOROMETHANE	10U 1,2-DICHLOROPROPANE
10U BROMOMETHANE	10U CIS-1,3-DICHLOROPROPENE
10U VINYL CHLORIDE	10U TRICHLOROETHENE(TRICHLOROETHYLENE)
10U CARBON TETRACHLORIDE	10U DICBROMOCHLOROMETHANE
20U METHYLENE CHLORIDE	10U 1,2,2-TRICHLOROETHANE
10U ACETONE	10U BENZENE
10U CARBON DISULFIDE	10U TRANS-1,3-DICHLOROPROPENE
10U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	10U BROMOFORM
10U 1,1-DICHLOROETHANE	10U METHYL ISOBUTYL KETONE
10U 1,2-DICHLOROETHENE (TOTAL)	10U METHYL ETHYL KETONE
10U CHLOROFORM	10U TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U 1,2-DICHLOROETHANE	10U 1,1,2,2-TETRACHLOROETHANE
10U METHYL ETHYL KETONE	10U TOLUENE
10U 1,1,1-TRICHLOROETHANE	10U CHLOROBENZENE
10U CARBON TETRACHLORIDE	10U ETHYL BENZENE
10U BROMODICHLOROMETHANE	10U STYRENE
	10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: C BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: 0. NO.: AA62
 UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U PHENOL	50U 3-NITROANILINE
10U BIS(2-CHLOROETHYL) ETHER	10U ACENAPHTHENE
10U 2-CHLOROPHENOL	50U 2,4-DINITROPHENOL
10U 1,3-DICHLOROBENZENE	50U 4-NITROPHENOL
10U 1,4-DICHLOROBENZENE	10U DIBENZOFURAN
10U 1,2-DICHLOROBENZENE	10U 2,4-DINITROTOLUENE
10U 2-METHYLPHENOL	10U DIETHYL PHTHALATE
10U 2,2'-CHLOROISOPROPYLETHER	10U 4-CHLOROPHENYL PHENYL ETHER
(3-AND/OR 4-)METHYLPHENOL	10U FLUORENE
10U N,N-BIS(2-CHLOROETHYL)AMINE	50U 4-NITROANILINE
HEXA(2-CHLOROETHANE)	50U 2-METHYL-4,6-DINITROPHENOL
NITROBENZENE	10U N-(BENZOI)PHENYLAMINE/DIPHENYLAMINE
ISOPHORONE	10U 4-BROMOPHENYL PHENYL ETHER
2-NITROPHENOL	10U HEXACHLOROBENZENE (ACB)
10U 2,4-DIMETHYLPHENOL	50U PENTACHLOROPHENOL
10U BIS(2-CHLOROETHOXY) METHANE	10U PHENANTHRENE
10U 2,4-DICHLOROPHENOL	10U ANTHRACENE
10U 1,2,4-TRICHLOROBENZENE	10U CARBAZOLE
NAPHTHALENE	10U DI-N-BUTYL PHTHALATE
4-CHLORONAPHTHALENE	10U FLUORANTHENE
HEXA(2-CHLOROETHANE)	10U PYRENE
4-CHLORO-3-METHYLPHENOL	10U BENZO(B AND/OR K)FLUORANTHENE
2-METHYLNAPHTHALENE	10U 1,3-DICHLOROBENZIDINE
HEXA(2-CHLOROCYCLOPENTADIENE (HCCP))	10U BENZO(A)ANTHRACENE
2,4,6-TRICHLOROPHENOL	10U CHRYSENE
2,4,5-TRICHLOROPHENOL	10U BIS(2-ETHYLHEXYL) PHTHALATE
2-CHLORONAPHTHALENE	10U DI-N-OCTYL PHTHALATE
2-NITROANILINE	10U BENZO(B AND/OR K)FLUORANTHENE
DIMETHYL PHTHALATE	10U BENZO-A-PYRENE
ACENAPHTHYLENE	10U INDENO (1,2,3-CD) PYRENE
2,6-DINITROTOLUENE	10U DIBENZO(A,H)ANTHRACENE
	10U BENZO(GH)PERYLENE

FOOTNOTES**
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-200 SAMPLE NO: 54458 SAMPLE TYPE: SURFACEWA PROJ FLEM: NSF COLLECTED BY: G.BEINFIELD
 SOURCE: DTCWSOM CO. LF CITY: BUCKSON ST: TN
 STATION ID: SW-04 COLLECTION START: 01/29/91 1140 STOP: 00/00/00
 CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA62

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDEHYDE
0.050U	GAMMA-BHC (LINDANE)	---	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPXIDE	5.0U	TOKAPHENE
0.10U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDOSULFAN II, (BETA)	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N-INTERFERENCES *E-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AAG0

UG/L

ANALYTICAL RESULTS

UG/L

ANALYTICAL RESULTS

10U CHLOROMETHANE
10U BROMOMETHANE
10U VINYL CHLORIDE
10U CHLOROETHANE
20U METHYLENE CHLORIDE
10U ACETONE
10U CARBON DISULFIDE
10U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
10U 1,1-DICHLOROETHANE
10U 1,2-DICHLOROETHENE (TOTAL)
10U CHLOROFORM
10U 1,2-DICHLOROETHANE
10U MÉTHYL ETHYL KETONE
10U 1,1,1-TRICHLOROETHANE
10U CARBON TETRACHLORIDE
10U BROMODICHLOROMETHANE

10U 1,2-DICHLOROPROPANE
10U CIS-1,3-DICHLOROPROPENE
10U TRICHLOROETHENE (TRICHLOROETHYLENE)
10U DIBROMOCHLOROMETHANE
10U 1,1,2-TRICHLOROETHANE
10U BENZENE
10U TRANS-1,3-DICHLOROPROPENE
10U BROMOFORM
10U METHYL ISOBUTYL KETONE
10U METHYL BUTYL KETONE
10U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
10U 1,1,2,2-TETRACHLOROETHANE
10U TOLUENE
10U CHLOROBENZENE
10U ETHYL BENZENE
10U STYRENE
10U TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

- *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
- *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
- *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
- *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. 54498 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF STATION ID: SW-05 CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1110 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: A460
 UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10U PHENOL	50U 3-NITROANILINE
10U BIS(2-CHLOROETHYL) ETHER	10U ACENAPHTHENE
10U 2-CHLOROPHENOL	50U 2,4-DINITROPHENOL
10U 1,3-DICHLOROBENZENE	50U 4-NITROPHENOL
10U 1,4-DICHLOROBENZENE	10U DIBENZOFLUORENE
10U 1,2-DICHLOROBENZENE	10U 2,4-DINITROTOLUENE
10U 2-METHYLPHENOL	10U DIETHYL PHTHALATE
10U 2,2'-CHLOROSOPROPYLETHER	10U 4-CHLOROPHENYL PHENYL ETHER
10U (3-AND/OR 4)-METHYLPHENOL	10U FLUORENE
10U N-NITROSODI-N-PROPYLAMINE	50U 4-NITROANILINE
10U HEXACHLOROETHANE	50U 2-METHYL-4,6-DINITROPHENOL
10U NITROBENZENE	10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U ISOPHORONE	10U 4-BROMOPHENYL PHENYL ETHER
10U 2-NITROPHENOL	50U HEXACHLOROBENZENE (HCB)
10U 2,4-DIMETHYLPHENOL	10U PENTACHLOROPHENOL
10U BIS(2-CHLOROETHOXY) METHANE	10U PHENANTHRENE
10U 2,4-DICHLOROPHENOL	10U PYRACENE
10U 2,4,4-TRICHLOROBENZENE	10U CARBAZOLE
10U NAPHTHALENE	10U DI-N-BUTYL PHTHALATE
10U 4-CHLOROANILINE	10U FLUORANTHENE
10U HEXACHLOROBUTADIENE	10U PYRENE
10U 4-CHLORO-3-METHYLPHENOL	10U BENZYL BUTYL PHTHALATE
10U 2-METHYLNAPHTHALENE	10U 3,3'-DICHLOROBENZIDINE
10U HEXACHLOROCYCLOPENTADIENE (HCCP)	10U BENZO(A)ANTHRACENE
10U 2,4,8-TRICHLOROPHENOL	10U CHRYSENE
50U 2,4,5-TRICHLOROPHENOL	10U BIS(2-HEXYLHEXYL) PHTHALATE
50U 2,4,4-CHLOROPHTHALCNE	10U DI-2-OCTYL PHTHALATE
50U 2-NITROANILINE	10U BENZO(B AND/OR K)FLUORANTHENE
10U DIMETHYL PHTHALATE	10U BENZO-A-PYRENE
10U ACENAPHTHYLENE	10U INDENO (1,2,3-CD) PYRENE
10U 2,6-DINITROTOLUENE	10U DIBENZO(A,H)ANTHRACENE
	10U BENZO(GH)PERYLENE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 **X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 #U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSTS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54436 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AABO MD NO.: AABO

ANALYTICAL RESULTS ug/L

4JH 2-(2-METHYL-BENZYL)-BENZOTHIAZOLONE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-260 SAMPLE NO. 54438 SAMPLE TYPE: SURFACEWA PROG ELEM-NPF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-05 COLLECTION START: 01/29/91 1110 STOP: 00/00/00
CASE NUMBER: 15773 D. NUMBER: AASO

UG/L ANALYTICAL RESULTS

0.050U	ALPHA-BHC
0.050U	BETA-BHC
0.050U	BETA-BHC
0.050U	LINDANE-BHC (LINDANE)
0.050U	HEPTACHLOR
0.050U	ALDRIN
0.050U	HEPTACHLOR EPOXIDE
0.050U	ENDOSULFAN I (ALPHA)
0.100	DIELDRIN
0.100	4,4'-DDE (P,P'-DDE)
0.100	ENDRIN
0.100	ENDOSULFAN II (BETA)
0.100	4,4'-DDD (P,P'-DDD)
0.100	ENDOSULFAN SULFATE
0.100	4,4'-DDT (P,P'-DDT)

UG/L ANALYTICAL RESULTS

0.50U	METHOXYCHLOR
0.10U	ENDRIN KETONE
0.10U	ENDRIN ALDEHYDE
0.050U	CHLORDANE (IND. MIXTURE) /1
0.050U	GAMMA-CHLORDANE /2
0.050U	ALPHA-CHLORDANE /2
5.0U	TOXAPHENE
1.0U	PCB-1016 (AROCLODR 1016)
1.0U	PCB-1221 (AROCLODR 1221)
2.0U	PCB-1232 (AROCLODR 1232)
1.0U	PCB-1242 (AROCLODR 1242)
1.0U	PCB-1248 (AROCLODR 1248)
1.0U	PCB-1254 (AROCLODR 1254)
1.0U	PCB-1260 (AROCLODR 1260)

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 64444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SW-06 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: A468

UG/L

ANALYTICAL RESULTS

ANALYTICAL RESULTS

1OU CHLOROMETHANE
1OU BROMOMETHANE
1OU VINYL CHLORIDE
1OU CHLOROETHANE
1OU METHYLENE CHLORIDE
1OU ACETONE
1OU CARBON DISULFIDE
1OU 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
1OU 1,1-DICHLOROETHANE
1OU 1,2-DICHLOROETHENE (TOTAL)
1OU CHLOROFORM
1OU 1,2-DICHLOROETHANE
1OU METHYL ETHYL KETONE
1OU 1,1,1-TRICHLOROETHANE
1OU CARBON TETRACHLORIDE
1OU BROMODICHLOROMETHANE

1OU 1,2-DICHLOROPROPANE
1OU CIS-1,3-DICHLOROPROPENE
1OU TRICHLOROETHENE(TRICHLOROETHYLENE)
1OU DIBROMOCHLOROMETHANE
1OU 1,1,2-TRICHLOROETHANE
1OU BENZENE
1OU TRANS-1,3-DICHLOROPROPENE
1OU DIBROMOFORM
1OU METHYL ISOBUTYL KETONE
1OU TETRACHLOROETHENE(TETRACHLOROETHYLENE)
1OU 1,1,2,2-TETRACHLOROETHANE
1OU TOLUENE
1OU CHLOROBENZENE
1OU ETHYL BENZENE
1OU STYRENE
1OU TOTAL XYLENES

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54444 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: SW-08 COLLECTION START: 01/29/91 1440 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: A468
 UG/L ANALYTICAL RESULTS UG/L ANALYTICAL RESULTS

10UJ PHENOL	50UJ 3-NITROANILINE
10UJ BIS(2-CHLOROETHYL) ETHER	10UJ ACENAPHTHENE
10UJ 2-CHLOROPHENOL	50UJ 2,4-DINITROPHENOL
10UJ 1,3-DICHLOROBENZENE	50UJ 4-NITROPHENOL
10UJ 1,4-DICHLOROBENZENE	10UJ DIBENZOFURAN
10UJ 1,2-DICHLOROBENZENE	10UJ 2,4-DINITROTOLUENE
10UJ 2-METHYLPHENOL	10UJ DIETHYL PHTHALATE
10UJ 2,2'-CHLOROSOPROPYLETHER	10UJ 4-CHLOROPHENYL PHENYL ETHER
10UJ (3-AND/OR 4-)METHYLPHENOL	10UJ FLUORENE
10UJ N-NITROSODI-N-PROPYLAMINE	50UJ 4-NITRODINITRILE
10UJ HEXACHLOROETHANE	10UJ 2-METHYL-4,6-DINITROPHENOL
10UJ NITROBENZENE	10UJ N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ ISOPHORONE	10UJ 4-BROMOPHENYL PHENYL ETHER
10UJ 2-METHYLPHENOL	50UJ HEXACHLOROBENZENE (HCB)
10UJ BIS(2-CHLOROETHOXY) METHANE	50UJ PENTACHLOROPHENOL
10UJ 2,4-DICHLOROPHENOL	10UJ PERYlene
10UJ 1,2,4-TRICHLOROBENZENE	10UJ ANTHRACENE
10UJ NAPHTHALENE	10UJ CARBAZOLE
10UJ 4-CHLORDINITRILE	10UJ DI-N-BUTYLPHTHALATE
10UJ HEXACHLOROBUTADIENE	10UJ FLUORANTHENE
10UJ 4-CHLORO-3-METHYLPHENOL	10UJ PYRENE
10UJ 2-METHYLNAPHTHALENE	10UJ BENZYL BUTYL PHTHALATE
10UJ HEXACHLOROCYCLOPENTADIENE (HCCP)	10UJ 3,3'-DICHLOROBENZIDINE
10UJ 2,4,4-TRICHLOROPHENOL	10UJ BENZO(A)ANTHRACENE
50UJ 2,4-TETRACHLOROPHENOL	10UJ CHRYSENE
10UJ 2-CHLOROPHENYLPHENOL	10UJ BIS(2-ETHYLHEXYL) PHTHALATE
50UJ 2-NITROANILINE	10UJ DI-2-OCOTYL PHTHALATE
10UJ DIMETHYL PHTHALATE	10UJ BENZO(B AND/OR K)FLUORANTHENE
10UJ ACENAPHTHYLENE	10UJ BENZO-A-PYRENE
10UJ 2,6-DINITROTOLUENE	10UJ INDENO (1,2,3-CD) PYRENE
	10UJ DIBENZO(A,H)ANTHRACENE
	10UJ BENZO(GH)PERYLENE

REMARKS
 HOLDING TIMES EXCEEDED(40 CFR 136.OCTOBER 26,1984)

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54444 SAMPLE TYPE: SURFACEA PROG ELEM-NF COLLECTED BY: G BEINFIELD
 STATE: GEORGIA CITY: DICKSON ST: TN
 STATION ID: SW-08 COLLECTION START: 01/29/91 1440 STOP: 00/00/00
 CASE NUMBER: 1573 SAS NUMBER: D. NUMBER: AAG8

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.050U	ALPHA-BHC	0.50U	METHOXYCHLOR
0.050U	BETA-BHC	0.10U	ENDRIN KETONE
0.050U	DELTA-BHC	0.10U	ENDRIN ALDHYDE
0.050U	GAMMA-BHC (LINDANE)	--	CHLORDANE (TECH. MIXTURE) /1
0.050U	HEPTACHLOR	0.050U	GAMMA-CHLORDANE /2
0.050U	ALDRIN	0.050U	ALPHA-CHLORDANE /2
0.050U	HEPTACHLOR EPOXIDE	5.0U	TOXPAPHEN
0.10U	ENDOSULFAN I (ALPHA)	1.0U	PCB-1016 (AROCOLOR 1016)
0.10U	DIELDRIN	1.0U	PCB-1221 (AROCOLOR 1221)
0.10U	4,4'-DDE (P,P'-DDE)	2.0U	PCB-1232 (AROCOLOR 1232)
0.10U	ENDRIN	1.0U	PCB-1242 (AROCOLOR 1242)
0.10U	ENDOSULFAN II (BETA)	1.0U	PCB-1248 (AROCOLOR 1248)
0.10U	4,4'-DDD (P,P'-DDD)	1.0U	PCB-1254 (AROCOLOR 1254)
0.10U	ENDOSULFAN SULFATE	1.0U	PCB-1260 (AROCOLOR 1260)
0.10U	4,4'-DDT (P,P'-DDT)		

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE -N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *L-ALARM VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *G-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54457 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: TB-OTS

PROC ELEM: NSF COLLECTED BY: G.BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1300 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

O. NO.: AAS1

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

14U	CHLOROMETHANE	14U	1,2-DICHLOROPROPANE
14U	BROMOMETHANE	14U	CIS-1,3-DICHLOROPROPENE
14U	CHLORO CHLORIDE	14U	TRICHLOROETHENE (TRICHLOROETHYLENE)
14U	CHLOROETHANE	14U	DIBROMOCHLOROMETHANE
30U	METHYLENE CHLORIDE	14U	1,1,2-TRICHLOROETHANE
14U	ACETONE	14U	BENZENE
14U	CARBON DISULFIDE	14U	TRANS-1,3-DICHLOROPROPENE
14U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	14U	BROMOFORM
14U	1,1-DICHLOROETHANE	14U	METHYL ISOBUTYL KETONE
14U	1,2-DICHLOROETHENE (TOTAL)	14U	METHYL BUTYL KETONE
14U	CHLOROFORM	14U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
14U	1,2-DICHLOROETHANE	14U	1,1,2,2-TETRACHLOROETHANE
14U	METHYL ETHYL KETONE	14U	TOLUENE
14U	1,1,1-TRICHLOROETHANE	14U	CHLOROBENZENE
14U	CARBON TETRACHLORIDE	14U	ETHYL BENZENE
14U	BROMODICHLOROMETHANE	14U	STYRENE
		28	TOTAL XYLEMES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 01-208 SAMPLE NO. 54428 SAMPLE TYPE: SOIL DRUG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/28/91 1515 STOP: 00/00/00
STATION ID: SS-01

CASE NO.: 15773

SAS NO.:

O. NO.: AAS2

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

13U CHLOROMETHANE	13U 1,2-DICHLOROPROPANE
13U BROMOMETHANE	13U CIS-1,3-DICHLOROPROPENE
13U VINYL CHLORIDE	13U TRICHLOROETHENE (TRICHLOROETHYLENE)
13U CHLOROETHANE	13U DICHLORODIMETHANE
20U METHYLENE CHLORIDE	13U 1,1,2-TRICHLOROETHANE
13U ACETONE	13U BENZENE
13U CARBON DISULFIDE	13U TRANS-1,3-DICHLOROPROPENE
13U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U BROMOFORM
13U 1,1-DICHLOROETHANE	13U METHYL ISOBUTYL KETONE
13U 1,2-DICHLOROETHENE (TOTAL)	13U METHYL BUTYL KETONE
13U CHLOROFORM	13U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U 1,2-DICHLOROETHANE	13U 1,1,2,2-TETRACHLOROETHANE
13U METHYL ETHYLE KETONE	13U TOLUENE
13U 1,1,1-TRICHLOROETHANE	13U CHLORDIENZENE
13U CARBON TETRACHLORIDE	13U EPOXY BENZENE
13U BROMODICHLOROMETHANE	13U STYRENE
	24 TOTAL XYLENES
	24 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NJ-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54428 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SS-01

PROC ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1515 STOP: 00/00/00

CASE NO.: 15779

SAS NO.:

D. NO.: AA52

UG/KG

ANALYTICAL RESULTS

ANALYTICAL RESULTS

430U PHENOL
430U BIS(2-CHLOROETHYL) ETHER
430U 2-CHLOROPHENOL
430U 1,3-DICHLOROBENZENE
430U 1,4-DICHLOROBENZENE
430U 1,2-DICHLOROBENZENE
430U 2-METHYLPHENOL
430U 2,2'-CHLOROISOPROPYLETHER
430U 4-METHYL/4'-METHYLPHENOL
430U N-METHYLDIETHYL-N-PROPYLAMINE
430U HEXACHLOROBUTANE
430U NITROBENZENE
430U ISOPHORONE
430U 2-NITROPHENOL
430U 2,4-DIMETHYLPHENOL
430U BIS(2-CHLOROETHOXY) METHANE
430U 2,4-DICHLOROPHENOL
430U 1,2,4-TRICHLOROBENZENE
430U NAPHTHALENE
430U 2-NITROBENZENE
430U 2-NITROBUTADIENE
430U 4-CHLORO-3-METHYLPHENOL
430U 2-METHYLNAPHTHALENE
430U HEXACHLOROCYCLOCHEPTADIENE (HCCP)
430U 2,4,6-TRICHLOROPHENOL
2200U 2,4,5-TRICHLOROPHENOL
430U 2-CHLORONAPHTHALENE
2200U 2-NITROANILINE
430U DIBUTYL PHthalate
430U ACENAPHTHYLENE
430U 2,6-DINITROTOLUENE

2200U 3-NITROANILINE
430U ACENAPHTHENE
2200U 2,4-DINITROPHENOL
2200U 4-NITROPHENOL
430U DIBENZOFURAN
430U 2,4-DINITROTOLUENE
430U DIETHYL PHthalate
430U 4-CHLOROPHENYL PHENYL ETHER
430U FLUORENE
2200U 2-NITROANILINE
2200U 2-METHYL-4,6-DINITROPHENOL
430U N-NITROSODI(PHENYLAMINE)/DIPHENYLAMINE
430U 4-BROMOPHENYL PHENYL ETHER
430U HEXACHLOROBENZENE (HCB)
2200U PENTACHLOROPHENOL
430U PHENANTHRENE
430U ANTHRACENE
430U CARBAZOLE
430U 2,6-DINITROPHthalate
430U FLUORANTHENE
430U PYRENE
430U BENZYL BUTYL PHthalate
430U 3,3'-DT(HI)DIOXENAZIDINE
430U BENZO(A)ANTHRACENE
430U CHRYSENE
430U BIS(2-ETHYLHEXYL) PHthalate
430U DI-N-OCTYLPHthalate
430U BENZO(B)IND/UR K)FLUORANTHENE
430U BENZO(A)PYRENE
430U BENZOC(1,2-C) PYRENE
430U DIBENZO(A,1)ANTHRACENE
430U BENZO(G,H)PERYLENE
24 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-DC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO.: 0-268 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
CASE NO.: 15778 D. NO.: AAS2 MD NO.: AAS2

ANALYTICAL RESULTS UG/KG

8000J 2 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *MA-NOT ANALYZED *M1-M1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 81-268 SAMPLE NO. 54428 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SS-01 COLLECTION START: 01/28/91 1515 STOP: 00/00/00
 *** CASE NUMBER: 15773 SAS NUMBER: 0. NUMBER: AA52

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.2U	ALPHA-BHC	22U	METHOXYCHLOR
2.2U	DELTA-BHC	4.3U	ENDRIN KETONE
2.2U	GAMMA-BHC (LINDANE)	4.3U	ENDRIN MONODEO
2.2U	HEPTACHLOR	--	CHLORDANE (TECH. MIXTURE) /1
2.2U	ALDRIN	8.2U	8.2U CHLORODANE /2
2.2U	HEPTACHLOR EPoxide	220U	TOXAPHENE
2.2U	ENDOSULFAN I (ALPHA)	43U	PCB-1016 (AROCOLOR 1016)
4.3U	DIELDRIN	43U	PCB-1221 (AROCOLOR 1221)
4.3U	ENDRIN	87U	PCB-1232 (AROCOLOR 1232)
4.3U	ENDOSULFAN II (BETA)	43U	PCB-1242 (AROCOLOR 1242)
4.3U	ENDOSULFAN SULFATE	43U	PCB-1248 (AROCOLOR 1248)
4.3U	ENDOSULFAN (P,P'-DDT)	43U	PCB-1254 (AROCOLOR 1254)
		43U	PCB-1260 (AROCOLOR 1260)
		24	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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 *C-CONFIRMED BY GC/MS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54446 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA70

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	CIS-1,3-DICHLOROPROPENE
12U	VINYL CHLORIDE	12U	TRICHLOROETHENE (TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	DIBRACHLOROETHANE
40U	CHLOROETHYLENE CHLORIDE	12U	1,2,2-TRICHLOROETHANE
12U	ACETONE	12U	BENZENE
12U	CARBON DISULFIDE	12U	TRANS-1,3-DICHLOROPROPENE
12U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U	BROMOFORM
12U	1,1-DICHLOROETHANE	12U	METHYL ISOBUTYL KETONE
12U	1,2-DICHLOROETHENE (TOTAL)	12U	METHYL BUTYL KETONE
12U	CHLOROFORM	12U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
12U	1,2-DICHLOROETHANE	12U	1,1,2,2-TETRACHLOROETHANE
12U	METHYL ETHYL KETONE	12U	TOLUENE
12U	1,1,1-TRICHLOROETHANE	12U	CHLOROBENZENE
12U	CARBON TETRACHLORIDE	12U	ETHYL BENZENE
12U	BROMODICHLOROMETHANE	12U	STYRENE
		12U	TOTAL XYLENES
		12U	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROC ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/30/91 1035 STOP: 00/00/00
STATION ID: SS-02

CASE NO.: 15773

SAS NO.:

D. NO.: A470

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

400U PHENOL
400U BIS(2-CHLOROETHYL) ETHER
400U 2-CHLOROPHENOL
400U 1,3-DICHLOROBENZENE
400U 1,2-DICHLOROBENZENE
400U 1,2-DICHLOROBENZENE
400U 2-METHYLPHENOL
400U 2,2'-CHLOROISOPROPYLETHER
400U (3-AND/OR 4-)METHYLPHENOL
400U N-NITROSODI-N-METHYLAMINE
400U HEKACHLOROETHANE
400U NITROBENZENE
400U ISOPHORONE
400U 2-NITROBENZENE
400U 2,6-DIMETHYLPHENOL
400U BIS(2-CHLOROETHOXY) METHANE
400U 2,4-DICHLOROPHENOL
400U 1,2,4-TRICHLOROBENZENE
400U NAPHTHALENE
400U 4-CHLORDANILINE
400U HEKACHLOROBUTADIENE
400U 4-CHLORO-3-METHYLPHENOL
400U 2-METHYLNAPHTHALENE
400U HEKACHLOROCYCLOPENTADIENE (HCCP)
400U 2,3,4,6-TRICHLOROPHENOL
400U 2-CHLORONAPHTHALENE
2100U 2-NITRODANILINE
2100U 2,2'-BIMETHYL PHthalate
400U ACENAPHTHYLENE
400U 2,6-DINITROTOLUENE

2100U 3-NITROANILINE
400U ACENAPHTHENE
2100U 2,6-DINITROPHENOL
2100U 4-NITROPHENOL
400U DIBENZOFURAN
400U 2,4-DINITROTOLUENE
400U DIETHYL PHthalate
400U 4-CHLOROPHENYL PHENYL ETHER
400U FLUORENE
2100U 4-NITROANILINE
2100U 2-METHYL-4,6-DINITROPHENOL
400U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
400U 4-BENZYLPHENYL PHENYL ETHER
400U HEKACHLOROBENZENE (HCB)
2100U PENTACHLOROPHENOL
85J PYRENANTHRENE
400U ANTHRACENE
400U CARBAZOLE
400U DI-N-BUTYLPHthalate
85J FLUORANTHRENE
85J PYRENE
400U BENZYL BUTYL PHthalate
400U 3,3'-DICHLOROBENZIDINE
400U BIS(2-CHLORO)ANTHRACENE
400U CHRYSENE
400U BIS(2-ETHYLHEXYL) PHthalate
400U DI-N-OCTYLPHthalate
400U BENZO(B AND/OR K)FLUORANTHRENE
400U BENZO-A-PYRENE
400U INDENO (1,2,3-CD) PYRENE
400U DIBENZO(A,H)ANTHRACENE
400U BENZO(GH)PERYLENE
19 PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54446 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SS-02 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
*** CASE NO.: 15773 D. NO.: AA70 MD NO.: AA70 ***
*** SAS NO.: ***

ANALYTICAL RESULTS UG/KG

#001 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 01-286 SAMPLE NO. 54446 SAMPLE TYPE: SOIL
 SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 STATION ID: SS-02 CITY: DICKSON ST: TN
 CASE NUMBER: 15773 COLLECTION START: 01/30/91 1035 STOP: 00/00/00
 SAS NUMBER: D. NUMBER: AA70

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC	21U	METHOXYCHLOR
2.1U	BETA-BHC	4.1U	ENDRIN KETONE
2.1U	DELTA-BHC	4.1U	ENDRIN ALDEHYDE
2.1U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.1U	HEPTACHLOR	—	CHLORDANE /2
2.1U	ALDRIN	210U	TOKAPHENE
2.1U	HEPTACHLOR EPOXIDE	41U	PCB-1016 (AROCOLOR 1016)
2.1U	ENDOSULFAN I (ALPHA)	41U	PCB-1221 (AROCOLOR 1221)
4.1U	DIELDRIN	81U	PCB-1232 (AROCOLOR 1232)
4.1U	ENDDUE (P,P'-ODE)	41U	PCB-1235 (AROCOLOR 1235)
4.1U	ENDRIN	41U	PCB-1243 (AROCOLOR 1243)
4.1U	ENDOSULFAN II (BETA)	41U	PCB-1248 (AROCOLOR 1248)
4.1U	4,4'-DDD (P,P'-ODD)	41U	PCB-1254 (AROCOLOR 1254)
7.2U	ENDOSULFAN SULFATE	41U	PCB-1260 (AROCOLOR 1260)
4.1U	4,4'-DDT (P,P'-DDT)	19	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

*** PROJECT NO: 91-268 SAMPLE NO: 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: C. BEINFIELD
 *** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 *** STATION ID: SS-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00

*** CASE NO.: 15773 SAS NO.: AAT2 D. NO.: AA72

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	1,1,2,2-TETRACHLOROPROPENE
12U	VINYL CHLORIDE	12U	TETRACHLOROETHANE (TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	DIBROMOCHLOROMETHANE
60U	METHYLENE CHLORIDE	12U	1,1,2-TRICHLOROETHANE
12U	ACETONE	12U	BENZENE
12U	CARBON DISULFIDE	12U	TRANS-1,3-DICHLOROPROPENE
12U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)	12U	BROMOFORM
12U	1,1-DICHLOROETHANE	12U	METHYL ISOBUTYL KETONE
12U	1,2-DICHLOROETHENE (TOTAL)	12U	METHYL BUTYL KETONE
12U	CHLOROFORM	12U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12U	1,2-DICHLOROETHANE	12U	1,1,2,2-TETRACHLOROETHANE
12U	METHYL ETHYL KETONE	12U	TOLUENE
12U	1,1,1-TRICHLOROETHANE	12U	CHLOROBENZENE
12U	CARBON TETRACHLORIDE	12U	ETHYL BENZENE
12U	BROMODICHLOROMETHANE	12U	STYRENE
		19	TOTAL XYLEMES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: SS-03

CASE NO.: 15773

SAS NO.:

D. NO.: AA72

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

400U PHENOL
400U BIS(2-CHLOROETHYL) ETHER
400U 2-CHLOROPHENOL
400U 1,3-DICHLOROBENZENE
400U 1,4-DICHLOROBENZENE
400U 1,2-DICHLOROBENZENE
400U 2-METHYLPHENOL
400U 2,2'-CHLOROSOPROPYLETHER
400U (3-AND/OR 4-METHYLPHENOL
400U N-NITROSO(N-N-PROPYLAMINE
400U HEXACHLOROETHANE
400U 1,4-PHENOXENE
400U 1,5-PHENOXANE
400U 2-NITROPHENOL
400U 2,4-DIMETHYLPHENOL
400U BIS(2-CHLOROETHOXY) METHANE
400U 2,4-DICHLOROPHENOL
400U 1,2,4-TRICHLOROBENZENE
400U NAPHTHALENE
400U 4-CHLORANILINE
400U HEXACHLOROBUTADIENE
400U 4-CHLORO-3-METHYLPHENOL
400U 2-METHYLCHLOROPHENOL
400U BIS(2-CHLOROCYCLOPENTADIENE) (MCP)
400U 2,4,6-TRICHLOROPHENOL
2100U 2,4,6-TRICHLOROPHENOL
400U 2-CHLOROMPHTHALENE
2100U 2-NITROANILINE
400U DIMETHYL PHTHALATE
400U ACENAPHTHYLENE
400U 2,6-DINITROTOLUENE

2100U 3-NITROANILINE
400U ACENAPHTHENE
2100U 2,4-DINITROPHENOL
2100U 4-NITROPHENOL
400U DIBENZOFURAN
400U 2,4-DINITROTOLUENE
400U DIETHYL PHTHALATE
400U 4-CHLOROPHENYL PHENYL ETHER
400U FLUORENE
2100U 4-NITROANILINE
2100U 2,4,6-TRINITROPHENOL
400U N-NITROSO(N-PHENYLAMINE)/DIPHENYLAMINE
400U 4-BROMOPHENYL PHENYL ETHER
400U HEXACHLOROBENZENE (HCB)
2100U PENTACHLOROPHENOL
400U PHENANTHRENE
400U ANTHRACENE
400U CARBAZOLE
400U DI-N-BUTYL PHTHALATE
400U FLUORANTHENE
400U PYRENE
400U DI-N-BUTYL PHTHALATE
400U 3,3'-DICHLOROBENZIDINE
400U BENZO(A)ANTHRACENE
400U CHRYSENE
400U BIS(2-ETHYLHEXYL) PHTHALATE
400U DI-N-OCTYL PHTHALATE
400U BENZO(B AND/OR K)FLUORANTHENE
400U BENZO-A-PYRENE
400U INDENO (1,2,3-CD) PYRENE
400U BENZO(A,H)ANTHRACENE
400U BENZO(G,H)PERYLENE
19 PERCENT MOISTURE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54448 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: 55-03 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA72 MD NO.: AA72

ANALYTICAL RESULTS UG/KG

00000: 10 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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PESTICIDES/PCB'S DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PROJECT NO. 91-206 SAMPLE NO. 54448 SAMPLE TYPE: SOIL
 SOURCE: DICKSON CO. LF
 STATION ID: 55-09
 CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 CITY: DICKSON ST: TN
 COLLECTION START: 01/30/91 1230 STOP: 00/00/00
 D. NUMBER: AA72

UG/KG

ANALYTICAL RESULTS

2.1UR ALPHA-BHC
 2.1UR BETA-BHC
 1UR DELTA-BHC
 1UR GAMMA-BHC (LINDANE)
 2.1UR HEPTACHLOR
 2.1UR ALDRIN
 2.1UR HEPTACHLOR EPOKIDE
 2.1UR ENDOSULFAN I (ALPHA)
 4.OUR DIELDRIN
 2.1UR DDE (P,P'-DDE)
 4.OUR ENDRIN
 4.OUR ENDOSULFAN II (BETA)
 2.1UR DDD (P,P'-DDD)
 4.OUR ENDOSULFAN SULFATE
 4.OUR 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

21UR METHOXYCHLOR
 4.OUR ENDRIN KETONE
 4.OUR ENDRIN ALDEHYDE
 - CHLORDANE (TECH. MIXTURE) /1
 2.1UR QUAD-CHLORDANE /2
 2.1UR ALPHA-CHLORDANE /2
 21OUR TOXAPHENE
 4OUR PCB-1016 (AROCOLOR 1016)
 4OUR PCB-1221 (AROCOLOR 1221)
 81UR PCB-1232 (AROCOLOR 1232)
 4OUR PCB-1242 (AROCOLOR 1242)
 4OUR PCB-1248 (AROCOLOR 1248)
 4OUR PCB-1254 (AROCOLOR 1254)
 4OUR PCB-1260 (AROCOLOR 1260)
 419 PERCENT MOISTURE

REMARKS
 EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-COMFIRMED BY GCMS
 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-260 SAMPLE NO. S442D SAMPLE TYPE: SOIL PROB ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00

CASE NO.: 15773 D. NO.: A453 04/30/91

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
12U	CHLOROMETHANE	12U	1,2-DICHLOROPROPANE
12U	BROMOMETHANE	12U	CIS-1,3-DICHLOROPROPENE
12U	1,1,2-TRICHLORIDE	12U	TRICHLOROETHENE (TRICHLOROETHYLENE)
12U	CHLOROETHANE	12U	DIBROMOCHLOROMETHANE
12U	METHYLENE CHLORIDE	12U	1,2,2-TRICHLOROETHANE
12U	ACETONE	12U	BENZENE
12U	CARBON DISULFIDE	12U	TRANS-1,3-DICHLOROPROPENE
12U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	12U	BROMOFORM
12U	1,1-DICHLOROETHANE	12U	METHYL ISOBUTYL KETONE
12U	1,2-DICHLOROETHENE (TOTAL)	12U	METHYL BUTYL KETONE
12U	CHLOROFORM	12U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
12U	1,2-DICHLOROETHANE	12U	1,1,2,2-TETRACHLOROETHANE
12U	METHYL ETHYL KETONE	12U	TOLUENE
12U	1,1,2-TRICHLOROETHANE	12U	CHLORDBENZENE
12U	CARBON TETRACHLORIDE	12U	ETHYL BENZENE
12U	BROMODICHLOROMETHANE	12U	STYRENE
		18	TOTAL XYLENES
			18 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

EXTRACTABLE ORGANICS DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/23/91

PROJECT NO. 01-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL
 SOURCE: DICKSON CO. LF
 STATION ID: SB-01

PROC ELEM: NSF COLLECTED BY: G BEINFIELD
 CITY: DICKSON ST: TN
 COLLECTION START: 01/28/91 1530 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AAS3

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

400U PHENOL
 400U BIS(2-CHLOROETHYL) ETHER
 400U 2-CHLOROPHENOL
 400U 1,3-DICHLOROBENZENE
 400U 1,4-DICHLOROBENZENE
 400U 1,2-DICHLOROBENZENE
 400U 2,4-DIMETHYLPHENOL
 400U 2-(2-CHELODIPROPYL)ETHER
 400U 2,3-AND/2,4-METHYLPHENOL
 400U M-NITROSO1-N-PROPYLAMINE
 400U HEXACHLOROBUTANE
 400U NITROBENZENE
 400U ISOPHORONE
 400U 2-NITROPHENOL
 400U 2,4-DIMETHYLPHENOL
 400U BIS(2-CHLOROETHOXY) METHANE
 400U 2,4-DICHLOROPHENOL
 400U 2,4,6-TRICHLOROBENZENE
 400U MARATHONE
 400U 4-CHLORANILINE
 400U HEXACHLOROBUTADIENE
 400U 4-CHLORO-3-METHYLPHENOL
 400U 2-METHYLNAPHTHALENE
 400U HEXACHLOROCYCLOCOPENTADIENE (HCCP)
 400U 2,4,6-TRICHLOROPHENOL
 2100U 2,4,5-TRICHLOROPHENOL
 400U 2-CHLORONAPHTHALENE
 2100U 2-NITROANILINE
 400U DIMETHYL PHTHALATE
 400U ACENAPHTHENE
 400U 2,6-DINITROTOLUENE

2100U 3-NITROANILINE
 400U ACENAPHTHENE
 2100U 2,4-DINITROPHENOL
 2100U 4-NITROPHENOL
 400U DIBENZOFURAN
 400U 2,4-DINITROTOLUENE
 400U DIETHYL PHTHALATE
 400U 4-CHLOROPHENYL PHENYL ETHER
 400U FLUORENE
 2100U 4-NITROANILINE
 2100U 2-METHYL-4,6-DINITROPHENOL
 400U M-NITROSO1-PHENYLAMINE/DIPHENYLAMINE
 400U 4-BROMOPHENYL PHENYL ETHER
 400U HEXACHLOROBENZENE (HCB)
 2100U PENTACHLOROPHENOL
 400U PHENANTHRENE
 400U ANTHRACENE
 400U CARBAZOLE
 400U 2,4,5-TRICHLOROPHENOL
 400U FLUORANTHENE
 400U PYRENE
 400U BENZYL BUTYL PHTHALATE
 400U 3,3'-DICHLOROBENZIDINE
 400U BENZO(A)ANTHRACENE
 400U CHRYSENE
 400U BIS(2-ETHYLHEXYL) PHTHALATE
 400U DI-N-OCTYLPHTHALATE
 400U BENZO(B) AND/OR K FLUORANTHENE
 400U BENZO(A)-PYRENE
 400U DIBENZO(A,E) PYRENE
 400U DIBENZO(A,G)ANTHRACENE
 400U BENZODI(M)PERYLENE
 18 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NJI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *R-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA53 MD NO.: AA53

ANALYTICAL RESULTS UG/KG

80005* 1 UNIDENTIFIED COMPOUND*

FOOTNOTES
*AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
**-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54429 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G. BEINFELD
 SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
 STATION ID: SB-01 COLLECTION START: 01/28/91 1530 STOP: 00/00/00
 CASE NUMBER: 15773 D. NUMBER: AAS3

UG/KG	ANALYTICAL RESULTS
2.0U	ALPHA-BHC
2.0U	BETA-BHC
2.0U	DELTA-BHC
2.0U	GAMMA-BHC (LINDANE)
2.0U	HEPTACHLOR
2.0U	HEPTACHLOR EPOXIDE
4.0U	ENDOSULFAN I (ALPHA)
4.0U	DIELDRIN
4.0U	4,4'-DDE (P,P'-DDE)
4.0U	ENDRIN
4.0U	ENDOSULFAN II (BETA)
4.0U	4,4'-DDD (P,P'-DDD)
4.0U	ENDOSULFAN SULFATE
4.0U	4,4'-DDT (P,P'-DDT)
2.0U	METHOXYCHLOR
4.0U	ENDRIN KETONE
4.0U	ENDRIN ALDEHYDE
--	CHLORDANE (TECH. MIXTURE) /1
2.0U	BAKAPOL-CHLORDANE /2
2.0U	PCB-1016 (AROCOLOR 1016)
4.0U	PCB-1221 (AROCOLOR 1221)
8.0U	PCB-1232 (AROCOLOR 1232)
4.0U	PCB-1242 (AROCOLOR 1242)
4.0U	PCB-1248 (AROCOLOR 1248)
4.0U	PCB-1254 (AROCOLOR 1254)
4.0U	PCB-1260 (AROCOLOR 1260)
18	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GC/MS / WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF PROC ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: SB-02 CITY: DICKSON ST: TN COLLECTION START: 01/30/91 1125 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA71

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

13U CHLOROMETHANE	13U 1,2-DICHLOROPROPANE
13U BROMOMETHANE	13U CIS-1,3-DICHLOROPROPENE
13U VINYL CHLORIDE	13U TRICHLOROETHENE (TRICHLOROETHYLENE)
13U CHLOROETHANE	13U DISBROMOCHLOROMETHANE
70U CHLOROETHYLENE CHLORIDE	13U 1,2,2-TRICHLOROETHANE
13U ACETONE	13U BENZENE
13U CARBON DISULFIDE	13U TRANS-1,3-DICHLOROPROPENE
13U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U BROMOFORM
13U 1,1-DICHLOROETHANE	13U METHYL ISOBUTYL KETONE
13U 1,2-DICHLOROETHENE (TOTAL)	13U METHYL BUTYL KETONE
13U CHLOROFORM	13U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U 1,2-DICHLOROETHANE	13U 1,1,2,2-TETRACHLOROETHANE
13U MÉTHYL ETHYL KETONE	13U TOLUENE
13U 1,1,1-TRICHLOROETHANE	13U CHLOROBENZENE
13U CARBON TETRACHLORIDE	13U ETHYL BENZENE
13U BROMODICHLOROMETHANE	13U STYRENE
	13U TOTAL XYLENES
	21 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
** STATION ID: SB-02 COLLECTION START: 01/30/91 1125 STOP: 00/00/00

** CASE NO.: 15773

SAS NO.:

D. NO.: A471

UG/KG

ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

410U PHENOL
410U BIS(2-CHLOROETHYL) ETHER
410U 2-CHLOROPHENOL
410U 1,3-DICHLOROBENZENE
410U 1,4-DICHLOROBENZENE
410U 1,2-DICHLOROBENZENE
410U 2-METHYLPHENOL
410U 2,2'-CHLORODISOPROPYLEther
410U (3-ANILINYL)-4-METHYLPHENOL
410U M-CHLORO-N-(M-CHLOROAMINO)HEXACHLOROBUTANE
410U NITROBENZENE
410U ISOPHORONE
410U 2-NITROPHENOL
410U 2,4-DIMETHYLPHENOL
410U BIS(2-CHLOROETHOKY) METHANE
410U 2,4-DICHLOROPHENOL
410U 1,2,4-TRICHLOROBENZENE

410U 4-CHLORDINITIENE
410U HEXACHLOROBUTADIENE
410U 4-CHLORO-3-METHYLPHENOL
410U 2-METHYLNAPHTHALENE
410U HEXACHLOROCYCLOPENTADIENE (HCCP)
410U 2,4,6-TRICHLOROPHENOL
2100U 2,4,5-TRICHLOROPHENOL
410U 2-CHLORONAPHTHALENE
2100U 2-NITROANILINE
410U DIETHYL PHTHALATE
410U ACENAPHTHYLENE
410U 2,6-DINITROTOLUENE

2100U 3-NITROANILINE
410U ACENAPHTHENE
2100U 2,4-DINITROPHENOL
2100U 4-NITROPHENOL
410U DIBENZOFURAN
410U 2,4-DINITROTOLUENE
410U DIETHYL PHTHALATE
410U 4-CHLOROPHENYL PHENYL ETHER
410U FLUORANTHENE
2100U 4-NITROANILINE
2100U 2-METHYL-4,6-DINITROPHENOL
410U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
410U 4-BROMOPHENYL PHENYL ETHER
410U HEXACHLOROBENZENE (HCB)
2100U PENTACHLOROPHENOL
410U PHENANTHRENE
410U ANTHRACENE
410U CARBAZOLE
410U DI-2-BUTYLPHTHALATE
410U FLUORANTHENE
410U PYRENE
410U BENZYL BUTYL PHTHALATE
410U 3,3'-DICHLOROBENZIDINE
410U BENZO(A)ANTHRACENE
410U CHRYSENE
410U BIS(2-ETHYLHEXYL) PHTHALATE
410U DI-N-OCTYLPHTHALATE
410U BENZOB_A AND/OR K FLUORANTHENE
410U BENZOB_A PYRENE
410U DIBENZO (1,2,3-CD) PYRENE
410U DIBENZO(1,2,3-CD)ANTHRACENE
410U BENZO(GH)PERYLENE
21 PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54447 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF
STATION ID: SB-02
CASE NUMBER: 15773 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/30/91 1125 STOP: 00/00/00
D. NUMBER: AA71

UG/KG ANALYTICAL RESULTS

2.1U ALPHA-BHC
2.1U BETA-BHC
2.1U DELTA-BHC
2.1U GAMMA-BHC (LINDANE)
2.1U HEPTACHLOR
2.1U ALDRIN
2.1U HEPTACHLOR EPONIDE
2.1U ENDOSULFAN I (ALPHA)
4.1U Dieldrin
4.1U DDE (P,P'-DDE)
4.1U Endrin
4.1U ENDOSULFAH II (BETA)
4.1U 4,4'-DDD (P,P'-DDD)
4.1U ENDOSULFAN SULFATE
4.1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

21U METHOXYCHLOR
4.1U ENDRIN KETONE
4.1U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
2.1U GAMMA-CHLORDANE /2
2.1U ALPHA-CHLORDANE /2
21U TOXIN
41U PCB-1016 (AROCOLOR 1016)
41U PCB-1221 (AROCOLOR 1221)
83U PCB-1232 (AROCOLOR 1232)
41U PCB-1242 (AROCOLOR 1242)
41U PCB-1248 (AROCOLOR 1248)
41U PCB-1254 (AROCOLOR 1254)
41U PCB-1260 (AROCOLOR 1260)
21 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETERMINED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-288 SAMPLE NO. S4449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: SB-03
CITY: DICKSON STATE: TN COLLECTION START: 01/30/91 1250 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

O. NO.: AA73

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

12U CHLOROMETHANE
12U BROMOMETHANE
12U VINYL CHLORIDE
12U CHLOROETHANE
40U METHYLENE CHLORIDE
50U
12U CARBON DISULFIDE
12U 1,1-DICHLOROETHANE (1,1-DICHLOROETHYLENE)
12U 1,1-DICHLOROETHANE
12U 1,2-DICHLOROETHENE (TOTAL)
12U CHLOROFORM
12U 1,2-DICHLOROETHANE
12U METHYL ETHYL KETONE
12U 1,1,1-TRICHLOROETHANE
12U CARBON TETRACHLORIDE
12U BROMODICHLOROMETHANE

12U 1,2-DICHLOROPROPANE
12U CIS-1,3-DICHLOROPROPENE
12U TRICHLOROETHENE (TRICHLOROETHYLENE)
12U DICHLOROMETHANE
12U 1,1,2-TRICHLOROETHANE
12U BENZENE
12U TRANS-1,3-DICHLOROPROPENE
12U BROMOFORM
12U METHYL ISOBUTYL KETONE
12U METHYL BUTYL KETONE
12U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
12U 1,1,2,2-TETRACHLOROETHANE
12U TOLUENE
12U CHLOROBENZENE
12U ETHYL BENZENE
12U STYRENE
12U TOTAL XYLEMES
20 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

*** PROJECT NO. 91-266 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
*** SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** STATION ID: SB-03 CITY: DICKSON ST: TN COLLECTION START: 01/30/91 1250 STOP: 00/00/00

*** CASE NO.: 15773 SAS NO.: D. NO.: AA73

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
1600U	PHENOL	8400U	3-NITROANILINE
1600U	BIS(2-CHLOROETHYL) ETHER	1600U	ACENAPHTHENE
1600U	2-CHLOROPHENOL	8400U	2,4-DINITROPHENOL
1600U	1,3-DICHLOROBENZENE	8400U	4-NITROPHENOL
1600U	1,4-DICHLOROBENZENE	1600U	1,3BENZOFURAN
1600U	1,2-DICHLOROBENZENE	1600U	2,4-DINITROTOLUENE
1600U	2-METHYLPHENOL	1600U	DIETHYL PHthalate
1600U	2,2'-CHLOROISOPROPYLETHER	1600U	4-CHLOROPHENYL PHENYL ETHER
1600U	(3-AND/OR 4-)METHYLPHENOL	1600U	FLUORENE
1600U	N-NITROSO(DI-N-PROPYLAMINE	8400U	4-NITROANILINE
1600U	METHYLCHLORIDE	1600U	2,4,6-TRINITROPHENOL
1600U	HEXAHALOETHANE	1600U	M-NITROSO(DIPHENYLAMINE/DIPHENYLAMINE
1600U	NITROGENENE	1600U	4-BROMOPHENYL PHENYL ETHER
1600U	ISOPHORONE	1600U	HEXAHALOAROMATIC (HCA)
1600U	2-NITROPHENOL	8400U	PENTACHLOROPHENOL
1600U	2,4-DIMETHYLPHENOL	1600U	PHENANTHRENE
1600U	BIS(2-CHLOROETHOKY) METHANE	1600U	ANTHRACENE
1600U	2,4-DICHLOROPHENOL	1600U	CARBAZOLE
1600U	1,2,4-TRICHLOROBENZENE	1600U	DI-2-BUTYLPHthalate
1600U	CHTNALENE	1600U	FLUORANTHENE
1600U	4-CHLOROPHENOL	1600U	PYRENE
1600U	HEXAHALOAROMATIC	1600U	BENZYL BUTYL PHthalate
1600U	4-CHLORO-3-METHYLPHENOL	1600U	3,3'-DICHLOROBENZIDINE
1600U	2-METHYLNAPHTHALENE	1600U	BENZO(L)ANTHRACENE
1600U	HEXAHALOCYCLOPENTADIENE (HCP)	1600U	CHRYSENE
1600U	2,4,6-TRICHLOROPHENOL	1600U	BIS(2-ETHYLHEXYL) PHthalate
8400U	2,4,5-TRICHLOROPHENOL	1600U	DI-N-OCTYLPHthalate
1600U	2-CHLORONAPHTHALENE	1600U	BENZO(B AND/OR K)FLUORANTHENE
8400U	2-NITROANILINE	1600U	BENZO-A-PYRENE
1600U	DIMETHYL PHthalate	1600U	INDENE (1,2,3-CD) PYRENE
1600U	ACENAPHTHYLENE	1600U	DI-BENZO(A,H)ANTHRACENE
1600U	2,6-DINITROTOLUENE	1600U	BENZO(GH)PYRENE
20	PERCENT MOISTURE		

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/I-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS -- DATA REPORT

PROJECT NO. 91-208 SAMPLE NO. 54449 SAMPLE TYPE: SOIL PROD ELEM: NSF COLLECTED BY: G.BEINFLID
SOURCE: DICKSON CO. LP CITY: DICKSON ST: TN
STATION ID: SB-03 COLLECTION START: 01/30/91 1250 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA73 MD NO.: AA73

ANALYTICAL RESULTS UC/KG

40000 ** UNIDENTIFIED COMPOUND
N PETROLEUM PRODUCT

FOOTNOTES
*A-INTERE VALUE *NA-NOT ANALYZED *MAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-RETON IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54449 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: 58-03 CITY: DICKSON ST: TN
CASE NUMBER: 15773 SAS NUMBER: 04/30/91 1250 STOP: 00/00/00
D. NUMBER: AA73

UG/KG ANALYTICAL RESULTS

2.1U ALPHA-BHC
2.1U BETA-BHC
2.1U DELTA-BHC
3.8U GAMMA-BHC (LINDANE)
2.1U HEPATACHLOR
2.1U HEPATACHLOR EPONIDE
2.1U ENDOSULFAN I (ALPHA)
4.1U DIELDRIN
4.1U 4,4'-DDE (P,P'-DDE)
6.0U ENDRIN
4.1U ENDOSULFAN II (BETA)
4.1U 4,4'-DDD (P,P'-DDD)
4.1U ENDOSULFAN SULFATE
4.1U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

21U METHOXYCHLOR
4.1U ENDRIN KETONE
4.1U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
PO GAMMA-CHLORDANE /9
96 ALPHA-CHLORDANE /8
210U TOXAPHENE
41U PCB-1016 (AROCLOL 1016)
41U PCB-1221 (AROCLOL 1221)
82U PCB-1232 (AROCLOL 1232)
41U PCB-1242 (AROCLOL 1242)
41U PCB-1248 (AROCLOL 1248)
41U PCB-1254 (AROCLOL 1254)
41U PCB-1260 (AROCLOL 1260)
20 PERCENT MOISTURE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-DC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54435 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: SD-01

PROG ELEM: NSF COLLECTED BY: G BRINFIELD
CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA59

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

15U CHLOROMETHANE
15U BROMOMETHANE
15U VINYL CHLORIDE
15U CHLOROETHANE
30U METHYLENE CHLORIDE
15U ACETONE
15U CARBON DISULFIDE
15U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
15U 1,1-DICHLOROETHANE
15U 1,2-DICHLOROETHENE (TOTAL)

15U 1,2-DICHLOROPROPANE
15U CIS-1,3-DICHLOROPROPENE
15U TRICHLOROETHENE (TRICHLOROETHYLENE)
15U DIBROMOCHLOROMETHANE
15U 1,1,2-TRICHLOROETHANE
15U BENZENE
15U TRANS-1,3-DICHLOROPROPENE
15U BROMOFORM
15U METHYL ISOBUTYL KETONE
15U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
15U 1,1,2,2-TETRACHLOROETHANE
15U TOLUENE
15U CHLOROBENZENE
15U ETHYL BENZENE
15U STYRENE
15U M-XYLEMES

34 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *I-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
OK-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *R-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
ND-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
NR-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSP COLLECTED BY: C BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: A459

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

500U PHENOL	2500U 3-NITROANILINE
500U 6TS(2-CHLOROETHYL) ETHER	500U ACENAPHTHENE
500U 2-CHLOROPHENOL	2500U 2,4-DINITROPHENOL
500U 1,3-DICHLOROBENZENE	2500U 4-MITROPHENOL
500U 1,4-DICHLOROBENZENE	500U DIETHYL PHTHALATE
500U 1,2-DICHLOROBENZENE	500U 2,4-DINITROTOLUENE
500U 2-METHYLPHENOL	500U DIETHYL PHTHALATE
500U 2,2'-CHLORODISOPROPYLETHER	500U 4-CHLOROPHENYL PHENYL ETHER
500U (3-AND/OR-4-METHYLPHENOL	500U FLUORENE
500U N-NITROSODI-N-PROPYLAMINE	2500U 4-NITROANILINE
500U HEXACHLOROETHANE	2500U 2-METHYL-4,6-DINITROPHENOL
500U NITROBENZENE	500U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
500U ISOPHORONE	500U 4-BROMOPHENYL PHENYL ETHER
500U 2-NITROPHENOL	500U HEXACHLOROBENZENE (HCB)
500U 2,4-DIMETHYLPHENOL	2500U 4,4'-DINITROPHENOL
500U 6TS(2-CHLOROETHYL) METHANE	500U PYRENTHACENE
500U 2,4-DICHLOROPHENOL	500U ANTHRACENE
500U 1,2,4-TRICHLOROBENZENE	500U CARBAZOLE
500U NAPHTHALENE	500U DI-N-BUTYL PHTHALATE
500U 4-CHLORDANILINE	500U FLUORANTHENE
500U HEXACHLOROBUTADIENE	500U PYRENE
500U 4-CHLORO-3-METHYLPHENOL	500U BENZYL BUTYL PHTHALATE
500U 2-METHYLNAPHTHALENE	500U 3,3'-DICHLOROBENZIDINE
500U HEXACHLOROCYCLOPENTADIENE (HCCP)	500U BENZO(A)ANTHRACENE
500U 2,4,6-TRICHLOROPHENOL	500U CHRYSENE
2500U 2,4,6-TRICHLOROPHENOL	500U 815,2-(METHYLHEXYL) PHTHALATE
500U 2,4,6-TRICHLOROBENZENE	500U 2,2-DI-OCTYL PHTHALATE
2500U 2-NITROCANILINE	500U BENZO(B AND/OR K)FLUORANTHENE
500U 2,4-NITROPHENOL	500U BENZO-A-PYRENE
500U ACENAPHTHYLENE	500U INDENO (1,2,3-CD) PYRENE
500U 2,6-DINITROTOLUENE	500U DIBENZO(A,H)ANTHRACENE

34 PERCENT MOISTURE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *H-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54435 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON STATE: TN
STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA59 MD NO.: AA59

ANALYTICAL RESULTS UG/KG

0000J 3 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/AI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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PESTICIDES/PCB'S DATA REPORT

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PROJECT NO: 91-268 SAMPLE NO: 54435 SAMPLE TYPE: SOIL
 SOURCE: DICKSON CO LF CITY: DICKSON ST: TN
 STATION ID: SD-01 COLLECTION START: 01/29/91 1030 STOP: 00/00/00
 CASE NUMBER: 15773 D. NUMBER: A459

UG/KG ANALYTICAL RESULTS

2.5U ALPHA-BHC
 2.5U BETA-BHC
 2.5U DELTA-BHC
 2.5U HEPTACHLOR
 2.5U HEPTACHLOR EPOXIDE
 2.5U ENDOSULFAN I (ALPHA)
 4.9U Dieldrin
 4.9U Endosulfan II (P,P'-DDT)
 4.9U Endosulfan II (BETA)
 4.9U Endosulfan Sulfate
 4.9U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

25U METHOXYCHLOR
 4.9U ENDRIN KETONE
 4.9U ENDRIN ALDEHYDE
 250U CHLORDANE (TECH. MIXTURE) /1
 2.5U GAMMA-CHLORDANE /2
 2.5U ALPHA-CHLORDANE /2
 250U TOXAPENE
 49U PCB-1016 (AROCLOL 1016)
 49U PCB-1221 (AROCLOL 1221)
 49U PCB-1232 (AROCLOL 1232)
 49U PCB-1242 (AROCLOL 1242)
 49U PCB-1248 (AROCLOL 1248)
 49U PCB-1254 (AROCLOL 1254)
 49U PCB-1260 (AROCLOL 1260)
 34 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-26B SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF STATION ID: SD-02 CITY: DICKSON ST: TN PROG ELEM: NSF COLLECTED BY: G BEINFIELD COLLECTION START: 01/29/91 1220 STOP: 00/00/00

CASE NO.: 15773 SAS NO.: D. NO.: AA64

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
15U	CHLOROMETHANE	15U	1,2-DICHLOROPROPANE
15U	DROMOMETHANE	15U	CIS-1,3-DICHLOROPROPENE
15U	VINYL CHLORIDE	15U	TRICHLOROETHENE (TRICHLOROETHYLENE)
15U	CHLOROETHANE	15U	DIBROMOCHLOROMETHANE
40U	METHYLENE CHLORIDE	15U	1,1,2-TRICHLOROETHANE
15U	ACETONE	15U	DENZENE
15U	CARBON DISULFIDE	15U	TRANS-1,3-DICHLOROPROPENE
15U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	15U	BROMOFORM
15U	1,1-DICHLOROETHANE	15U	METHYL ISOBUTYL KETONE
15U	1,2-DICHLOROETHENE (TOTAL)	15U	METHYL BUTYL KETONE
15U	CHLOROFORM	15U	TETRACHLOROETHENE/TETRACHLOROETHYLENE
15U	1,2-DICHLOROETHANE	15U	1,1,2-TETRACHLOROETHANE
15U	METHYL ETHYL KETONE	15U	TOLUENE
15U	1,1,1-TRICHLOROETHANE	15U	CHLOROBENZENE
15U	CARBON TETRACHLORIDE	15U	ETHYL BENZENE
15U	BROMODICHLOROMETHANE	15U	STYRENE
34		15U	TOTAL XYLENES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *P-N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. S4440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF ST: TN CITY: DICKSON COLLECTION START: 01/29/91 1220 STOP: 00/00/00
STATION ID: SD-02

CASE NO.: 15773

SAS NO.:

D. NO.: AA64

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

490U PHENOL
490U BIS(2-CHLOROETHYL) ETHER
490U 2-CHLOROPHENOL
490U 1,3-DICHLOROBENZENE
490U 1,4-DICHLOROBENZENE
490U 1,2-DICHLOROBENZENE
490U 2-METHYLPHENOL
490U 2-(2-CHLOROISOPROPYLETHER
490U (3-AND/OR 4-)METHYLPHENOL
490U N-NITROSO(1-N-PROPYLAMINE
490U HEXACHLORODETHANE
490U NITROBENZENE
490U ISOPHORONE
490U 2-NITROPHENOL
490U 2,4-DIMETHYLPHENOL
490U BIS(2-CHLOROETHOXY) METHANE
490U 2,4-DICHLOROPHENOL
490U 1,4-DICHLOROBENZENE
490U NAPHTHALENE
490U 4-CHLORDANTHENE
490U HEXACHLOROBUTADIENE
490U 4-CHLORO-3-METHYLPHENOL
490U 2-METHYLNAPHTHALENE
490U HEXACHLOROCYCLOPENTADIENE (HCCP)
490U 2,4,6-TRICHLOROPHENOL
2500U 2,4,6-TRICHLOROPHENOL
490U 2-CHLORONAPHTHALENE
2500U 2-NITRODANTHENE
490U DIMETHYL PHthalate
490U ACENAPHTHYLENE
490U 2,6-DINITROTOLUENE

2500U 3-NITROANILINE
490U ACENAPHTHENE
490U 2,4-DINITROPHENOL
2500U 4-NITROPHENOL
490U DIBENZOFURAN
490U 2,4-DIMIROTOLUENE
490U DIETHYL PHthalate
490U 4-CHLOROPHENYL PHENYL ETHER
490U FLUORENE
2500U 4-NITROANILINE
2500U 2-METHYL-4,6-DINITROPHENOL
490U N-NITROSO(1-N-PROPYLAMINE)DIPHENYLAMINE
490U 2-(2-CHLOROETHYL) PHENYL ETHER
490U HEPTACHLOROBENZENE (HCB)
2500U PENTACHLOROPHENOL
490U PHENANTHRENE
490U AMTHACENE
490U CARBAZOLE
490U DI-N-BUTYLPHthalate
60J FLUORANTHENE
69J PYRENE
490U BENZYL BUTYL PHthalate
490U 3,3-DICHLOROBENZIDINE
490U BENZO(A)ANTHRACENE
490U CHRYSENE
490U BIS(2-ETHYLHEXYL) PHthalate
490U DI-N-OCTYLPHthalate
490U BENZO(D AND/OR K)FLUORANTHENE
490U BENZO-A-PYRENE
490U INDENO (1,2,3-CD) PYRENE
490U DIBENZO(A,H)ANTHRACENE
490U BENZO(G,H)PERYLENE
34 PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAJ-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-02 COLLECTION START: 01/29/91 1220 STOP: 00/00/00
CASE NO.: 1973 SAS NO.: D. NO.: AA64 MD NO.: AA64

ANALYTICAL RESULTS UG/KG
8000J 4 UNIDENTIFIED COMPOUNDS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54440 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: SD-02
CASE NUMBER: 15773 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: G.BEINFIELD
CITY: DICKSON ST: TN COLLECTION START: 01/20/91 1220 STOP: 00/00/00
D. NUMBER: AAG4

UG/KG ANALYTICAL RESULTS

2.9U ALPNA-BHC
2.9U BETA-BHC
2.9U DELTA-BHC
~~2.9U 4,4'-TETRACHLOROBUTYL TETRACHLOROETHANE~~
2.9U HEPTACHLOR
2.9U ALDRIN
2.9U HEPTACHLOR EPOXIDE
2.9U ENDOSULFAN I (ALPHA)
4.9U DIELDRIN
4.9U 4,4'-DDE (P,P'-DDE)
4.9U 4,4'-DDD (P,P'-DDD)
4.9U ENDOSULFAN II (BETA)
4.9U ENDOSULFAN SULFATE
4.9U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

25U METHOXYCHLOR
4.9U ENDRIN KETONE
4.9U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
1.9U GAMMA-CHLORDANE /2
0.29U ALPHACHELORDANE /2
250U POLYPHENOL
4.9U PCB-1016 (AROCOLOR 1016)
4.9U PCB-1221 (AROCOLOR 1221)
100U PCB-1232 (AROCOLOR 1232)
49U PCB-1242 (AROCOLOR 1242)
49U PCB-1248 (AROCOLOR 1248)
49U PCB-1254 (AROCOLOR 1254)
49U PCB-1260 (AROCOLOR 1260)
34 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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*C-CONFIRMED BY GCMS
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESO, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: SD-03 PROG ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1340 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA67

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

440U	PHENOL	2300U	3-NITROANILINE
440U	BIS(2-CHLOROETHYL) ETHER	440U	ACENAPHTHENE
440U	2-CHLOROPHENOL	2300U	2,4-DINITROPHENOL
440U	1,3-DICHLOROBENZENE	2300U	4-NITROPHENOL
440U	1,4-DICHLOROBENZENE	440U	DIBENZO[1,4]DIAZEPINE
440U	1,2-DICHLOROBENZENE	440U	2,6-DINITROTOLUENE
440U	2-METHYLPHENOL	440U	4-NITROBIPHENYL
440U	2,2'-CHLOROISOPROPYLETHER	440U	4-CHLOROPHENYL PHENYL ETHER
440U	(3-AND/OR 4)-METHYLPHENOL	440U	FLUORENE
440U	N-NITROSODI-N-PROPYLAMINE	2300U	4-NITROANILINE
440U	1,4-DIMETHYLBUTANE	2300U	2-METHYL-4,6-DINITROPHENOL
440U	NITROBENZENE	440U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U	ISOPHORONE	440U	4-BROMOPHENYL PHENYL ETHER
440U	2-NITROPHENOL	440U	HEXAChLOROBENZENE (HCB)
440U	2,4-DIMETHYLPHENOL	2300U	PENTACHLOROPHENOL
440U	BIS(2-CHLOROETHOXY) METHANE	440U	PHENANTHRENE
440U	2,4-DICHLOROPHENOL	440U	ANTHRACENE
440U	1,2,4-TRICHLOROBENZENE	440U	CARAZOLE
440U	NAPHTHALENE	440U	DI-N-BUTYLPHthalATE
440U	4-CHLORANILINE	440U	FLUORANTHENE
440U	HEXAChLOROBUTADIENE	440U	PYRENE
440U	2,4-DIMETHYLPHENOL	440U	BENZYL BUTYL PHthalATE
440U	2-METHYLNAPHTHALENE	440U	3,3'-DICHLOROBENZIDINE
440U	HEXAChLOROCYCLOCETADIENE (HCCP)	440U	BENZO(A)ANTHRACENE
440U	2,4,6-TRICHLOROPHENOL	440U	CHRYSELNE
2300U	2,4,5-TRICHLOROPHENOL	440U	BIS(2-EthYLHEXYL) PHthalATE
440U	2-CHLORONAPHTHALENE	440U	DI-CHLOROPHALATE
2300U	2-NITROANILINE	440U	BENZO[B, AND/OR K]FLUORANTHENE
440U	DIMETHYL PHthalATE	440U	BENZD-A-PYRENE
440U	ACENAPHTHYLENE	440U	INDENO[1,2,3-CD] PYRENE
440U	2,6-DINITROTOLUENE	440U	DIBENZO[A,H]ANTHRACENE

27 PERCENT MOISTURE

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.



SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54443 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1340 STOP: 00/00/00
STATION ID: SD-03

CASE NO.: 15773

SAS NO.:

D. NO.: AA67

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

14U CHLOROMETHANE	14U 1,2-DICHLOROPROPANE
14U BROMOMETHANE	14U CIS-1,3-DICHLOROPROPENE
14U VINYL CHLORIDE	14U TRICHLOROETHENE (TRICHLOROETHYLENE)
14U CHLOROETHANE	14U DIBROMOCHLOROETHANE
40U METHYLENE CHLORIDE	14U 1,1,1-TRICHLOROETHANE
14U ACETONE	14U BENZENE
14U CARBON DISULFIDE	14U TRANS-1,3-DICHLOROPROPENE
14U 1,1-DICHLOROETHANE (1,1-DICHLOROETHYLENE)	14U BROMOFORM
14U 1,1-DICHLOROETHANE	14U METHYL ISOBUTYL KETONE
14U 1,2-DICHLOROETHANE (TOTAL)	14U METHYL BUTYL KETONE
14U CHLOROFORM	14U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
14U 1,2-DICHLOROETHANE	14U 1,1,2,2-TETRACHLOROETHANE
14U METHYL ETHYL KETONE	14U TOLUENE
14U 1,1,1-TRICHLOROETHANE	14U CHLOROBENZENE
14U CARBON TETRACHLORIDE	14U ETHYL BENZENE
14U BROMODICHLOROMETHANE	14U STYRENE
	27 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *N=NOT ANALYZED *I=INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54443 SAMPLE TYPE: SOIL PROQ ELEM: NSF COLLECTED BY: G.BEIMFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-03 COLLECTION START: 01/29/91 1340 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA67 MD NO: AA67

ANALYTICAL RESULTS ug/kg
4000 1 UNIDENTIFIED COMPOUND

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54443 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROG ELEMENT: NSF COLLECTED BY: C.BEINFIELD
STATION ID: SD-03 CITY: DICKSON ST: TN
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA67 COLLECTION START: 01/29/91 1340 STOP: 00/00/00

UG/KG ANALYTICAL RESULTS

2.3U ALPHA-BHC
2.3U BETA-BHC
2.3U DELTA-BHC
2.3U GAMMA-BHC (LINDANE)
2.3U HEPTACHLOR
2.3U ALDRIN
2.3U HEPTACHLOR EPOXIDE
2.3U ENDOSULFAN I (ALPHA)
4.4U DIELDRIN
4.4U 4,4'-DDE (P,P'-DDE)
4.4U ENDRIM
4.4U ENDOSULFAN II (BETA)
4.4U 4,4'-DDD (P,P'-DDD)
4.4U ENDOSULFAN SULFATE
4.4U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

23U METHOXYCHLOR
4.4U ENDRIN KETONE
4.4U ENDRIN ALDEHYDE
— CHLORDANE (TECH. MIXTURE) /1
2.3U DIBROMOCHLORDANE /2
2.3U ALPHA-CHLORDANE /2
23U TOKAPHENE
44U PCB-1016 (AROCLOL 1016)
44U PCB-1221 (AROCLOL 1221)
90U PCB-1232 (AROCLOL 1232)
44U PCB-1242 (AROCLOL 1242)
44U PCB-1248 (AROCLOL 1248)
44U PCB-1254 (AROCLOL 1254)
44U PCB-1260 (AROCLOL 1260)
27 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1145 STOP: 00/00/00
STATION ID: SD-04

CASE NO.: 15773

SAS NO.:

D. NO.: AA63

UG/KG

ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

14U	CHLOROMETHANE	14U	1,2-DICHLOROPROPANE
14U	BROMOMETHANE	14U	CIS-1,3-DICHLOROPROPENE
14U	VINYL CHLORIDE	14U	TRICHLOROETHENE (TRICHLOROETHYLENE)
14U	CHLOROETHANE	14U	DIBROMOCHLOROMETHANE
30U	METHYLENE CHLORIDE	14U	1,1,2-TRICHLOROETHANE
14U	ACETONE	14U	BENZENE
14U	CARBON DISULFIDE	14U	TRANS-1,3-DICHLOROPROPENE
14U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	14U	BROMOFORM
14U	1,1-DICHLOROETHANE	14U	METHYL ISOBUTYL KETONE
14U	1,2-DICHLOROETHENE (TOTAL)	14U	METHYL BUTYL KETONE
14U	CHLOROFORM	14U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
14U	1,2-DICHLOROETHANE	14U	1,1,2,2-TETRACHLOROETHANE
14U	METHYL ETHYL KETONE	14U	TOLUENE
14U	1,1,1-TRICHLOROETHANE	14U	CHLOROBENZENE
14U	CARBON TETRACHLORIDE	14U	ETHYL BENZENE
14U	BROMODICHLOROMETHANE	14U	STYRENE
		30	TOTAL XYLENES
			PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: 50-04

PROG ELEM: NSF COLLECTED BY: G BEINFELD
CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1145 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA63

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

460U PHENOL
460U BIS(2-CHLOROETHYL) ETHER
460U 2-CHLOROPHENOL
460U 1,3-DICHLOROBENZENE
460U 1,4-DICHLOROBENZENE
460U 1,2-DICHLOROBENZENE
460U 2-METHYLPHENOL
460U 2,2'-CHLOROSOPROPYLETHER
460U (3-AND/OR 4-)METHYLPHENOL
460U N-NITROSO-DI-N-PROPYLAMINE
460U HEXACHLOROETHANE
460U NITROBENZENE
460U ISOPHORONE
460U 2-NITROPHENOL
460U 2,4-DIMETHYLPHENOL
460U BIS(2-CHLOROETHYL) METHANE
460U 2,4-DICHLOROPHENOL
460U 1,2,4-TRICHLOROBENZENE
460U NAPHTHALENE
460U 4-CHLORDANILINE
460U HEXACHLOROBUTADIENE
460U 4-CHLORO-3-METHYLPHENOL
460U 2-METHYLNAPHTHALENE
460U HEKACHLOROCYCLOPENTADIENE (HCCP)
460U 2,4,6-TRICHLOROPHENOL
2400U 2,4,4'-TRICHLOROPHENOL
460U 2,4-MONOCHLOROPHENOLENE
2400U 2-NITROANILINE
460U DIMETHYL PHTHALATE
460U ACENAPHTHYLENE
460U 2,6-DINITROTOLUENE

2400U 3-NITROANILINE
460U ACENAPHTHENE
2400U 2,6-DINITROPHENOL
2400U 4-NITROPHENOL
460U DIBENZOFURAN
460U 2,4-DINITROTOLUENE
460U DIETHYL PHTHALATE
460U 4-CHLOROPHENYL PHENYL ETHER
460U FLUORENE
2400U 4-NITROANILINE
2400U 2-METHYL-4,6-DINITROPHENOL
460U N-NITROSO-DIPHENYLAMINE/DIPHENYLAMINE
460U 4-BENZYLPHENYL PHENYL ETHER
460U HEXACHLOROBENZENE (HCB)
2400U PENTACHLOROPHENOL
460U PHENANTHRENE
460U ANTHRACENE
460U CARBAZOLE
460U DI-N-BUTYLPHTHALATE
460U FLUORANTHENE
460U PYRENE
460U BENZYL BUTYL PHTHALATE
460U 3,3'-4,4'-CHLOROBENZIDINE
460U RUBIZO(A)ANTHRACENE
460U CHRYSENE
460U BIS(2-EHXYLHEXYL) PHTHALATE
460U DI-N-OCTYLPHTHALATE
460U BENZO(A AND/OR K)FLUORANTHENE
460U BENZO-A-PYRENE
460U INDENO (1,2,3-CD) PYRENE
460U DIBENZO(A,H)ANTHRACENE
460U BENZO(GH)PERYLENE
30 PERCENT MOISTURE

FOOTNOTES
 *AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 04-268 SAMPLE NO. 54439 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-04 COLLECTION START: 01/29/91 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA63 MD NO.: AA63

ANALYTICAL RESULTS UG/KG
2000V 1 UNIDENTIFIED COMPOUND

FOOTNOTES
•A=AVVERAGE VALUE •NA=NOT ANALYZED •N/A=INTERFERENCES •J=ESTIMATED VALUE •N=PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
•K=ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN •L=ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54439 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF PROG ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: SD-04 CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1145 STOP: 00/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: A63

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.4U	ALPHA-BHC	24U	METHOXYCHLOR
2.4U	BETA-BHC	4.7U	ENDRIN KETONE
2.4U	DEETACHLOR	4.7U	ENDRIN ALDEHYDE
2.4U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.4U	HEPTACHLOR	2.4U	GAMMA-CHLORDANE /2
2.4U	ALDRIN	2.4U	ALPHA-CHLORDANE /2
2.4U	HEPTACHLOR EPOKIDE	240U	TOXAPHENE
2.4U	ENDOSULFAN I (ALPHA)	47U	PCB-1016 (AROCOLOR 1016)
4.7U	OIELDRIN	47U	PCB-1221 (AROCOLOR 1221)
4.7U	4,4'-DDE (P,P'-DDE)	96U	PCB-1232 (AROCOLOR 1232)
4.7U	ENDRIN	47U	PCB-1242 (AROCOLOR 1242)
4.7U	ENDOSULFAN II (BETA)	47U	PCB-1248 (AROCOLOR 1248)
4.7U	4,4'-DDD (P,P'-DDD)	47U	PCB-1254 (AROCOLOR 1254)
4.7U	ENDOSULFAN SULFATE	47U	PCB-1260 (AROCOLOR 1260)
4.7U	4,4'-DDT (P,P'-DDT)	30	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: SD-05

PROG ELEM: NSF COLLECTED BY: G BEINFELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

DO. NO.: AAG1

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

13U CHLOROMETHANE
13U BROMOMETHANE
13U VINYL CHLORIDE
13U CHLOROETHANE
30U METHYLENE CHLORIDE
13U ACETONE
13U CARBON DISULFIDE
13U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
13U 1,1-DICHLOROETHANE
13U 1,2-DICHLOROETHENE (TOTAL)
13U CHLOROFORUM
13U 1,1,1-TRICHLOROETHANE
13U METHYL ETHYL KETONE
13U 1,1,1-TRICHLOROETHANE
13U CARBON TETRACHLORIDE
13U BROMODICHLOROMETHANE

13U 1,2-DICHLOROPROPANE
13U CIS-1,3-DICHLOROPROPENE
13U TRICHLOROETHENE(TRICHLOROETHYLENE)
13U DIBROMOCHLOROMETHANE
13U 1,1,2-TRICHLOROETHANE
13U BENZENE
13U TRANS-1,3-DICHLOROPROPENE
13U BROMOFORM
13U METHYL ISOBUTYL KETONE
13U 1,1,2,2-TETRACHLOROETHANE
13U TETRACHLOROETHENE(TETRACHLOROETHANE)
13U TOLUENE
13U CHLOROBENZENE
13U ETHYL BENZENE
13U STYRENE
13U TOTAL XYLENES
24 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *N-A-NOT ANALYZED *H-I-INTERFERENCES *J-ESTIMATED VALUE *M-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF
STATION ID: SD-05

PROD ELEM: NSF COLLECTED BY: G BEINFIELD
CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1130 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA61

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

430U PHENOL
430U 615(2-CHLOROETHYL) ETHER
430U 2-CHLOROPHENOL
430U 1,3-DICHLOROBENZENE
430U 1,2-DICHLOROBENZENE
430U 2-METHYLPHENOL
430U 2,2'-CHLOROISOPROPYLE THER
430U 1,3-AND/OR 4,1-METHYLPHENOL
430U N-NITROSODI-N-PROPYLAMINE
430U HEXACHLOROBUTANE
430U NITROBENZENE
430U ISOPHORONE
430U 2-NITROPHENOL
430U 4-NITROPHENOL
430U 2(1,2-CHLOROETHOXY) METHANE
430U 2,4-DICHLOROPHENOL
430U 1,2,4-TRICHLOROBENZENE
430U NAPHTHALENE
430U 4-CHLORANILINE
430U HEXACHLOROBUTADIENE
430U 4-CHLORO-3-METHYLPHENOL
430U 2-METHYLNAPHTHALENE
430U HEXACHLOROCYCLOPENTADIENE (HCCP)
430U 2,4,8-TRICHLOROPHENOL
430U 2,4,5-TRICHLOROPHENOL
2200U 2-CHLORONAPHTHALENE
2200U 2-NITROANILINE
430U DIMETHYL PHthalate
430U ACENAPHTHYLENE
430U 2,6-DINITROTOLUENE

2200U 3-NITROANILINE
430U ACENAPHTHENE
2200U 2,4-DINITROPHENOL
2200U 4-NITROPHENOL
430U DIBENZOFURAN
430U 2,4-DIMITROTOLUENE
430U DIETHYL PHthalate
430U 4-CHLOROPHENYL PHENYL ETHER
430U FLUORENE
2200U 4-NITROANILINE
2200U 4-METHYL-4,6-DINITROPHENOL
430U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
430U 4-BROMOPHENYL PHENYL ETHER
430U HEXACHLOROBENZENE (HCB)
2200U PENTACHLOROPHENOL
430U PHENANTHRENE
430U ANTHRACENE
430U CARBAZOLE
430U DI-N-BUTYLPHthalate
430U FLUORANTHENE
430U BENZYL BUTYL PHthalate
430U 3,3'-DICHLOROBENZIDINE
430U BENZO(A)ANTHRACENE
430U CHRYSENE
430U BIS(2-ETHYLHEXYL) PHthalate
430U DI-N-OCTYLPHthalate
430U BENZO(B AND/OR K)FLUORANTHENE
430U BENZO-A-PYRENE
430U INDENO[1,2,3-CD] PYRENE
430U DIBENZO(A,1)ANTHRACENE
430U BENZO(GH)PERYLENE
24 PERCENT MOISTURE

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *N1-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54437 SAMPLE TYPE: SOIL PROG ELEM: NSP COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-05 COLLECTION START: 01/29/91 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA61 MD NO.: AA61

ANALYTICAL RESULTS UG/KG
4000J 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54437 SAMPLE TYPE: SOIL
SOURCE: DICKSON CD. 1 F STATION ID: SD-05 CASE NUMBER: 15773

PROG ELEM: NSF COLLECTED BY: G BEINFELD
CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1130 STOP: 00/00/00
D. NUMBER: AAG1

UG/KG ANALYTICAL RESULTS

2.2U ALPNA-BHC
2.2U BETA-BHC
2.2U DELTA-BHC
2.2U GAMMA-BHC (LINDANE)
2.2U HEPTACHLOR
2.2U ALDRIN
2.2U HEPTACHLOR EPOXIDE
2.2U ENDOSULFAN I (ALPHA)
4.3U DIELORIN
4.3U 4,4'-DDE (P,P'-DDE)
4.3U ENDRIN
4.3U ENDOSULFAN II (BETA)
4.3U 4,4'-DDD (P,P'-DDD)
4.3U ENDOSULFAN SULFATE
5.0U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

22U METHOXYCHLOR
4.3U ENDRIN KETONE
4.3U ENDRIN ALDEHYDE
-- CHLORODANE (TECH. MIXTURE) /
2.2U GAMMA-CHLORDANE /
2.2U ALPHA-CHLORDANE /
22U TOTAL PCB
43U PCB-1016 (AROCOLOR 1016)
43U PCB-1221 (AROCOLOR 1221)
43U PCB-1232 (AROCOLOR 1232)
43U PCB-1242 (AROCOLOR 1242)
43U PCB-1248 (AROCOLOR 1248)
43U PCB-1254 (AROCOLOR 1254)
43U PCB-1260 (AROCOLOR 1260)
24 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54445 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO LF PROD ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: SD-06 CITY: DICKSON ST: TN
COLLECTION START: 01/29/91 1445 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA69

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

13U	CHLOROMETHANE	13U	1,2-DICHLOROPROPANE
13U	BROMOMETHANE	13U	CIS-1,3-DICHLOROPROPENE
13U	VINYL CHLORIDE	13U	TRICHLOROETHENE (TRICHLOROETHYLENE)
13U	CHLOROETHANE	13U	DIBROMOCHLOROMETHANE
40U	METHYLENE CHLORIDE	13U	1,1,2-TRICHLOROETHANE
40U	ACETONE	13U	BENZENE
13U	CARBON DISULFIDE	13U	TRANS-1,3-DICHLOROPROPENE
13U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U	BUTANOFORMATE
13U	1,1-DICHLOROETHANE	13U	METHYL ISOBUTYL KETONE
13U	1,2-DICHLOROETHENE (TOTAL)	13U	METHYL BUTYL KETONE
13U	CARBON TETRACHLORIDE	13U	TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U	BROMODICHLOROMETHANE	13U	1,1,2,2-TETRACHLOROETHANE

25 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN COLLECTION START: 01/29/91 1445 STOP: 00/00/00
STATION ID: SD-06

CASE NO.: 15773

SAS NO.:

D. NO.: AAB9

UG/KG

ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

440U PHENOL
440U BIS(2-CHLOROETHYL) ETHER
440U 2-CHLOROPHENOL
440U 1,3-DICHLOROBENZENE
440U 1,4-DICHLOROBENZENE
440U 1,2-DICHLOROBENZENE
440U 2-METHYLPHENOL
440U 2,4-DICHLOROPROPYLETHER
440U 3-AND/OR 4-METHYLPHENOL
440U N-NITROSO-DI-N-PROPYLAMINE
440U HEXACHLOROETHANE
440U NITROBENZENE
440U ISOPHORONE
440U 2-NITROPHENOL
440U 2,4-DIMETHYLPHENOL
440U BIS(2-CHLOROETHOXY) METHANE
440U 2,4,6-TRICHLOROPHENOL
440U 2,2,4-TRICHLOROBENZENE
440U NAPHTHALENE
440U 4-CHLORDIAMINE
440U HEXACHLOROBUTADIENE
440U 4-CHLORO-3-METHYLPHENOL
440U 2-METHYLNAPHTHALENE
440U HEXACHLOROCYCLOPENTADIENE (HCCP)
440U 2,4,6-TRICHLOROPHENOL
2300U 2,4,5-TRICHLOROPHENOL
440U 2-CHLORONAPHTHALENE
2300U 2-METHYL PHENOL
440U DIMEETHYL PHthalate
440U ACENAPHTHYLENE
440U 2,6-DINITROTOLUENE

2300U 3-NITROANILINE
440U ACENAPHTHEN
2300U 2,4-DINITROPHENOL
2300U 4-NITROPHENOL
440U DIBENZOFURAN
440U 2,4-DINITROTOLUENE
440U DIETHYL PHthalate
440U 4-CHLOROPHENYL PHENYL ETHER
440U FLUORENE
2300U 4-NITROANILINE
2300U 2-METHYL-4,6-DINITROPHENOL
440U N-NITROSO-DI-PHENYLAMINE/DIPHENYLAMINE
440U 4-BROMOPHENYL PHENYL ETHER
440U HEXACHLOROBENZENE (HCB)
2300U PENTACHLOROPHENOL
810J PHENANTHRENE
514 ANTHRACENE
440U CARBAZOLE
440U DI-N-BUTYLPHthalate
4104 FLUORANTHRENE
2704 PYRENE
560 BENZYL BUTYL PHthalate
440U 3,3'-DICHLOROBENZIDINE
190J BENZO-A-ANTHRACENE
170J PYRENE
440U BIS(2-ETHYLHEXYL) PHthalate
440U DI-N-OCTYLPHthalate
440U BENZOB(A)FLUORANTHRENE
440U BENZO-A-PYRENE
440U INDENO (1,2,3-CD) PYRENE
440U DIBENZO(A,H)ANTHRACENE
440U BENZO(GH)PERYLENE
25 PERCENT MOISTURE

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*S-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

*** PROJECT NO: 91-286 SAMPLE NO: 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
*** SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
*** STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 00/00/00
*** CASE NO.: 15773 SAS NO.: D. NO.: AA69 MD NO.: AA69

ANALYTICAL RESULTS UG/KG

70000 0 UNIDENTIFIED COMPOUNDS
200JN H PETROLEUM PRODUCT
200JN TRIBROMOPHENOL (NOT 2,4,6-)

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-INTERFERENCES *J-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*I-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTIFICATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 01-266 SAMPLE NO. 54445 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G REINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: SD-06 COLLECTION START: 01/29/91 1445 STOP: 09/00/00
CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AA69

UG/KG ANALYTICAL RESULTS

2.2U ALPHA-BHC
2.2U BETA-BHC
2.2U DELTA-BHC
2.2U GAMMA-BHC (LINDANE)
2.2U HEPTACHLOR
2.2U HEPTACHLOR EPOXIDE
2.2U ENDOSULFAN I (ALPHA)
4.3U Dieldrin
4.3U 4,4'-DDE (P,P'-DDE)
4.3U Endrin
4.3U ENDOSULFAN II (BETA)
4.3U 4,4'-DDD (P,P',DDD)
12U ENDOSULFAN SULFAIE
4.3U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

22U METHOXYCHLOR
4.3U ENDRIN KETONE
4.3U ENDRIN ALDEHYDE
-- CHLORDANE (TECH. MIXTURE) /1
0.01 GAMMA-CHLORDANE /2
2.2U ALPHA-CHLORDANE /2
220U TOXAPHENE
43U PCB-1016 (AROCOLOR 1016)
43U PCB-1221 (AROCOLOR 1221)
87U PCB-1232 (AROCOLOR 1232)
43U PCB-1242 (AROCOLOR 1242)
43U PCB-1254 (AROCOLOR 1254)
77U PCB-1254 (AROCOLOR 1254)
74U PCB-1260 (AROCOLOR 1260)
25 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NAT-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
 *C-CONFIRMED BY GCMS
 1. WHEN NO VALUE IS REPORTED. SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

•• PROJECT NO. 91-268 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 •• SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 •• STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00

•• CASE NO.: 15773

SAS NO.:

D. NO.: AA54

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

14U CHLOROETHANE
 14U BROMOETHANE
 14U VINYL CHLORIDE
 14U CHLOROETHANE
 20U METHYLENE CHLORIDE
 14U ACETONE
 14U CARBON DISULFIDE
 14U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)
 14U 1,1-DICHLOROETHANE
 14U 1,2-DICHLOROETHENE (TOTAL)
 14U CHLOROFORM
 14U 1,2-DICHLOROETHANE
 14U MÉTHYL ETHYL KETONE
 14U 1,1,1-TRICHLOROETHANE
 14U CARBON TETRACHLORIDE
 14U BROMODICHLOROETHANE

14U 1,2-DICHLOROPROPANE
 14U CIS-1,3-DICHLOROPROPENE
 14U TRICHLOROETHENE (TRICHLOROETHYLENE)
 14U DIBROMOCHLOROETHANE
 14U 1,1,2-TRICHLOROETHANE
 14U BENZENE
 14U TRANS-1,3-DICHLOROPROPENE
 14U BROMOFORM
 14U METHYL ISOBUTYL KETONE
 14U METHYL BUTYL KETONE
 14U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
 14U 1,1,2,2-TETRACHLOROETHANE
 14U TOLUENE
 14U CHLOROBENZENE
 14U ETHYL BENZENE
 14U STYRENE
 14U TOTAL XYLENES
 28 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
 *A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
 *X-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
 *U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED, THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
 *R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54430 SAMPLE TYPE: SOIL PROG. ELEM: NSF COLLECTED BY: G.BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AAS4

UG/KG ANALYTICAL RESULTS

450U PHENOL
450U BIS(2-CHLOROETHYL) ETHER
450U 2-CHLOROPHENOL
450U 1,3-DICHLOROBENZENE
450U 1,4-DICHLOROBENZENE
450U 1,4-DICHLOROPHENENE
450U 2-METHYL PHENOL
450U 2,2'-CHLOROISOPROPYLETHER
450U (3-AND/OR 4-)METHYLPHENOL
450U N-NITROSODI-N-PROPYLAMINE
450U HEXACHLOROETHANE
450U NITROBENZENE
450U ISOPHORONE
450U 2-NITROPHENOL
450U 2,4-DIMETHYLPHENOL
450U BIS(2-CHLOROETHOXY) METHANE
450U 2,4-DICHLOROPHENOL
450U 2,4,5-TRICHLOROBENZENE
450U NAPHTHALENE
450U 4-CHLORDIAMLINE
450U HEXACHLOROBUTADIENE
450U 4-CHLORO-3-METHYLPHENOL
450U 2-METHYLNAPHTHALENE
450U HEXACHLOROCYCLOPENTADIENE (HCCP)
450U 2,4,6-TRICHLOROPHENOL
2300U 2,4,5-TRICHLOROPHENOL
450U 2-CHLOROPHENALENE
2300U 2-NITROANILINE
450U DIMETHYL PHTHALATE ATC
450U ACENAPHTHYLENE
450U 2,6-DINITROTOLUENE

2300U 3-NITROANILINE
450U ACENAPHTHENE
2300U 2,4-DINITROPHENOL
2300U 4-NITROPHENOL
450U DIBENZOFURAH
450U 2,4-DINITROTOLUENE
450U DIETHYL PHTHALATE
450U 4-CHLOROPHENYL PHENYL ETHER
450U FLUORENE
2300U 4-NITROANILINE
2300U 2-METHYL-4,6-DINITROPHENOL
450U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
450U 4-BROMOPHENYL PHENYL ETHER
450U HEXACHLOROBENZENE (HCB)
2300U 2,4,6-NITROPHENOL
450U PHENANTHRENE
450U CARBAZOLES
450U DI-M-BUTYLPHTHALATE
450U FLUORANTHENE
450U PYRENE
450U BENZYL BUTYL PHTHALATE
450U 3,3'-DICHLOROBENZIDINE
450U BENZO(A)ANTHRACENE
450U BIS(2-ETHYLHEXYL) PHTHALATE
450U DI-N-OCTYLPHTHALATE
450U BENZOB(A)PYRENE
450U BENZO-A-PYRENE
450U INDENO (1,2,3-CD) PYRENE
450U DIBENZO(A,H)ANTHRACENE
450U BENZO(GH)PERYLENE
28 PERCENT MOISTURE

REMARKS

REMARKS

NOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT

*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54430 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G.BEINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-01 COLLECTION START: 01/28/91 1600 STOP: 00/00/00
CASE NO: 15773 SAS NO: D. NO: AA54 MD NO: AA54

ANALYTICAL RESULTS UG/KG

50000- 8 UNIDENTIFIED COMPOUNDS
20000 HEXADECANOIC ACID

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NLT-INTERFERENCES *E-ESTIMATED VALUE *P-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO: 91-286 SAMPLE NO: 54430 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: LS-01 CASE NUMBER: 15773
SAS NUMBER: PROG ELEM: NSF CITY: DICKSON ST: TN
COLLECTION START: 01/28/91 1600 STOP: 00/00/00
D. NUMBER: AA54

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

2.4U ALPHA-BHC	24U METHOXYCHLOR
2.4U BETA-BHC	4.6U ENDRIN KETONE
2.4U DELTA-BHC	4.6U ENDRIN ALDEHYDE
2.4U GAMMA-BHC (LINDANE)	-- CHLORDANE (TECH. MIXTURE) /1
2.4U HEPTACHLOR	8.4 GAMMA-CHLORDANE /2
2.4U ALDRIN	2.0J ALPHA-CHLORDANE /2
2.4U HEPTACHLOR EPOKIDE	24OU TOKAPHENE
2.4U ENDOSULFAN I (ALPHA)	46U PCB-1016 (AROCOLOR 1016)
2.4U DIELDRIN	46U PCB-1221 (AROCOLOR 1221)
2.4U -DDT (P,P'-DDT)	93U PCB-1232 (AROCOLOR 1232)
4.6U ENDRIN	46U PCB-1242 (AROCOLOR 1242)
4.6U ENDOSULFAN II (BETA)	46U PCB-1248 (AROCOLOR 1248)
4.6U -DDT (P,P'-DDT)	46U PCB-1254 (AROCOLOR 1254)
4.6U ENDOSULFAN SULFATE	46U PCB-1260 (AROCOLOR 1260)
4.6U 4,4'-DDT (P,P'-DDT)	28 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

*A-AVERAGE VALUE *NA-NOT ANALYZED *N/A-INTERFERENCES *J-ESTIMATED VALUE *N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN *L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN
*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.
*R-OC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.
*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO: 91-268 SAMPLE NO: 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LT CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AA55

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

14U	CHLOROMETHANE	14U	1,2-DICHLOROPROPANE
14U	BROMOMETHANE	14U	CIS-1,3-DICHLOROPROPENE
14U	1,1,1-TRICHLORIDE	14U	TRICHLOROETHANE (TRICHLOROETHYLENE)
14U	CHLOROETHANE	14U	DIBROMOCHLOROMETHANE
40U	METHYLENE CHLORIDE	14U	1,1,2-TRICHLOROETHANE
200U	ACETONE	14U	BENZENE
14U	CARBON DISULFIDE	14U	TRANS-1,3-DICHLOROPROPENE
14U	1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	14U	BROMOFORM
14U	1,1-DICHLOROETHANE	14U	METHYL ISOBUTYL KETONE
14U	1,2-DICHLOROETHENE (TOTAL)	14U	METHYL BUTYL KETONE
14U	CHLOROFORM	14U	TETRACHLOROETHENE (TETRACHLOROETHANE)
14U	1,2-DICHLOROETHANE	14U	1,1,2,2-TETRACHLOROETHANE
14U	METHYL ETHYLE KETONE	14U	TOLUENE
14U	1,1,1-TRICHLOROETHANE	14U	CHLOROBENZENE
14U	CARBON TETRACHLORIDE	14U	ETHYL BENZENE
14U	BROMODICHLOROMETHANE	14U	STYRENE
		14U	TOTAL KYLENES
		26	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF STATION ID: LS-02

CASE NO.: 1573

SAS NO.:

D. NO.: AA55

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

440U PHENOL
440U BIS(2-CHLOROETHYL) ETHER
440U 2-CHLOROPHENOL
440U 1,3-DICHLOROBENZENE
440U 1,4-DICHLOROBENZENE
440U 1,2-DICHLOROBENZENE
440U 2-METHYLPHENOL
440U 2,2'-CHLOROISOPROPYLETHER
440U (3-AND/OR 4-)METHYLPHENOL
440U N-NITROSODI-N-PROPYLAMINE
440U HEXACHLOROETHANE
440U NITROBENZENE
440U 2-NITROBENZENE
440U 2-NITROPHENOL
440U 2,4-DIMETHYLPHENOL
440U BIS(2-CHLOROETHOXY) METHANE
440U 2,4-DICHLOROPHENOL
440U 1,2,4-TRICHLOROBENZENE
440U NAPHTHALENE
440U 4-CHLORDANTHRENE
440U HEXACHLOROBUTADIENE
440U 4-CHLORO-3-METHYLPHENOL
440U 2-METHYLPHENOL
440U 2,2,2-TRICHLOROCYCLOPENTADIENE (HCCP)
440U 2,4,6-TRICHLOROPHENOL
2300U 2,4,5-TRICHLOROPHENOL
440U 2-CHLORONAPHTHALENE
2300U 2-NITRODANTHRENE
440U DIMETHYL PHTHALATE
440U ACENAPHTHYLENE
440U 2,6-DINITROTOLUENE

2300U 3-NITROANILINE
440U ACENAPHTHENE
2300U 2,4-DINITROPHENOL
2300U 4-NITROPHENOL
440U DIBENZOFURAN
440U 2,4-DINITROTOLUENE
440U DIETHYL PHTHALATE
440U 4-CHLOROPHENYL PHENYL ETHER
440U FLUORENE
2300U 4-METHYL-4-B-DINITROPHENOL
2300U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
440U 4-BROMOPHENYL PHENYL ETHER
440U HEXACHLOROBENZENE (HCB)
2300U PENTACHLOROPHENOL
440U PHENANTHRENE
440U ANTHRACENE
440U CARBAZOLE
440U DI-N-BUTYLPHTHALATE
440U 1,1-DANTHRENE
440U PYRENE
440U BENZYL BUTYL PHTHALATE
440U 3,3'-DICHLOROBENZIDINE
440U BENZO(A)ANTHRACENE
440U CHRYSENE
440U BIS(2-ETHYLHEXYL) PHTHALATE
440U DI-N-OCTYLPHTHALATE
440U BENZO(B AND/OR K)FLUORANTHENE
440U BENZO-A-PYRENE
440U INDENO[1,2,3-CD] PYRENE
440U DIBENZO[A,H]ANTHRACENE
440U BENZO[G,H]PERYLENE
26 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 91-286 SAMPLE NO. 54431 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-02 COLLECTION START: 01/28/91 1640 STOP: 00/00/00
CASE NO.: 15773 SAS NO.: D. NO.: AA55 MD NO.: AA55

ANALYTICAL RESULTS ug/kg
800# 1 UNIDENTIFIED COMPOUND

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NI-INTERFERENCES *J-ESTIMATED VALUE *W-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 91-266 SAMPLE NO. 54431 SAMPLE TYPE: SOIL
SOURCE: DICKSON CO. LF PROG ELEM: NSF COLLECTED BY: G BEINFIELD
STATION ID: LS-02 CITY: ATHENS ST: TN
CASE NUMBER: 15773 SAS NUMBER: COLLECTION START: 01/28/91 1640 STOP: 00/00/00
D. NUMBER: AASS

UG/KG ANALYTICAL RESULTS

2.2U ALPHA-BHC
2.2U BETA-BHC
2.2U DELTA-BHC
2.2U GAMMA-BHC (LINDANE)
2.2U HEPTACHLOR
2.2U HEPTACHLOR ALKYL
2.2U HEPTACHLOR EPOXIDE
2.2U ENDOSULFAN I (ALPHA)
4.4U DIELDRIN
4.4U 4,4'-DDE (P,P'-DDE)
4.4U ENDRIN
4.4U ENDOSULFAN II (BETA)
4.4U 4,4'-DDD (P,P'-DDD)
4.4U ENDOSULFAN SULFATE
4.4U 4,4'-DDT (P,P'-DDT)

UG/KG ANALYTICAL RESULTS

22U METHOXYCHLOR
4.4U ENDRIN KETONE
4.4U ENDRIN ALDEHYDE
— CHLORDANE (TECH. MIXTURE) /1
▲ 20U CHLORDANE /2
22U ALPHA-CHLORDANE /2
220U TOXAPHENE
44U PCB-1016 (AROCOLOR 1016)
44U PCB-1221 (AROCOLOR 1221)
88U PCB-1232 (AROCOLOR 1232)
44U PCB-1242 (AROCOLOR 1242)
44U PCB-1248 (AROCOLOR 1248)
44U PCB-1254 (AROCOLOR 1254)
44U PCB-1260 (AROCOLOR 1260)
26 PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG ELEM: HSF COLLECTED BY: G BEINFIELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 15773

SAS NO.:

D. NO.: AAS6

UG/KG

ANALYTICAL RESULTS

UG/KG

ANALYTICAL RESULTS

13U CHLOROMETHANE	13U 1,2-DICHLOROPROPANE
13U BROMOMETHANE	13U 1,1,1-TRICHLOROPROPENE
13U VINYL CHLORIDE	13U 1,1,2-TRICHLOROETHYLENE (TRICHLOROETHYLENE)
13U CHLOROETHANE	13U DIBROMOCHLOROMETHANE
30U METHYLENE CHLORIDE	13U 1,1,2-TRICHLOROETHANE
13U ACETONE	13U BENZENE
13U CARBON DISULFIDE	13U TRANS-1,3-DICHLOROPROPENE
13U 1,1-DICHLOROETHENE (1,1-DICHLOROETHYLENE)	13U BROMOFORM
13U 1,1-DICHLOROETHANE	13U METHYL ISOBUTYL KETONE
13U 1,2-DICHLOROETHENE (TOTAL)	13U METHYL BUTYL KETONE
13U CHLOROFORM	13U TETRACHLOROETHENE (TETRACHLOROETHYLENE)
13U 1,2-DICHLOROETHANE	13U 1,1,2,2-TETRACHLOROETHANE
13U METHYL ETHYL KETONE	13U TOLUENE
13U 1,1,1-TRICHLOROETHANE	13U OXIDIZED BENZENE
13U CARBON TETRACHLORIDE	13U ETHYL BENZENE
13U BROMODICHLOROMETHANE	13U STYRENE
	13U TOTAL XYLENES
	22 PERCENT MOISTURE

REMARKS

REMARKS

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/23/91

EXTRACTABLE ORGANICS DATA REPORT

PROJECT NO: 91-266 SAMPLE NO: 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G REINFELD
SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00

CASE NO.: 1573

SAS NO.:

D. NO.: AAS6

UG/KG ANALYTICAL RESULTS

UG/KG ANALYTICAL RESULTS

420UJ	PHENOL	2200UJ	3-NITROANILINE
420UJ	BIS(2-CHLOROETHYL) ETHER	420UJ	ACENAPHTHENE
420UJ	2-CHLOROPHENOL	2200UJ	2,4-DINITROPHENOL
420UJ	BISCHLOROBENZENE	2200UJ	4-NITROPHENOL
420UJ	1,4-DICHLOROBENZENE	420UJ	DIENZOFURAN
420UJ	1,2-DICHLOROBENZENE	420UJ	2,4-DIMIROTOLUENE
420UJ	2-METHYLPHENOL	420UJ	DIETHYL PHTHALATE
420UJ	2,2'-CHLOROTISOPROPYLETHER	420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	(3-AND/OR 4-)METHYLPHENOL	420UJ	FLUORENE
420UJ	N-NITROSODI-N-PROPYLAMINE	2200UJ	4-NITROANILINE
420UJ	HEKACHLOROETHANE	2200UJ	2-METHYL-4,6-DINITROPHENOL
420UJ	NITROBENZENE	420UJ	N-(4-NITROPHENYL)AMINE/DIPHENYLAMINE
420UJ	ISOPHORONE	420UJ	4-CHLOROPHENYL PHENYL ETHER
420UJ	2-METHYLPHENOL	420UJ	HEXACHLOROBENZENE (HCB)
420UJ	2,4-DIMETHYLPHENOL	2200UJ	PENTACHLOROPHENOL
420UJ	BIS(2-CHLOROETHYL) METHANE	420UJ	PHENANTHRENE
420UJ	2,4-DICHLOROPHENOL	420UJ	ANTHRACENE
420UJ	1,2,4-TRICHLOROBENZENE	420UJ	CARBAZOLE
420UJ	NAPHTHALENE	420UJ	D1-N-BUTYLPHTHALATE
420UJ	4-CHLOROANILINE	420UJ	FLUORANTHENE
420UJ	HEXACHLOROBUTADIENE	420UJ	PYRENE
420UJ	4-CHLORO-3-METHYLPHENOL	420UJ	BENZO- <i>B</i> BUTYL PHTHALATE
420UJ	2-METHYLNAPHTHALENE	420UJ	3,5-DICHLOROBENZIDINE
420UJ	HEXADECYL CLOPENTADIENE (HCCP)	420UJ	BENZO(<i>A</i>)ANTHRACENE
420UJ	2,4,5-TRICHLOROPHENOL	420UJ	CHRYSENE
420UJ	2-CHLORONAPHTHALENE	420UJ	BIS(2-ETHYLHEXYL) PHTHALATE
2200UJ	2-NITROANILINE	420UJ	DI-N-OCTYLPHTHALATE
420UJ	DIMETHYL PHTHALATE	420UJ	BENZO- <i>A</i> -PYRENE
420UJ	ACENAPHTHYLENE	420UJ	INDENO (1,2,3-CD) PYRENE
420UJ	2,6-DINMROTOLUENE	420UJ	DI BENZO(<i>A,H</i>)ANTHRACENE
		420UJ	BENZO(GH)PERYLENE
		22	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

REMARKS

FOOTNOTES
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

04/30/91

PESTICIDES/PCB'S DATA REPORT

*** PROJECT NO. 91-268 SAMPLE NO. 54432 SAMPLE TYPE: SOIL PROG ELEM: NSF COLLECTED BY: G BEINFIELD
 SOURCE: DICKSON CO. LF CITY: DICKSON ST: TN
 STATION ID: LS-03 COLLECTION START: 01/28/91 1620 STOP: 00/00/00
 CASE NUMBER: 15773 SAS NUMBER: D. NUMBER: AAS6

UG/KG	ANALYTICAL RESULTS	UG/KG	ANALYTICAL RESULTS
2.1U	ALPHA-BHC	21U	METHOXYCHLOR
	BETA-BHC	4.1U	ENDRIN KETONE
2.1U	DELTA-BHC	4.1U	ENDRIN ALDEHYDE
2.1U	GAMMA-BHC (LINDANE)	—	CHLORDANE (TECH. MIXTURE) /1
2.1U	HEPTACHLOR	2.1U	GAMMA-CHLORDANE /2
2.1U	ALDRIN	2.1U	ALPHA-CHLORDANE /2
2.1U	HEPTACHLOR EPoxide	210U	TOXAPHERENE
2.1U	ENDOSULFAN I (ALPHA)	41U	PCB-1016 (AROCOLOR 1016)
4.1U	DIELDRIN	41U	PCB-1221 (AROCOLOR 1221)
4.1U	4,4'-DDE (P,P'-DDE)	84U	PCB-1232 (AROCOLOR 1232)
4.1U	ENDRIN	41U	PCB-1242 (AROCOLOR 1242)
4.1U	ENDOSULFAN II (BETA)	41U	PCB-1252 (AROCOLOR 1252)
4.1U	4,4'-DDD (P,p'-DDD)	41U	PCB-1254 (AROCOLOR 1254)
4.1U	ENDOSULFAN SULFATE	41U	PCB-1260 (AROCOLOR 1260)
4.1U	4,4'-DDT (P,P'-DDT)	22	PERCENT MOISTURE

REMARKS

REMARKS

FOOTNOTES
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Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION					
01 STATE	02 SITE NUMBER				
TND	98144-7673				
II. SITE NAME AND LOCATION					
01 SITE NAME (OR DESCRIPTION NAME OF SITE)		02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER			
Dickson County Landfill		Eno Road			
03 CITY		04 STATE	05 ZIP CODE		
DICKSON		TN	DICKSON		
06 COORDINATES LATITUDE		07 LONGITUDE			
36° 22' 50"		87° 24' 52"			
08 TYPE OF OWNERSHIP (check one)					
A PRIVATE B. FEDERAL C. STATE & D. COUNTY E. MUNICIPAL					
F OTHER G UNKNOWN					
III. INSPECTION INFORMATION					
01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION			
01 28 91	A ACTIVE B INACTIVE	1968	BEGINNING YEAR		
		PRESENT	ENDING YEAR		
04 AGENCY PERFORMING INSPECTION (check off the agency)					
EPA B EPA CONTRACTOR HILLBURTON NUS C MUNICIPAL D MUNICIPAL CONTRACTOR					
E STATE F STATE CONTRACTOR G OTHER					
05 CHIEF INSPECTOR		06 TITLE	07 ORGANIZATION		
DAVID CEPPOS		PROJECT MANAGER	NUS		
GARY BENFIELD		COPROJECT MANAGER	NUS		
RUSTY HAZLETON		SAMPLER	NUS		
MARIL HITCHCOCK		SAMPLE MANAGEMENT OFFICE	NUS		
JANCIE HATCHER		FASP	NUS		
JIM MILLER		GEOPHYSICS	NUS		
08 SITE REPRESENTATIVES INTERVIEWED					
VIRGIL BELLAR		09 TITLE LANDFILL OPERATOR	10 ADDRESS ENO ROAD		
BILL GRIGGS		CONSULTANT	P.O. BOX 2968 MURFREESBORO, TN 37133		
			615-895-8221		
11 ACCESS GAINED BY		12 TIME OF INSPECTION	13 WEATHER CONDITIONS		
✓ PERMISSION ✓ WARRANT			OVERCAST & COLD ($\approx 36^{\circ}\text{F}$)		
IV. INFORMATION AVAILABLE FROM					
01 CONTACT		02 ORG. FOR SIGNATURE			
VIRGIL BELLAR		DICKSON COUNTY			
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
T. GARY BENFIELD		EPA	NUS CORP.	404-938-7710	7/2/91



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION**

L'IDENTIFICATION

01 STATE	02 SITE NUMBER
TND	98141-7673

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	Q1 GROSS AMOUNT	Q2 UNIT OF MEASURE	Q3 COMMENTS
SOL	SLUDGE			
DW	INDUSTRIAL WASTE	unknown		from ALUMINUM FOUNDRY
SOL	SOLVENTS	unknown	DRUMS	from SHEARER AUTOMOTIVE & WINNER BOATS
PSD	PESTICIDES	UNKNOWN		
OCC	OTHER ORGANIC CHEMICALS			
NC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		from PAINT WASTE

IV. HAZARDOUS SUBSTANCES - See Appendix to this Form for a list of controlled substances.

V. FEEDSTOCKS

47 SUB-P	47 FEEDSTOCK NAME	32 CAS NUMBER	48 SUB-P	31 FEEDSTOCK NAME	32 CAS NUMBER
FDS			-05		
FDS			-05		
FDS			-05		
FDS			-05		

VI. SOURCES OF INFORMATION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION

01 STATE 02 SITE NUMBER
IND 981467673

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 J DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE _____ : POTENTIAL ALLEGED

N/A

01 K DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE _____ : POTENTIAL ALLEGED

N/A

01 L CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE _____ : POTENTIAL ALLEGED

N/A

01 M UNSTABLE CONTAINMENT OF WASTES
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE 1/20/91 : POTENTIAL ALLEGED

Landfill had several leachate areas which entered the surface water pathway.

01 N DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE _____ : POTENTIAL ALLEGED

N/A

01 O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE _____ : POTENTIAL ALLEGED

N/A

01 P ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 OBSERVED DATE _____ : POTENTIAL ALLEGED

Schrader Automotive and Winner Boats supposedly brought trailer loads of drummed waste degreasers, solvents, and paint waste.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Levels of ~~Elevated~~ levels of several pesticides were found within the landfill.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 30,615

IV. COMMENTS

Most dumping of questionable material was placed in the city dump prior to 1973.

V. SOURCES OF INFORMATION

EPA, State file material



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
01 STATE | 02 SITE NUMBER
TND 981467673

II. HAZARDOUS CONDITIONS AND INCIDENTS

31 A GROUNDWATER CONTAMINATION 02 OBSERVED DATE _____
33 POPULATION POTENTIALLY AFFECTED: 30,615 04 NARRATIVE DESCRIPTION

The private well was contaminated from TCE and there are two municipal wells within 4,000 feet.

31 B SURFACE WATER CONTAMINATION 02 OBSERVED DATE _____
33 POPULATION POTENTIALLY AFFECTED: 329,213 04 NARRATIVE DESCRIPTION

There is a surface water intake on the West Piney River within the 15-mile surface water pathway.

31 C CONTAMINATION OF AIR 02 OBSERVED DATE _____
33 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

31 D FIRE EXPLOSIVE CONDITIONS 02 OBSERVED DATE UNKNOWN
33 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A landfill attendant supposedly attempted to open a drum ~~for~~ the Erdice company had dumped, but it exploded.

31 E DIRECT CONTACT 02 OBSERVED DATE _____
33 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

N/A

31 F CONTAMINATION OF SOIL 02 OBSERVED DATE 11/20/91
33 POPULATION POTENTIALLY AFFECTED: ~ 30-74 04 NARRATIVE DESCRIPTION

Soils within the landfill were contaminated with high levels of pesticides, metals, and unidentified organics.

31 G DRINKING WATER CONTAMINATION 02 OBSERVED DATE 11/29/91
33 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Mr. Holt owns a home approximately 500 ft. east of the landfill and his private well was contaminated with TCE.

31 H WORKER EXPOSURE INJURY 02 OBSERVED DATE _____
33 WORKERS POTENTIALLY AFFECTED: 5-6 04 NARRATIVE DESCRIPTION

Landfill is still active; however, the old dump is not used.

31 I POPULATION EXPOSURE INJURY 02 OBSERVED DATE _____
33 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Area is not fenced off and pedestrian traffic is very possible.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

IND 981467673

II. PERMIT INFORMATION

01 TYPE OF PERMIT SS-ED STATE FORM #421	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
A. NPDES				
B. UIC				
C. AIR				
D. RCRA				
E. RCRA INTERIM STATUS				
F. SPCC PLAN				
G. STATE				
H. LOCAL				
I. OTHER				
J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT	05 OTHER
A. SURFACE IMPOUNDMENT			A. INCINERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
B. FILES			B. UNDERGROUND INJECTION	
C. DRUMS, ABOVE GROUND			C. CHEMICAL/PHYSICAL	
D. TANK, ABOVE GROUND			D. BIOLOGICAL	
E. TANK, BELOW GROUND			E. WASTE OIL PROCESSING	
F. LANDFILL			F. SOLVENT RECOVERY	
G. LANDFARM			G. OTHER RECYCLING/RECOVERY	
H. OPEN DUMP	unknown		H. OTHER	
I. OTHER				

07 COMMENTS

There is a landfill directly adjacent to the old city dump to the west that is presently being used.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES	02 BARRIERS, ETC.	03 COMMENTS	04 INSECURE, UNSOUND, DANGEROUS
A. ADEQUATE SECURE	B. MODERATE	<input checked="" type="checkbox"/> C. INADEQUATE, POOR	D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, LINERS, BARRIERS, ETC.

Most waste was in drums there was no liner for the old city dump.

V. ACCESSIBILITY

01 WASTE IS... ACCESSIBLE	02 YES	03 NO	04 DOCUMENTS

There are some drums visible but most are thought to be buried.

VI. SOURCES OF INFORMATION

State file material



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
TNC	9B1467673

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY <small>Check one or more boxes</small>		02 STATUS			03 DISTANCE TO SITE	
COMMUNITY	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
NON-COMMUNITY	C <input checked="" type="checkbox"/>	D <input checked="" type="checkbox"/>	A <input checked="" type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	
			D <input type="checkbox"/>	E <input type="checkbox"/>	F <input type="checkbox"/>	

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

- A ONLY SOURCE FOR DRINKING B DRINKING
Other types of drinking
COMMERCIAL, INDUSTRIAL IRRIGATION C COMMERCIAL, INDUSTRIAL IRRIGATION D NOT USED/UNUSEABLE
No other water source available

02 POPULATION SERVED BY GROUND WATER <u>30,615</u>	03 DISTANCE TO NEAREST DRINKING WATER WELL <u>500 ft.</u>
04 DEPTH TO GROUNDWATER <u>approx 110 ft.</u>	05 DIRECTION OF GROUNDWATER FLOW

Lateral flow toward northeast

06 DEPTH TO AQUIFER OF CONCERN
= 100 ft.

07 POTENTIAL YIELD OF AQUIFER
144,000 gpd

08 SOLE SOURCE AQUIFER
 YES NO

09 DESCRIPTION OF WELLS (INCLUDE DEPTHS, DRAWS, AND REACTIONS RELATING TO POLLUTION AND SUSPENSE)

Two municipal wells are located 4,000 feet east of the landfill, are 167-183 ft. deep.

10 RECHARGE AREA <input checked="" type="checkbox"/> YES	COMMENTS primarily from precipitation on the uplands.
<input type="checkbox"/> NO	

11 DISCHARGE AREA <input type="checkbox"/> YES	COMMENTS
<input type="checkbox"/> NO	

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

- A RESERVOIR, RECREATION, DRINKING WATER SOURCE B IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES C COMMERCIAL, INDUSTRIAL D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME	AFFECTED	DISTANCE TO SITE
Baker Branch	<input checked="" type="checkbox"/>	<u>0.2</u> mi
West Piney River	<input type="checkbox"/>	<u>1.2</u> mi
Wacley Branch	<input type="checkbox"/>	<u>1</u> mi

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE <u>A 570</u>	02 TWO (2) MILES OF SITE <u>B 1904</u> NO OF PERSONS	03 THREE (3) MILES OF SITE <u>C 5192</u>	04 DISTANCE TO NEAREST POPULATION <u>500 ft.</u>
05 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u> </u>	06 DISTANCE TO NEAREST OFF-SITE BUILDING <u> </u>		

07 POPULATION WITHIN VICINITY OF SITE (Provide approximate description of areas of population within 4 miles radius of site)

The immediate vicinity of the landfill is rural with many farms; however, within the 4-mile radius there are many large, residential areas.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

L IDENTIFICATION
01 STATE/02 SITE NUMBER
TND 981467673

VI. ENVIRONMENTAL INFORMATION

11 PERMEABILITY OF UNSATURATED ZONE CM/HOUR

A $10^{-7} - 10^{-6}$ cm/sec B $10^{-4} - 10^{-3}$ cm/sec C $10^{-1} - 10^{-2}$ cm/sec D GREATER THAN 10^{-3} cm/sec

12 PERMEABILITY OF BEDROCK CM/HOUR

A IMPERMEABLE B RELATIVELY IMPERMEABLE C RELATIVELY PERMEABLE D VERY PERMEABLE
 $10^{-1} - 10^{-2}$ cm/sec $10^{-2} - 10^{-3}$ cm/sec $10^{-3} - 10^{-4}$ cm/sec $10^{-4} - 10^{-5}$ cm/sec

13 DEPTH TO BEDROCK

C4 DEPTH OF CONTAMINATED SOIL ZONE
10 meters (m)

14 PRECIPITATION

3) ONE YEAR 24 HOUR RAINFALL
12 (in) 3 (in) C5 SLOPE
SITE SLOPE DIRECTION OF SITE SLOPE TERRAIN AVERAGE SLOPE
76 4 South %

15 FLOOD POTENTIAL

0 C6 SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
SITE IS IN _____ YEAR FLOODPLAIN

16 DISTANCE TO WETLANDS

3) DISTANCE TO CRITICAL HABITAT

ESTUARINE

OTHER

(inches)

A. _____ (in)

B. _____ (in)

ENDANGERED SPECIES: _____

17 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 1 (in)

B. 0.5-1 (in)

C. _____ (in) D. _____ (in)

18 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The Dickson County landfill is located in a very rural area with the city of Dickson approximately 1.5 miles to the north east.

VII. SOURCES OF INFORMATION

NUS Field Logbook, SSI Phase II Report for Dickson County Landfill



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

L IDENTIFICATION
01 STATE/02 SITE NUMBER
IND 981467673

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	3	Compuchem Labs for organic analysis	
SURFACE WATER	4		
WASTE			
AIR		Southwest Labs of Oklahoma for inorganic analysis	
RUNOFF			
SPILL			
SOIL	15		
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
pH	
conductivity	
temperature	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF HALLIBURTON NUS ENVIRONMENTAL
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED

Both Geophysics and Field Analytical Support Project (F.A.S.P.) were used to identify potentially contaminated areas + areas where drums may be present for the safety of the team + to help identify CLP samples.

VI. SOURCES OF INFORMATION

NUS field logbook



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION**

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION					I. IDENTIFICATION 01 STATE 02 SITE NUMBER TND 981467673
II. CURRENT OWNER(S)			PARENT COMPANY		
01 NAME <i>Dickson County</i>	02 D-B NUMBER	03 NAME	04 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	10 STREET ADDRESS P.O. Box 470, etc.	11 SIC CODE		
05 CITY <i>Dickson</i>	06 STATE <i>TN</i>	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	10 STREET ADDRESS P.O. Box 470, etc.	11 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	10 STREET ADDRESS P.O. Box 470, etc.	11 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME	02 D-B NUMBER	03 NAME	04 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	10 STREET ADDRESS P.O. Box 470, etc.	11 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S)			IV. REALTY OWNER(S)		
01 NAME <i>City of Dickson</i>	02 D-B NUMBER	03 NAME	04 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE		
05 CITY <i>Dickson</i>	06 STATE <i>TN</i>	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME	02 D-B NUMBER	01 NAME	02 D-B NUMBER		
03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE	03 STREET ADDRESS P.O. Box 470, etc.	04 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION					



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART II - OPERATOR INFORMATION

IDENTIFICATION
01 STATE | 02 SITE NUMBER
TND | 9B1467673

II. CURRENT OPERATOR		OPERATOR'S PARENT COMPANY	
01 NAME	02 D-B NUMBER	10 NAME	11 D-B NUMBER
03 STREET ADDRESS P.O. Box 4804 MC	04 SIC CODE	12 STREET ADDRESS P.O. Box 4804 MC	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER		
III. PREVIOUS OPERATOR(S) (List most recent first, show only if different from owner)		PREVIOUS OPERATORS' PARENT COMPANIES	
01 NAME	02 D-B NUMBER	10 NAME	11 D-B NUMBER
03 STREET ADDRESS P.O. Box 4804 MC	04 SIC CODE	12 STREET ADDRESS P.O. Box 4804 MC	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		
01 NAME	02 D-B NUMBER	10 NAME	11 D-B NUMBER
03 STREET ADDRESS P.O. Box 4804 MC	04 SIC CODE	12 STREET ADDRESS P.O. Box 4804 MC	13 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		
IV. SOURCES OF INFORMATION (Check sources referenced in Q. 2000 that apply to this report)			



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
O1 STATE	O2 SITE NUMBER
TND	981467673

II. ON-SITE GENERATOR

O1 NAME	O2 D-B NUMBER		
O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE		
O5 CITY	O6 STATE O7 ZIP CODE		

III. OFF-SITE GENERATOR(S)

O1 NAME	O2 D-B NUMBER	O3 NAME	O4 D-B NUMBER
O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE	O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE
O5 CITY	O6 STATE O7 ZIP CODE	O5 CITY	O6 STATE O7 ZIP CODE
O1 NAME	O2 D-B NUMBER	O1 NAME	O2 D-B NUMBER
O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE	O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE
O5 CITY	O6 STATE O7 ZIP CODE	O5 CITY	O6 STATE O7 ZIP CODE

IV. TRANSPORTER(S)

O1 NAME	O2 D-B NUMBER	O3 NAME	O4 D-B NUMBER
O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE	O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE
O5 CITY	O6 STATE O7 ZIP CODE	O5 CITY	O6 STATE O7 ZIP CODE
O1 NAME	O2 D-B NUMBER	O1 NAME	O2 D-B NUMBER
O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE	O3 STREET ADDRESS P.O. Box 450000	O4 SIC CODE
O5 CITY	O6 STATE O7 ZIP CODE	O5 CITY	O6 STATE O7 ZIP CODE

V. SOURCES OF INFORMATION (Check applicable boxes.)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION
01 STATE | 02 SITE NUMBER
TND 481467673

II. PAST RESPONSE ACTIVITIES

01 A WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 B TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 C PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 D SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 E CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 F WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 G WASTE DISPOSED ELSEWHERE 04 DESCRIPTION Drums from Winner Boats containing Acetone, paint waste, + rainwater were removed from the Dump.	02 DATE	03 AGENCY County
N/A		
01 H ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 I IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 J IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 K IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 L ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 M EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 N CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 O EMERGENCY DRAINING SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 P CUTOFF TRENCHES SUMP 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		
01 Q SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	03 AGENCY
N/A		



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION
01 STATE | 02 SITE NUMBER
TND | 981467673

II PAST RESPONSE ACTIVITIES

01 T R BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 T S CAPPING COVERING
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 T T BULK TANKAGE REPAIRED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 U GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 V BOTTOM SEALED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 W GAS CONTROL
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 X FIRE CONTROL
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 Y LEACHATE TREATMENT
04 DESCRIPTION

None

02 DATE _____ 03 AGENCY _____

01 Z AREA EVACUATED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 AA ACCESS TO SITE RESTRICTED
04 DESCRIPTION

No - area is open

02 DATE _____ 03 AGENCY _____

01 BB POPULATION RELOCATED
04 DESCRIPTION

N/A

02 DATE _____ 03 AGENCY _____

01 CC OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

None known.

02 DATE _____ 03 AGENCY _____

III. SOURCES OF INFORMATION

State files, NUS fieldlogbook



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE **TND** 02 SITE NUMBER **981467673**

II. ENFORCEMENT INFORMATION

11. FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION YES NO

12. DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY ENFORCEMENT ACTION

Hans The state had several notices of unsatisfactory cover, dead animals, and people going through trash.

III. SOURCES OF INFORMATION (Indicate sources e.g. item files, correspondence, reports)

State file material

APPENDIX

I. FEEDSTOCKS

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 7664-41-7	Ammonia	14. 1317-38-0	Cupric Oxide	27. 7778-50-9	Potassium Dichromate
2. 7440-38-0	Antimony	15. 7758-98-7	Cupric Sulfate	28. 1310-58-3	Potassium Hydroxide
3. 1309-54-4	Antimony Trioxide	16. 1317-38-1	Cuprous Oxide	29. 115-07-1	Propane
4. 7440-38-2	Arsenic	17. 74-85-1	Ethylene	30. 10588-01-9	Sodium Dichromate
5. 1327-53-3	Arsenic Trioxide	18. 7647-01-0	Hydrochloric Acid	31. 1310-73-2	Sodium Hydroxide
6. 21109-95-5	Barium Sulfide	19. 7684-39-3	Hydrogen Fluoride	32. 7646-78-6	Stannic Chloride
7. 7726-95-6	Bromine	20. 1335-25-7	Lead Oxide	33. 7772-99-3	Stannous Chloride
8. 106-99-0	Butadiene	21. 7439-97-6	Mercury	34. 7664-93-9	Sulfuric Acid
9. 7440-43-9	Cadmium	22. 74-82-8	Methane	35. 108-88-3	Toluene
10. 7782-50-5	Chlorine	23. 91-20-3	Naphthalene	36. 1330-20-7	Xylene
11. 12737-27-8	Chromite	24. 7440-02-0	Nickel	37. 7646-85-7	Zinc Chloride
12. 7440-47-3	Chromium	25. 7697-37-2	Nitric Acid	38. 7733-02-0	Zinc Sulfate
13. 7440-48-4	Cobalt	26. 7723-14-0	Phosphorus		

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
1. 75-07-0	Acetaldehyde	47. 1303-33-9	Arsenic Trisulfide	92. 142-71-2	Cupric Acetate
2. 64-19-7	Acetic Acid	48. 542-62-1	Barium Cyanide	93. 12002-03-8	Cupric Acetoarsenite
3. 108-24-7	Acetic Anhydride	49. 71-43-2	Benzene	94. 7447-39-4	Cupric Chloride
4. 75-86-5	Acetone Cyanhydrin	50. 65-85-0	Benzoic Acid	95. 3251-23-8	Cupric Nitrate
5. 505-96-7	Acetyl Bromide	51. 100-47-0	Benzonitrile	96. 5893-66-3	Cupric Oxalate
6. 75-38-5	Acetyl Chloride	52. 98-88-4	Benzoyl Chloride	97. 7758-98-7	Cupric Sulfate
7. 107-02-8	Acrolein	53. 100-44-7	Benzyl Chloride	98. 10380-29-7	Cupric Sulfate Ammoniated
8. 107-13-1	Acrylonitrile	54. 7440-41-7	Beryllium	99. 815-82-7	Cupric Tartrate
9. 124-04-9	Adipic Acid	55. 7787-47-5	Beryllium Chloride	100. 506-77-4	Cyanogen Chloride
10. 309-00-2	Aldrin	56. 7787-49-7	Beryllium Fluoride	101. 110-82-7	Cyclohexane
11. 10043-01-3	Aluminum Sulfate	57. 13587-99-4	Beryllium Nitrate	102. 94-75-7	2,4-D Acid
12. 107-18-6	Allyl Alcohol	58. 123-86-4	Butyl Acetate	103. 94-11-1	2,4-D Esters
13. 107-05-1	Allyl Chloride	59. 84-74-2	n-Butyl Phthalate	104. 50-29-3	DDT
14. 7664-41-7	Ammonia	60. 109-73-9	Butylamine	105. 333-41-5	Diazinon
15. 631-61-8	Ammonium Acetate	61. 107-92-6	Butyric Acid	106. 1918-00-9	Dicamba
16. 1863-63-4	Ammonium Benzoate	62. 543-90-8	Cadmium Acetate	107. 1194-65-6	Dichlobenil
17. 1066-33-7	Ammonium Bicarbonate	63. 7789-42-6	Cadmium Bromide	108. 117-80-6	Dichlone
18. 7789-09-5	Ammonium Bisulfamate	64. 10108-64-2	Cadmium Chloride	109. 25321-22-6	Dichlorobenzene (all isomers)
19. 1341-49-7	Ammonium Bisulfide	65. 7778-44-1	Calcium Arsenite	110. 266-38-19-7	Dichloropropane (all isomers)
20. 10192-30-0	Ammonium Bisulfite	66. 52740-16-8	Calcium Arsenite	111. 26962-23-8	Dichloropropene (all isomers)
21. 1111-78-0	Ammonium Carbamate	67. 75-20-7	Calcium Carbide	112. 8003-19-8	Dichloropropene-
22. 12125-02-9	Ammonium Chloride	68. 13765-19-0	Calcium Chromate		Dichloropropene Mixture
23. 7788-88-9	Ammonium Chromate	69. 592-01-8	Calcium Cyanide	113. 75-99-0	2,2-Dichloropropionic Acid
24. 3012-65-5	Ammonium Citrate, Dibasic	70. 26264-06-2	Calcium Dodecylbenzenesulfonate	114. 82-73-7	Dichlorvos
25. 13826-83-0	Ammonium Fluoborate		Sulfonate	115. 80-57-1	Diadrin
26. 12125-01-8	Ammonium Fluoride	71. 7778-54-3	Calcium Hypochlorite	116. 108-89-7	Diethylamine
27. 1336-21-6	Ammonium Hydroxide	72. 133-06-2	Captan	117. 124-40-3	Dimethylamine
28. 6009-70-7	Ammonium Oxalate	73. 63-25-2	Carberry	118. 25154-54-5	Dinitrobenzene (all isomers)
29. 15919-19-0	Ammonium Silicofluoride	74. 1563-66-2	Carbofuran	119. 51-28-5	Dinitrophenol
30. 7773-06-0	Ammonium Sulfamate	75. 75-15-0	Carbon Disulfide	120. 25321-14-6	Dinitrotoluene (all isomers)
31. 12135-76-1	Ammonium Sulfide	76. 56-23-8	Carbon Tetrachloride	121. 85-00-7	Disulfat
32. 10196-04-0	Ammonium Sulfite	77. 57-74-8	Chiodane	122. 298-04-4	Disulfoton
33. 14307-43-8	Ammonium Tartrate	78. 7782-50-5	Chlorine	123. 330-54-1	Diuron
34. 1762-96-4	Ammonium Thiocyanate	79. 108-90-7	Chlorobenzene	124. 27176-87-0	Dodecylbenzenesulfonic Acid
35. 7783-18-8	Ammonium Thiosulfate	80. 87-88-3	Chloroform	125. 115-29-7	Endosulfan (all isomers)
36. 628-63-7	Amyl Acetate	81. 7790-84-8	Chlorosulfonic Acid	126. 72-20-8	Endrin and Metabolites
37. 62-53-3	Aniline	82. 2921-88-2	Chlorpyrifos	127. 106-89-8	Epichlorohydrin
38. 7847-18-9	Antimony Pentachloride	83. 1068-30-4	Chromic Acetate	128. 583-12-2	Ethion
39. 7789-61-9	Antimony Tribromide	84. 7738-94-8	Chromic Acid	129. 100-41-4	Ethyl Benzene
40. 10026-91-9	Antimony Trichloride	85. 10101-53-8	Chromic Sulfate	130. 107-15-3	Ethylene Diamine
41. 7783-58-4	Antimony Trifluoride	86. 10049-05-5	Chromous Chloride	131. 106-93-4	Ethylene Dibromide
42. 1309-64-4	Antimony Trioxide	87. 544-18-3	Cobaltous Formate	132. 107-06-2	Ethylene Dichloride
43. 1303-32-8	Arsenic Disulfide	88. 14017-41-5	Cobaltous Sulfamate	133. 60-00-4	EDTA
44. 1303-28-2	Arsenic Pentoxide	89. 56-72-4	Coumarophos	134. 1186-67-5	Ferric Ammonium Chloride
45. 7784-34-1	Arsenic Trichloride	90. 1319-77-3	Cresol	135. 2944-67-4	Ferric Ammonium Chloride
46. 1327-53-2	Arsenic Trioxide	91. 4170-30-3	Crotonaldehyde	136. 7705-08-0	Ferric Chloride

II. HAZARDOUS SUBSTANCES

CAS Number	Chemical Name	CAS Number	Chemical Name	CAS Number	Chemical Name
137. 7783-50-8	Ferric Fluoride	192. 74-89-5	Monomethylamine	249. 7632-00-0	Sodium Nitrate
138. 10421-48-4	Ferric Nitrate	193. 300-76-5	Naled	250. 7558-79-4	Sodium Phosphate, Dibasic
139. 10028-22-5	Ferric Sulfate	194. 91-20-3	Naphthalene	251. 7601-54-9	Sodium Phosphate, Tribasic
140. 13045-89-3	Ferrous Ammonium Sulfate	195. 1338-24-5	Naphthenic Acid	252. 10102-18-8	Sodium Selenite
141. 7758-94-3	Ferrous Chloride	196. 7440-02-0	Nickel	253. 7789-06-2	Strontium Chromate
142. 7720-78-7	Ferrous Sulfate	197. 15699-18-0	Nickel Ammonium Sulfate	254. 57-24-9	Strychnine and Salts
143. 206-44-0	Fluoranthene	198. 37211-05-5	Nickel Chloride	255. 100-420-5	Styrene
144. 50-00-0	Formaldehyde	199. 12054-48-7	Nickel Hydroxide	256. 12771-08-3	Sulfur Monochloride
145. 64-18-6	Formic Acid	200. 14215-75-2	Nickel Nitrate	257. 7684-93-9	Sulfuric Acid
146. 110-17-8	Fumaric Acid	201. 7786-81-4	Nickel Sulfate	258. 93-78-5	2,4,5-T Acid
147. 38-01-1	Furfural	202. 7897-37-2	Nitric Acid	259. 2008-46-0	2,4,5-T Amines
148. 36-50-0	Guthion	203. 98-95-3	Nitrobenzene	260. 93-79-8	2,4,5-T Esters
149. 76-44-8	Heptachlor	204. 10102-44-0	Nitrogen Dioxide	261. 13580-99-1	2,4,5-T Salts
150. 118-74-1	Hexachlorobenzene	205. 25154-55-6	Nitrophenol (all isomers)	262. 93-72-1	2,4,5-TP Acid
151. 87-68-3	Hexachlorobutadiene	206. 1321-12-6	Nitrotoluene	263. 32534-95-5	2,4,5-TP Acid Esters
152. 67-72-1	Hexachloroethane	207. 30625-99-4	Paraformaldehyde	264. 72-54-8	TDE
153. 70-30-4	Hexachlorophene	208. 56-38-2	Parathion	265. 95-94-3	Tetrachlorobenzene
154. 77-47-4	Hexachlorocyclopentadiene	209. 608-93-5	Pentachlorobenzene	266. 127-18-4	Tetrachloroethane
155. 1647-01-0	Hydrochloric Acid (Hydrogen Chloride)	210. 87-86-5	Pentachlorophenol	267. 78-00-2	Tetraethyl Lead
156. 7684-39-3	Hydrofluoric Acid (Hydrogen Fluoride)	211. 85-01-8	Phenanthrene	268. 107-49-3	Tetraethyl Pyrophosphate
157. 74-90-8	Hydrogen Cyanide	212. 108-95-2	Phenol	269. 7446-18-6	Thallium (II) Sulfate
158. 7783-06-4	Hydrogen Sulfide	213. 75-44-5	Phosgene	270. 108-88-3	Toluene
159. 78-79-5	Isoprene	214. 7684-38-2	Phosphoric Acid	271. 8001-35-2	Toxaphene
160. 42504-46-1	Isopropanolamine Dodecyldibenzenesulfonate	215. 7723-14-0	Phosphorus	272. 12002-48-1	Trichlorobenzene (all isomers)
161. 115-32-2	Keithane	216. 10025-87-3	Phosphorus Oxychloride	273. 52-68-6	Trichlorofuran
162. 143-50-0	Kepone	217. 1314-80-3	Phosphorus Pentasulfide	274. 25323-89-1	Trichloroethane (all isomers)
163. 301-04-2	Lead Acetate	218. 9719-12-2	Phosphorus Trichloride	275. 79-01-6	Trichloroethylene
164. 3687-31-8	Lead Arsenate	219. 1784-41-0	Potassium Arsenite	276. 25167-82-2	Trichlorophenol (all isomers)
165. 7758-95-4	Lead Chloride	220. 10124-50-2	Potassium Arsenite	277. 27323-41-7	Triethanolamine
166. 13814-96-5	Lead Fluoborate	221. 7778-50-9	Potassium Bichromate	278. 121-44-8	Dodecyldibenzenesulfonate
167. 7783-46-2	Lead Fluoride	222. 7789-00-6	Potassium Chromate	279. 75-50-3	Triethylamine
168. 10101-63-0	Lead Iodide	223. 7722-64-7	Potassium Permanganate	280. 941-09-3	Uranyl Acetate
169. 18256-98-9	Lead Nitrate	224. 2312-35-8	Propargite	281. 10102-06-4	Uranyl Nitrate
170. 7428-48-0	Lead Stearate	225. 79-09-4	Propionic Acid	282. 1314-62-1	Vanadium Pentoxide
171. 15739-80-7	Lead Sulfate	226. 123-62-6	Propionic Anhydride	283. 27774-13-8	Vanadyl Sulfate
172. 1314-87-0	Lead Sulfide	227. 1336-36-3	Polychlorinated Biphenyls	284. 108-05-4	Vinyl Acetate
173. 592-87-0	Lead Thiocyanate	228. 151-50-8	Potassium Cyanide	285. 75-35-4	Vinylidene Chloride
174. 58-89-9	Lindane	229. 1310-58-3	Potassium Hydroxide	286. 1300-71-6	Xylenol
175. 14307-35-8	Lithium Chromate	230. 75-56-9	Propylene Oxide	287. 557-34-8	Zinc Acetate
176. 121-75-5	Malathion	231. 121-29-9	Pyrethrins	288. 52628-25-8	Zinc Ammonium Chloride
177. 110-16-7	Maleic Acid	232. 91-22-5	Quinoline	289. 1332-07-6	Zinc Borate
178. 108-31-8	Maleic Anhydride	233. 108-46-3	Resorcinol	290. 7699-48-8	Zinc Bromide
179. 2032-65-7	Mercaptodimethyl	234. 7448-08-4	Selenium Oxide	291. 3486-35-9	Zinc Carbonate
180. 592-04-1	Mercuric Cyanide	235. 7781-38-8	Silver Nitrate	292. 7646-85-7	Zinc Chloride
181. 10045-94-0	Mercuric Nitrate	236. 7631-89-2	Sodium Arsenite	293. 557-21-1	Zinc Cyanide
182. 7783-35-9	Mercuric Sulfate	237. 7784-46-5	Sodium Arsenite	294. 7783-49-3	Zinc Fluoride
183. 592-85-8	Mercuric Thiocyanate	238. 10588-01-9	Sodium Bichromate	295. 557-41-5	Zinc Formate
184. 13415-75-5	Mercurous Nitrate	239. 1333-83-1	Sodium Bifluoride	296. 7770-88-4	Zinc Hydroxulfite
185. 72-43-5	Methoxychlor	240. 1631-90-5	Sodium Bisulfite	297. 7779-88-6	Zinc Nitrate
186. 74-93-1	Methyl Mercaptan	241. 7775-11-3	Sodium Chromate	298. 127-82-2	Zinc Phenoxulfonate
187. 80-62-6	Methyl Methacrylate	242. 143-33-9	Sodium Cyanide	299. 1314-84-7	Zinc Phosphate
188. 298-00-0	Methyl Parathion	243. 25155-30-0	Sodium Dodecybenzene Sulfonate	300. 16871-71-9	Zinc Silicate
189. 7786-34-7	Mevinphos	244. 7681-49-4	Sodium Fluoride	301. 7733-02-0	Zinc Sulfate
190. 315-18-4	Mexacarbate	245. 16721-80-5	Sodium Hydroxide	302. 13748-89-9	Zirconium Nitrate
191. 75-04-7	Monoethylamine	246. 1310-73-2	Sodium Hypochlorite	303. 16923-95-8	Zirconium Potassium Sulfate
		247. 7681-52-9	Sodium Methylate	304. 14844-81-2	Zirconium Sulfate
		248. 124-41-4	Sodium Methylate	305. 10026-11-6	Zirconium Tetrachloride