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FINAL
SITE SCREENING INVESTIGATION REPORT
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA
NCD024600579

Prepared Under
TDD No. F4-8708-17
CONTRACT NO. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

AUGUST 30, 1988

NUS CORPORATION
SUPERFUND DIVISION

CERCLA

Prepared By	Reviewed By	Approved By
Kent Hankinson	Greg Schank	Murray Warner, P.E.
Project Manager	Assistant Regional Project Manager	Regional Project Manager

NOTICE

The information in this document has been funded wholly by the United States Environmental Protection Agency (EPA) under Contract Number 68-01-7346 and is considered proprietary to the EPA.

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EXECUTIVE SUMMARY

Superior Products Company occupies 12 acres of land 2.5 miles east of Greensboro, North Carolina on Highway 70-A. The facility is located along the west bank of South Buffalo Creek, a tributary to the Cape Fear River. Latitude and longitude coordinates for the site are 36°05'15"N and 79°41'20"W.

Superior Products Company has been owned and operated by Seaboard Industries, Inc. of Doraville, Georgia since 1968. Seaboard Industries purchased the site from South Oil, a company who had used the facility as a re-refining plant since the late 1950's. Prior to 1975, the North Carolina Environmental Management Commission reprimanded the Superior Products Company for the following: unauthorized discharges to South Buffalo Creek, air emissions by an onsite oil heater and the release of oil into surface soil. From late 1975 to early 1976, the plant was ordered shut down for excavation and refilling of an unlined waste lagoon located less than 350 feet upslope of South Buffalo Creek. Three oil spills were also reported after the plant reopened as a blending and packaging facility in 1976.

Lead is the most ubiquitous contaminant detected in surface soil and sediment collected at the site. Other contaminants include chromium, nickel, xylene and methyldecane. Analyses of two groundwater samples from two wells in the area suggest that groundwater is not contaminated with these constituents. This might be explained by the local geology of the area.

Stratigraphy of the North Carolina Piedmont consists of folded and fractured igneous and metamorphic bedrock overlain by regolith. Regolith locally consists of a low permeability layer, saprolite, which can retard or block recharge from the surface. Degree of confinement is a function of saprolite clay content. However, the major hydrologic role of regolith is that of a reservoir which slowly feeds water downward into fractured bedrock.

Approximately 8000 people living within 4 miles of Superior Products Company are served by private wells. These wells are completed in massive to foliated metamorphosed granite and gneiss whose upper surface is 30 to 50 feet bls. A total of 2100 private wells ranging in depth from 150 to 200 feet were estimated from the target survey. Average yield of these wells is approximately 18 gal/min.

Presence and nature of contamination at Superior Products has been documented as a result of this investigation. Future study of the facility should involve placement of monitor wells to define the horizontal and vertical extent of the contamination. Therefore, an LSI is recommended.

SUPERIOR PRODUCTS COMPANY

1.0 INTRODUCTION

The NUS Corporation Region 4 Field Investigation Team (FIT) has been tasked by the U.S. Environmental Protection Agency (EPA), Waste Management Division to conduct a Site Screening Investigation (SSI) at Superior Products Company in Greensboro, Guilford County, North Carolina. 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 F4-8708-17.

1.1 OBJECTIVE

The objective of this investigation was to determine if further pre-remedial action is warranted at the Superior Products Company.

1.2 SCOPE

This Site Screening Investigation had two parts: a sampling investigation and a target survey. The sampling investigation consisted of collection of seven soil and sediment samples and four surface water and groundwater samples. A survey of residents served by groundwater involved counting the number of houses with private wells for potable water supply. Local businesses and industries were also counted. The area surveyed for potential targets can be described as a circle with a four-mile radius having the Superior Products "process area" as its center.

LAKE BRANDT, N. C.
N3607.5—W7945/7.5
1951
PHOTOREVISED 1968
AMS 5056 III NE—SERIES V842

BROWNS SUMMIT, N. C.
N3607.5-W7937.5/7.5
1951
PHOTOREVISED 1968
AMS 5056 II NW—SERIES V842

GREENSBORO, N. C.
36079-A7-TF-024
1951
PHOTOREVISED 1968
DMA 5056 III SE-SERIES V842

MC LEANSVILLE, N. C.
N3600—W7937.5/7.5
1952
PHOTOREVISED 1968
AMS 5056 II SW—SERIES V842

1 MILE RADIUS
2 MILE RADIUS
3 MILE RADIUS
4 MILE RADIUS
Superior Products Company Site
Michael Lyle Private Well
CITY OF GREENSBORO WATER LINES

SCALE 1:24000
1 MILE
1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route · U.S. Route · State Route

Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and North Carolina Geodetic Survey
Culture and drainage in part compiled from aerial photographs taken 1948
Topography by plane-table surveys 1952
Polyconic projection. 1927 North American datum
10,000-foot grid based on North Carolina coordinate system
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue
Revisions shown in purple compiled from aerial photographs taken 1968. This information not field checked
Purple tint indicates urban areas

UTM GRID AND 1968 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
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Medium-duty — Unimproved dirt
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Mapped, edited, and published by the Geological
Control by USGS, USC&GS, USCE, and North Carolina Geodetic Survey
Topography by photogrammetric methods from aerial ph taken 1969. Field checked 1970
Polyconic projection. 1927 North American datum
10,000-foot grid based on North Carolina coordinate sy
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue
Fine red dashed lines indicate selected fence and field li generally visible on aerial photographs. This informatic
Red tint indicates areas in which only landmark building

2.0 SITE CHARACTERIZATION

2.1 SITE BACKGROUND

Superior Products is presently owned by Seaboard Industries, Inc. The facility does not meet the Resource Conservation and Recovery Act (RCRA) guidelines of June 10, 1986 for status as a RCRA generator. Therefore, the site has been evaluated under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) authorities.

A file describing activities and the history of regulatory actions at Superior Products Company (NCD024600579) has been compiled by the U.S. Environmental Protection Agency and by NUS FIT 4. Information from these sources is presented in the following sections.

2.2 SITE HISTORY

Superior Products Company has been owned and operated by Seaboard Industries, Inc. of Doraville, Georgia since 1968. Seaboard Industries purchased the site from South Oil, a company who had used the facility as a re-refining plant since the late 1950's (Refs. 1 and 2).

The facility has been used for two major activities: custom blending and re-refining of oil. Since 1976, plant activities have been limited to blending and packaging specialty oil products. Virgin oil is bought and delivered to the site in bulk. It is then custom blended and packaged onsite for sale as "Superior Brand" motor oil, transmission fluid and diesel lubricants (Ref. 1). Re-refining processes at the plant were in operation from the late 1950's to April 1975 (Refs. 1 and 2). Runoff from the refining process area was contained in an unlined holding lagoon between the facility and South Buffalo Creek (Ref. 1).

The process of re-refining is known to generate hazardous chemicals. Re-refining is the application of petroleum refining processes to used lubricating oil to produce high quality lubricating base oil. Processes may include distillation, hydrotreating or treatments with acid, caustic, solvent or clay. Distillation is provided to separate oil into constituent chemical fractions. The hydrotreating process removes sulfur. In most cases, additional processing is required. For example, extraction of aromatic material from lubricating oil is achieved in order to improve its viscosity. Previous studies investigating composition of used oils and waste oils indicate that these liquids contain hazardous

chemical constituents. Of particular interest is the inorganic makeup of used motor oil. Lead was found to be the predominant heavy metal and had a maximum concentration greater than 20,000 ppm. Other constituents associated with motor oils include calcium, barium, aluminum, phosphorus and zinc (Ref. 3).

There are four modern re-refining processes: PROP processing, BETC solvent-distillation, recyclon processing and KTI processing. It is not known which of these methods were used to re-refine oil at the facility. However, it is known that all of the above processes employ heat to distill or separate feedstock (i.e., used oil) into its constituent compounds. This process is known as fractional distillation or fractionation. Products of oil fractionation include paraffins, aromatics and fuel oil (Ref. 3).

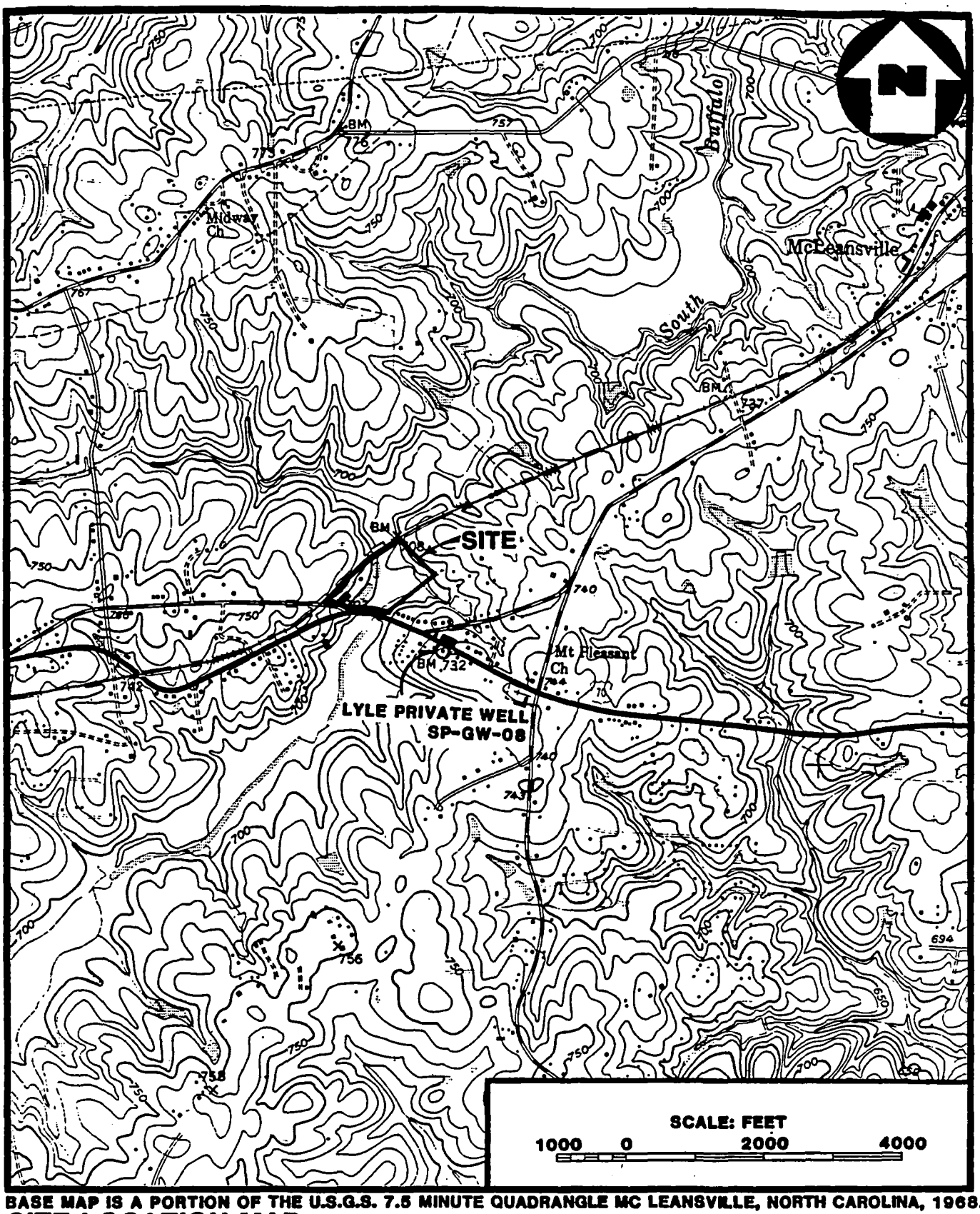
On May 8, 1975, Superior Products Company was served a consent order by the North Carolina Environmental Management Commission. The order was issued partly in response to unauthorized discharges of oil and wastewater to South Buffalo Creek. Furthermore, air emissions by an onsite oil heater and flash vaporizer violated North Carolina air quality standards. Specific requirements of the document included the removal of oil-soaked earth around oil-processing equipment and filling of the waste lagoon east of the facility (Ref. 4). In order to do this, the facility shut down from late 1975 to early 1976 (Ref. 2).

Three spills were reported after the clean-up operation was completed in 1976 (Ref. 5). One spill was documented by the North Carolina Natural Resources and Community Development Department (Refs. 1 and 6). Four hundred gallons of water and #5 fuel oil were discharged into South Buffalo Creek. Another spill was caused by vandals in 1985. A volume of approximately 50 gallons leaked onto the ground from a ruptured oil vessel (Ref. 1). Volume and details of a third spill occurring in 1980 are not available (Ref. 5). At the time of this writing, it was not known if these spills were cleaned.

2.3 SITE DESCRIPTION

2.3.1 Site Features

Superior Products Company occupies 12 acres of rural land 2.5 miles east of Greensboro, North Carolina on Highway 70A (Figure 2-1). The facility is located along the west bank of South Buffalo Creek, a tributary to the Cape Fear River. Latitude and longitude coordinates for the site are 36°05'15"N and 79°41'20"W.



BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE QUADRANGLE MC LEANSVILLE, NORTH CAROLINA, 1968.

SITE LOCATION MAP
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

FIGURE 2-1

NUS CORPORATION
A Halliburton Company

The facility consists of a receiving office, a warehouse, a worker shed, and more than 20 storage and refining vessels. Other features include a pond, a waste pit, and a railroad which forms the northwestern border of the plant. State Road 2827 and Highway 70-A form the southern border of the site. The South Buffalo Creek valley lies north and east of the facility (Figure 2-2). Predominant topographic slope is east and northeast toward the creek.

The site is accessible from all sides except the portion of the northwestern border paralleled by tracks of Southern Railroad. A hurricane fence separates the site from the railroad and a forested ridge to the northwest. Site access is possible by walking across southern, eastern and northeastern boundaries (Figure 2-2).

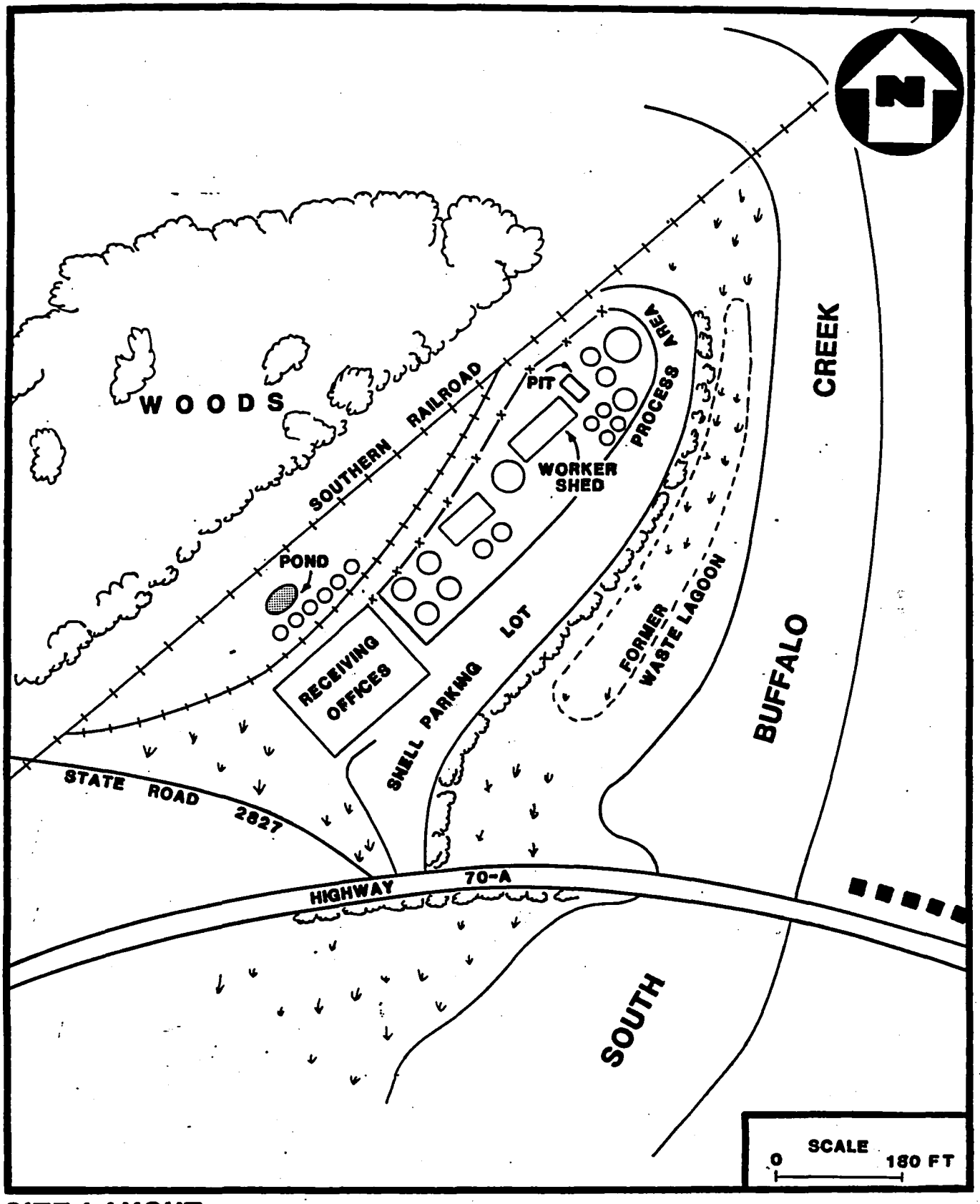
2.3.2 Waste Characteristics

Waste types expected at Superior Products Company consist of waste oil contaminated with heavy metals and volatile organic compounds (Refs. 3 and 5). It is probable that wastes still present at the site were generated by re-refining processes. Disposal and storage of these wastes were in an unlined lagoon estimated to have had a capacity of 700,000 gallons (Ref. 7).

2.4 ENVIRONMENTAL/REGIONAL SETTING

2.4.1 Demography

There are three major population centers within the Superior Products study area: Greensboro, Bessemer and McCleansville. Southeastern Greensboro is located 3 to 4 miles southwest of the facility. Approximately 900 residents live there (Ref. 8). Immediately to the north across Burlington Road lies the town of Bessemer. Bessemer has the highest population in the area with 5203 residents (Ref. 9). McCleansville is located in the northeastern quadrant of the study area and has 1500 residents (Ref. 10). Although the highest population density is in the westernmost portion of the study area, there are many homes located in the rural areas north, east and south of the facility. When excluding the above three towns from consideration, population distribution appears to be relatively uniform.



SITE LAYOUT
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

FIGURE 2-2

NUS CORPORATION

2.4.2 Land Use

Land use is 45% residential, 45% agricultural and 10% commercial and industrial (Ref. 8). As stated above, residential areas are found in every quadrant of the study area. Many of the rural residences are adjacent to large tracts of farmland and pasture land (Ref. 11). Commercial and industrial activity is concentrated in Bessemer, Greensboro and along Burlington Road (Highway 70-A) west of the facility.

2.5 HYDROLOGY

2.5.1 Climatology

Greensboro has a temperate climate with a mean annual temperature of 58° F and an average annual rainfall of 45.9 inches (Ref. 12). Annual lake evaporation for the area is 40.8 inches; therefore, net precipitation is 5.1 inches (Ref. 13).

2.5.2 Drainage Features

Greensboro is located in the Cape Fear River Basin. Water flowing adjacent to the site in South Buffalo Creek flows into North Buffalo Creek to form Buffalo Creek, which flows into the Haw River. From this point, water flows southeast into the Cape Fear River until it is discharged to the Atlantic Ocean (Refs. 14 and 15). Local surface water bodies include North Buffalo Creek, South Buffalo Creek and Blackwood Creek. South Buffalo Creek has the greatest potential of being affected by offsite drainage of contaminants produced at the site.

The site rests on a slope which has its lowest elevation in the stream bed of South Buffalo Creek. Drainage pathways from the Superior Products processing area to the creek are well integrated to the east and northeast. However, a berm strikes parallel to the southeastern margin of the site 150 feet from the plant and 200 feet from South Buffalo Creek.

2.5.3 Surface Water Use

Residents living within 4 miles of Superior Products Company obtain drinking water from both surface and groundwater sources. Greensboro city water lines supply residents living along Highway 70 and Interstate 85 with surface water from three impounded reservoirs: Lake Brandt, Lake

Townsend and Lake Higgins (Ref. 16). The surface water intakes are not located along the surface water migration pathway and hence are not considered a factor in this study. There are no sensitive environments within a 4-mile radius of the facility.

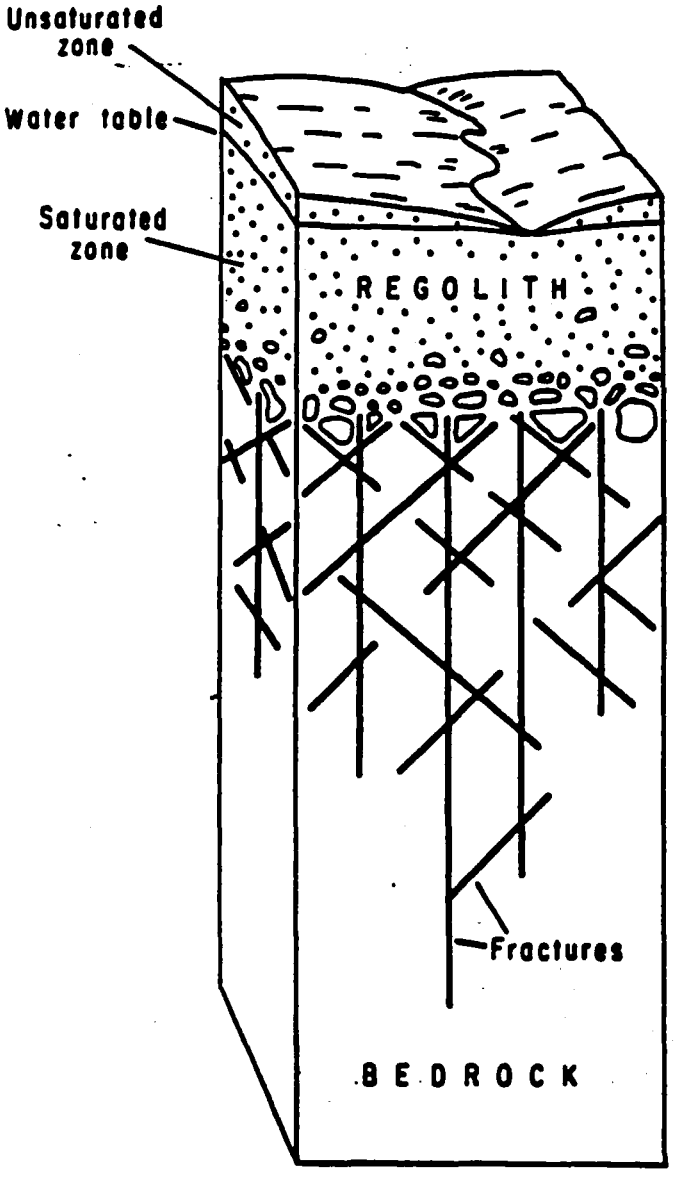
2.6 HYDROGEOLOGY

2.6.1 Aquifer Description

Superior Products Company is located in the Carolina Slate Belt region of the Piedmont physiographic province. Topography of the area consists of low, rounded hills and long northeast-southwest trending ridges. Erosion and downcutting by streams has formed these ridges and has created a local topographic relief of 100 to 200 feet between ridge tops and stream bottoms. Summit altitudes are as high as 900 feet in the study area (Ref. 15).

Stratigraphy of the North Carolina Piedmont consists of folded and fractured igneous and metamorphic bedrock overlain by regolith. Regolith is an unconsolidated mixture of clay and fragmental material ranging in size from silt and sand to boulders. It can be divided into three layers: saprolite, alluvium and soil. Saprolite is a clay-rich residual material derived from in situ weathering of bedrock. In many valleys of the Piedmont, it has been eroded and bedrock is exposed or thinly covered by alluvial deposits. Soil is nearly everywhere present as a thin layer overlying saprolite and alluvium (Ref. 15).

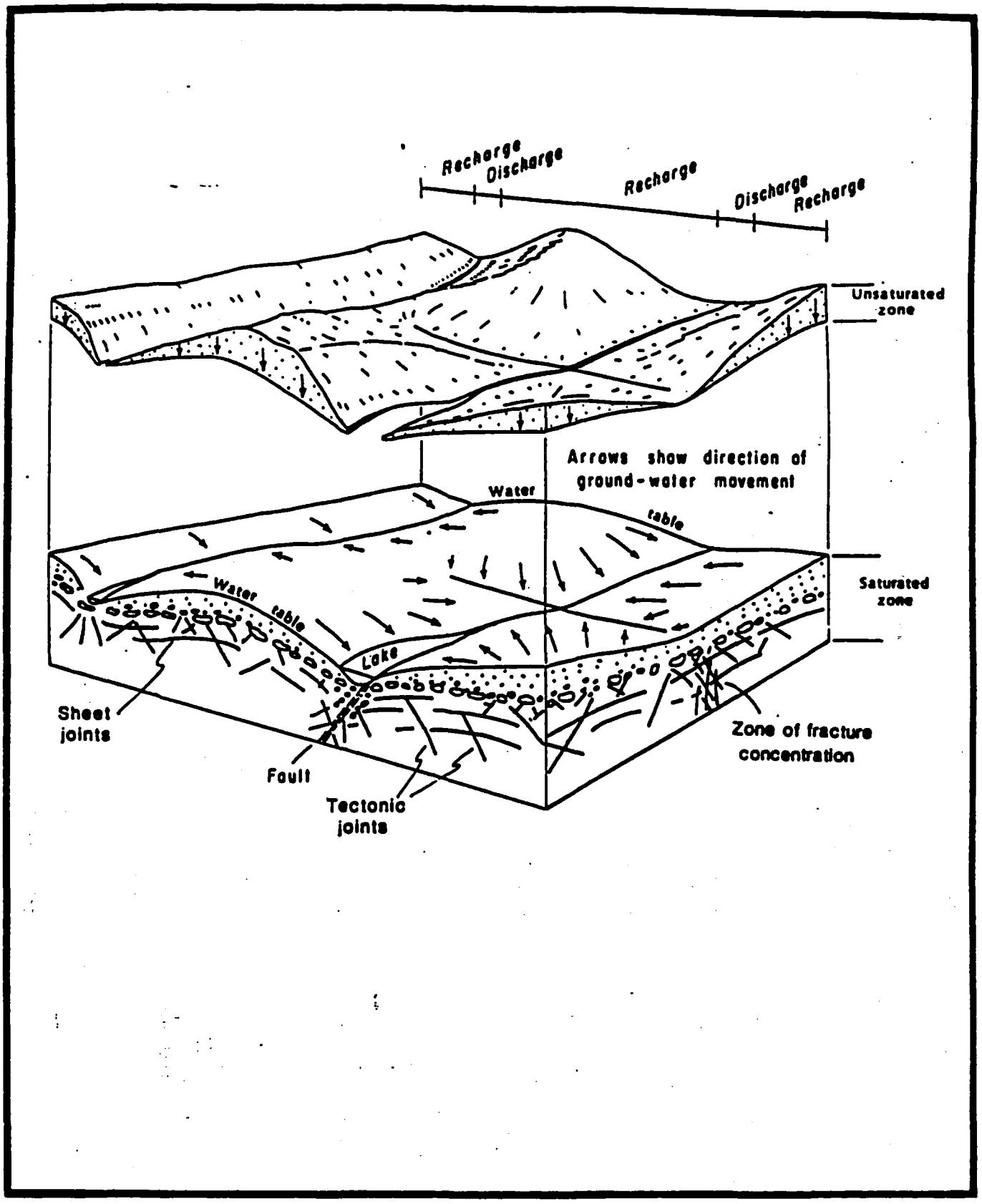
Principal components of the groundwater system at the site are illustrated in Figure 2-3. Groundwater is stored in the regolith and bedrock. Porosity of the regolith is 35 to 55 percent near land surface but decreases with depth as the degree of weathering decreases. Because of this high storage capacity, the regolith acts as a reservoir which slowly feeds water downward into the bedrock (Figure 2-4). Bedrock material has a much lower porosity and water is stored in planar openings which have developed as a result of fracturing. Therefore, wells completed in the Greensboro area must intersect fractures for the transmission of groundwater to the well (Ref. 15). In Piedmont stream valleys, the water table may be at or near land surface (Figure 2-4). During the FIT sampling investigation, it was noted that surface soil was damp in the vicinity of the old waste lagoon. Therefore, it is estimated that depth to the water table is less than 10 feet bls. Regolith thickness and depth to bedrock is probably 30 to 50 feet bls (Ref. 15). Bedrock at the site is composed of massive to foliated metamorphosed granite and gneiss. These rocks have been intruded by numerous basaltic dikes that locally make up half the total volume of the rock. This particular geologic unit is associated with a low average yield of 18 gal/min (Ref. 17).



PRINCIPAL COMPONENTS OF THE GROUNDWATER SYSTEM IN THE PIEDMONT AND BLUE RIDGE PROVICES IN NORTH CAROLINA. (MODIFIED FROM HEATH, 1978).

FIGURE 2-3

NUS CORPORATION



CONCEPTUAL VIEW OF THE UNSATURATED ZONE (LIFTED UP), THE WATER-TABLE SURFACE AND THE DIRECTION OF GROUNDWATER FLOW FOR A TYPICAL AREA IN THE PIEDMONT AND BLUE RIDGE PROVINCES OF NORTH CAROLINA. (MODIFIED FROM DANIEL AND SHARPLESS, 1983).

FIGURE 2-4

NUS CORPORATION

In conclusion, the groundwater system at the facility is probably dominated by water table conditions. Even though there are no known continuous confining beds, local confinement is presumed to exist. Degree of local confinement would be a function of the clay content of saprolite overlying bedrock.

2.6.2 Aquifer Use

There are 8000 people living within 4 miles of Superior Products Company who are served by private wells tapping the crystalline rock aquifer (Refs. 10 and 13). Chief usage of this water bearing zone is for drinking and agricultural purposes. There are 2100 private wells which range in depth from 150 to 200 feet in the study area (Refs. 11 an 16). The nearest well is located 1650 feet southeast of the Superior Products processing area.

3.0 TARGET ANALYSIS

3.1 GROUNDWATER ROUTE

The most important migration pathway to consider in this study is the groundwater route. Since 2100 private wells were counted within a 4-mile radius of the facility, it is estimated that 8000 people are served by groundwater. A total of 5000 people are served by groundwater within a 3-mile radius of the site.

3.2 SURFACE WATER ROUTE

There are three surface water reservoirs serving Greensboro residents with drinking water. They are Lake Townsend, Lake Brandt and Lake Higgins. These surface water bodies are located 9 to 15 miles northwest of Superior Products Company. North Buffalo Creek and the northeasternmost city limits of Greensboro separate the site and the three reservoirs. Furthermore, topography is dominated by ridges and valleys which trend northeast-southwest. Bearing these facts in mind, it does not seem probable for surface runoff to migrate over land from the site to the source(s) of drinking water for the city of Greensboro.

Contamination discharged into South Buffalo Creek also has a poor chance of entering the northern Greensboro lakes. Regional flow direction of the North Buffalo and South Buffalo creeks is toward the Haw River located east of Greensboro.

3.3 AIR ROUTE

The air route was not considered a migration pathway because re-refining processes have ceased and FIT monitoring equipment detected no airborne contaminants.

3.4 DIRECT CONTACT ROUTE

Direct contact hazards exist at Superior Products Company. Sludge mounds resting on surface soil can be accessed from Highway 70-A or the western stream bank of South Buffalo Creek because there is no fence to prevent passage. The mounds are known to be contaminated with lead, cadmium, chromium, nickel and copper.

4.0 FIELD INVESTIGATION

4.1 DESCRIPTION OF SAMPLE LOCATIONS

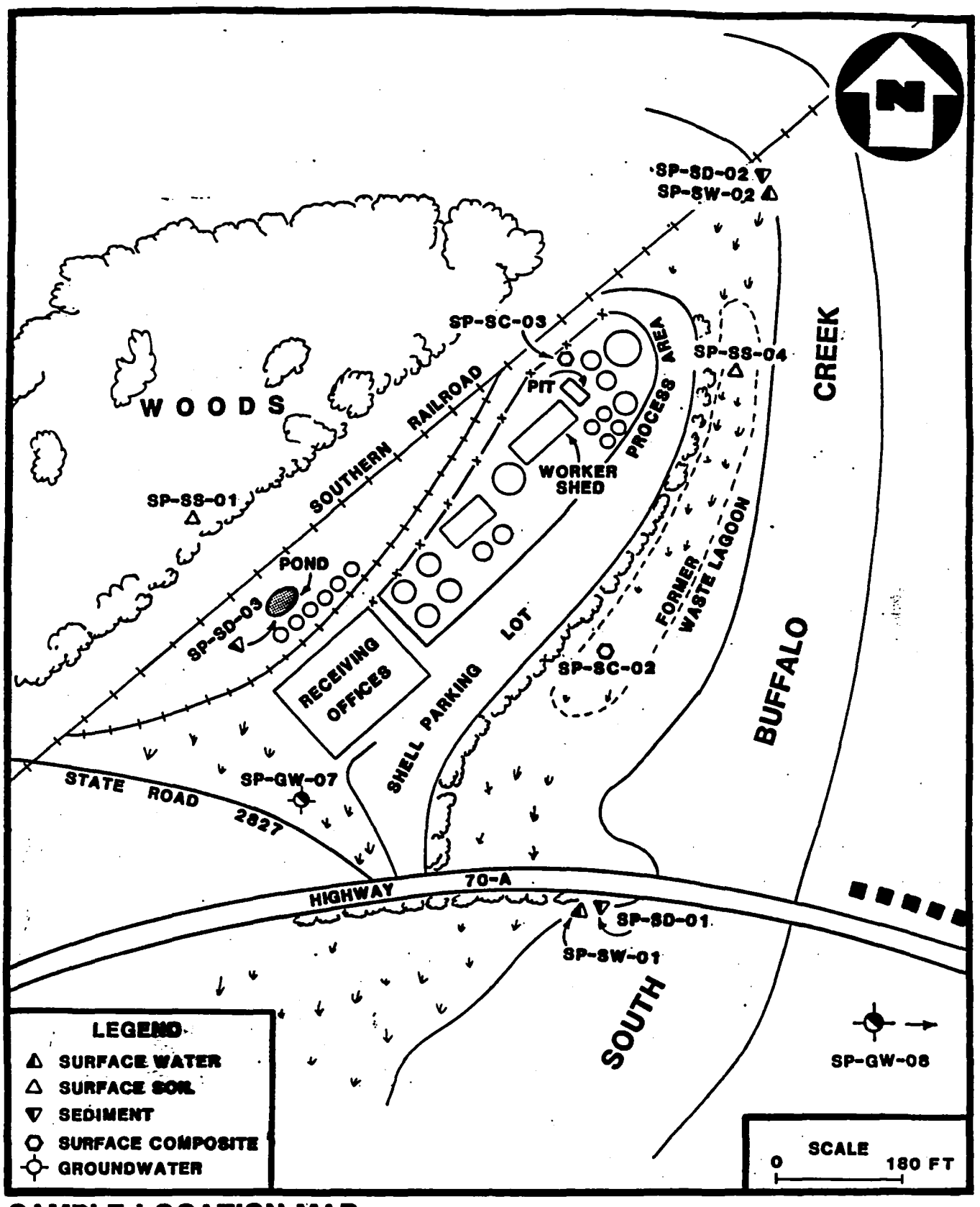
Environmental samples were collected from nine different sample localities on site and around the facility. Four surface soil samples were collected. SS-01 was a grab sample located northwest of the plant's receiving office, upslope and adjacent to tracks of Southern Railroad. CS-03 was a composite sample collected along the northwest margin of the process area. SS-04 and CS-02 were obtained from the area of the former waste lagoon situated between the plant and South Buffalo Creek. SS-04 was a grab sample of oily sand and sludge located 150 feet east of the processing area. CS-02 was a composite sample collected 200 feet southeast of the processing area. Three sediment samples were collected. SD-03 was obtained from a small pond located directly behind the receiving offices between tracks of the Southern Railroad. SD-01 and SD-02 were collected from the west bank of South Buffalo Creek. SD-01 was obtained as a control sample because it is located upstream of the facility. SD-02 was classified as a downgradient sample because it was collected from a location considered hydrologically downgradient of the facility. Surface water samples, SW-01 and SW-02, were also collected at upstream and downstream locations. Two groundwater samples were also obtained: one on site and one off site. Onsite groundwater sample, SP-GW-07, was collected from a well located 40 feet southwest of the receiving office entrance. Offsite groundwater sample SP-GW-08 was secured from a private well located 1,650 feet southeast of the facility. Groundwater from this well was collected from a faucet located in the backyard of Mr. Michael Lyle who resides on Highway 70-A (Figure 4-1, Table 4-1).

4.2 DUPLICATE SAMPLES

Mr. Lee Katz of Superior Products Company declined split samples. Michael Lyle also declined split samples.

4.3 FIELD MEASUREMENTS

Field measurements on all water samples collected during this investigation consisted of temperature, pH and conductivity. These measurements are listed in Table 4-2. Field measurements for the soil samples consisted only of the depth of collection. All sediment and surface soil were collected 4-6 inches below land surface.



SAMPLE LOCATION MAP
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

FIGURE 4-1

NUS CORPORATION

TABLE 4-1

SAMPLE CODE DESCRIPTIONS AND LOCATIONS
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

Sample Code	Description	Location
SP-SW-01	Surface water	South Buffalo Creek upstream. Background sample.
SP-SD-01	Stream sediment	South Buffalo Creek upstream. Background sample.
SP-SW-02	Surface water	South Buffalo Creek downstream.
SP-SD-02	Stream sediment	South Buffalo Creek downstream.
SP-SS-01	Surface soil	Northwest of receiving building.
SP-CS-02	Composite surface soil	East of receiving building.
SP-SD-03	Pond sediment	Onsite pond between railroad tracks behind receiving building.
SP-CS-03	Composite soil	Northwest of process area inside fence.
SP-SS-04	Surface sediment	East-southeast of process area.
SP-GW-07	Groundwater	Onsite well at office entrance.
SP-GW-08	Groundwater	Offsite private well on Highway 70-A.

TABLE 4-2

FIELD MEASUREMENTS
WATER SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

Sample Code	Date (1987)	Time (Hours)	Temp. (°C)	pH	Specific Conductance (umhos/cm)
SP-SW-01	10-28	0945	16	7.1	140
SP-SW-02	10-28	1035	16	7.1	140
SP-GW-07	10-28	1245	17	7.3	300
SP-GW-08	10-28	1145	20	6.7	440

4.4 ANALYTICAL LABORATORIES

Analytical services for environmental water, sediment and soil samples collected were provided by consulting laboratories as a part of the EPA Contract Laboratory Program. Rocky Mountain Analytical laboratories of Arvada, Colorado analyzed soil, sediment and water samples for inorganic compounds. Acurex of Mountain View, California performed organic analyses of soil, sediment and groundwater.

4.5 PRESENTATION OF ANALYTICAL RESULTS

4.5.1 Upgradient

Background surface soil, stream sediment and stream water samples were collected by NUS FIT 4. Upgradient surface soil contained ten inorganic constituents and presumptive evidence of two organic compounds. Aluminum, arsenic, barium, chromium, cobalt, iron, lead, magnesium, manganese and vanadium were detected in SP-SS-01. Organic compounds detected in this sample include bicycloheptene and hexadecanoic acid (Tables 4-3, 4-4).

4.5.2 Control

Stream sediment collected from South Buffalo Creek was also found to contain exotic constituents. Low concentrations of chromium, copper and lead were detected in SP-SD-01. A moderately high concentration of propoxypropene was also discovered in this sample (Table 4-5, 4-6).

Stream water from South Buffalo Creek exhibited no contamination. Nine inorganic constituents were detected in SP-SW-01. They were aluminum, barium, calcium, iron, magnesium, manganese, potassium, sodium and vanadium. Calcium had the highest concentration, 13,000 ug/l (Tables 4-7, 4-8).

TABLE 4-3

INORGANIC ANALYSES
SURFACE SOIL SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

PARAMETERS (mg/kg)	Upgradient	Onsite	Downgradient	
	SP-SS-01	SP-CS-03	SP-CS-02	SP-SS-04
ARSENIC	1JN	11JN	2JN	4.2JN
BARIUM	14	160	95	840
BERYLLIUM	-	-	-	0.29
CADMIUM	-	-	-	1.8
COBALT	4.5JN	9.9JN	12JN	5.3JN
CHROMIUM	23	34	17	23
COPPER	-	56	25	59
NICKEL	-	23J	9.3J	13J
LEAD	18J	11000J	110J	8000J
VANADIUM	35	29	31J	17
ZINC	-	110	50	850
ALUMINUM	4300	11,000	9100	6700
MANGANESE	91J	240J	260J	99J
CALCIUM	-	5600	1800	3300
MAGNESIUM	470	9000	3600	2300
IRON	10,000	16,000	12000	7200
POTASSIUM	-	2600J	-	-

- Material was analyzed for but not detected
J Estimated quantity
JN Presumptive evidence of material; estimated value

TABLE 4-4

ORGANIC ANALYSES
SURFACE SOIL SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

PARAMETERS (ug/kg)	Upgradient	Onsite	Downgradient	
	SP-SS-01	SP-CS-03	SP-CS-02	SP-SS-04
PURGEABLE COMPOUNDS				
TRICHLOROETHENE	-	-	-	2700J
TOTAL XYLENE	-	100	-	3900J
STYRENE	-	-	81J	-
TRIMETHYLBENZENE (3 ISOMERS)	-	300JN	-	(-)
TRIMETHYLBENZENE (2 ISOMERS)	-	-	-	20,000JN
ETHYLMETHYLBENZENE (2 ISOMERS)	-	100JN	-	(-)
ETHYLMETHYLBENZENE	-	-	-	9000JN
METHYLPROPYLBENZENE	-	30JN	-	-
ETHYLDIMETHYLBENZENE	-	60JN	-	-
DIMETHYLETHYLBENZENE	-	-	-	11,000JN
DECANE	-	200JN	-	-
UNDECANE	-	400JN	-	11,000JN
METHYLDECANE	-	60JN	-	-
CYCLOHEXYLDECANE	-	40JN	-	-
NONANE	-	-	-	10,000JN
DIMETYLNONANE	-	60JN	-	-
ETHYLDECANOL	-	60JN	-	10,000JN
UNIDENTIFIED COMPOUNDS (NO)	-	200J(4)	900J(1)	20,000J
EXTRACTABLE COMPOUNDS				
1,2-DICHLOROBENZENE	-	-	-	2700J
NAPHTHALENE	-	-	-	2900J
PHENANTHRENE	-	-	2600J	-
PHENOL	-	-	-	6200J
2-METHYLNAPTHALENE	-	-	-	2600J
HEXADECANOIC ACID	500JN	-	-	-
BICYCLOHEPTENE	400JN	-	-	-
CYCLOHEXADIENEDIONE	-	10,000JN	-	-
UNIDENTIFIED COMPOUNDS (NO.)	90,000J(17)	500,000J(19)	400,000J(20)	600J(20)

- Material was analyzed for but not detected
J Estimated quantity
JN Presumptive evidence of material; estimated value

TABLE 4-5

INORGANIC ANALYSES
SEDIMENT SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

PARAMETERS (mg/kg)	Control	Downgradient	Onsite
	SP-SD-01	SP-SD-02	SP-SD-03
ARSENIC	-	-	9.7JN
BARIUM	13	14	100
COBALT	2.8JN	2.3JN	17JN
CHROMIUM	5.9	4.6	140
COPPER	9.4	-	32
NICKEL	-	1.9J	60J
LEAD	5.2J	6.4J	48J
VANADIUM	7.4	4.9	39.0
ZINC	-	-	88
ALUMINUM	1400	1200	16,000
MANGANESE	81J	92J	330J
CALCIUM	-	-	3700
MAGNESIUM	310	290	9200
IRON	2500	2000	19,000

- Material was analyzed for but not detected
J Estimated quantity
JN Presumed evidence of material; estimated value

TABLE 4-6

ORGANIC ANALYSES
SEDIMENT SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

PARAMETERS (ug/kg)	Control	Onsite	Downgradient
	SP-SD-01	SP-SD-03	SP-SD-02
PURGEABLE COMPOUNDS			
TOTAL XYLENES	-	42J	-
NONANE	-	100JN	-
DIMETHYLNONANE	-	100JN	-
BUTYLOCTANOL	-	100JN	-
DIMETHYLOCTANOL	-	90JN	-
DECANE	-	400JN	-
UNDECANE	-	300JN	-
UNIDENTIFIED COMPOUNDS	-	600J(7)	-
EXTRACTABLE COMPOUND			
PROPOXYPROPENE	400JN	-	-
UNIDENTIFIED COMPOUNDS (NO.)	70,000J	500,000J (19)	20,000J (8)

- Material was analyzed for but not detected
J Estimated quantity
JN Presumptive evidence of material; estimated value

TABLE 4-7

INORGANIC ANALYSES
GROUNDWATER AND SURFACE WATER SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

PARAMETERS (ug/l)	Onsite	Offsite	Control	Downgradient
	SP-GW-07	SP-GW-08	SP-SW-01	SP-SW-02
BARIUM	67	6	35	34
COPPER	-	79	-	10
VANADIUM	-	7	9	9
ZINC	-	62	-	-
ALUMINUM	-	-	2000	1700
MANGANESE	380	-	86	81
CALCIUM	42,000	38,000	13,000	13,000
MAGNESIUM	9500	26,000	4000	4100
IRON	72	-	2500	2200
SODIUM	12,000	21,000	7400	7500
POTASSIUM	-	810	3500	3500
CYANIDE	-	-	-	0.00003

- Material was analyzed for but not detected

TABLE 4-8

ORGANIC ANALYSES
GROUNDWATER AND SURFACE WATER SAMPLES
SUPERIOR PRODUCTS COMPANY
GREENSBORO, NORTH CAROLINA

PARAMETERS (ug/l)	Onsite	Offsite	Control	Downgradient
	SP-GW-07	SP-GW-08	SP-SW-01	SP-SW-02
EXTRACTABLE COMPOUNDS				
UNIDENTIFIED COMPOUNDS (NO.)	300J(6)	200J(6)	300J(6)	100J(3)

4.5.3 Onsite

Onsite surface soil, pond sediment and groundwater samples were collected. Surface soil contained many different types of organic and inorganic constituents. Sediment collected from the onsite pond also exhibited a diverse suite of hazardous organic and inorganic components. Groundwater collected from an onsite well had no inorganic contamination; however, a moderately high concentration of unknown extractable compounds was identified (Tables 4-3 through 4-8).
Surface soil sample SP-CS-03 contained 15 inorganic constituents among which were arsenic, chromium, cobalt, copper, lead and nickel. Of this group, lead had the highest concentration and was over 600 times background. Copper and nickel had moderately high levels and exceeded background by factors of 56 and 23, respectively (Table 4-3). SP-CS-03 was also contaminated with hazardous organic compounds. Xylene and several unknown purgeable and extractable compounds were identified at levels significantly above background. For example, the concentration of xylene was 100 times greater than that for upgradient surface soil sample SP-SS-01 (Table 4-4).

Onsite surface soil was also presumed to be contaminated with aliphatic compounds and aromatic hydrocarbons other than xylene. Long-chained hydrocarbon molecules of decane, undecane, methyldecane, cyclohexyldecane and dimethylnonane were presumed to coexist in SP-CS-03 with trimethylbenzene, ethylmethylbenzene, ethyldimethylbenzene and methylpropylbenzene. Presence of these compounds in onsite surface soil would support the argument that the site was used for the disposal of waste oil (Table 4-4) (Ref. 3).

Sediment collected from the onsite pond was also contaminated with inorganics, aromatics, aliphatics and alcohols. SP-SD-03 contained 14 inorganic constituents among which were chromium, nickel, lead and copper. Chromium and nickel were both present in concentrations over 20 times that of the control sample, SP-SD-01. Copper and lead were also above the control sample. Xylene was 42 times the control. Aliphatic or paraffin compounds presumed present include nonane, decane, undecane and dimethylnonane. All were estimated above the control concentration. The same is true for butyloctanol and dimethyloctanol (Tables 4-5, 4-6).

Groundwater did not exhibit contamination by heavy metals or organic compounds. Six metals were present in onsite groundwater: barium, calcium, iron, magnesium, manganese and sodium. Calcium had the highest concentration, 42,000 ug/l. Additionally, as many as six unknown extractable compounds were identified in SP-GW-07 (Tables 4-7, 4-8).

4.5.4 Downgradient

Downgradient surface soil, stream sediment, stream water and groundwater were also collected. Surface soil samples SP-CS-02 and SP-SS-04 contained aluminum, barium, calcium, chromium, copper, iron, magnesium, vanadium and zinc. Arsenic and cobalt were presumed to exist in both samples and SP-SS-04 exhibited low concentrations of beryllium and cadmium. The highest degree of contamination in downgradient surface soil was by lead. Estimated concentrations of lead were greater than six times background in SP-CS-02 and over 440 times background in SP-SS-04. Low, estimated concentrations of nickel detected were also above background (Table 4-3).

Sediment collected downstream of the site along the western margin of South Buffalo Creek was contaminated with low estimated concentrations of lead and nickel. SP-SD-02 and SP-SD-03 each had lead and nickel levels above control concentration detected at SP-SD-01. Stream water sample SP-SW-02 was contaminated with a trace amount of cyanide (Table 4-5, 4-7).

4.5.5 Offsite

Groundwater collected from the Lyle private well, SP-GW-08, contained eight constituents: barium, copper, vanadium, zinc, calcium, magnesium, sodium and potassium. Calcium had the highest concentration at 38,000 ug/l. Copper in SP-GW-08 had a concentration of 79 ug/l (Table 4-7).

Low permeability of saprolite may help explain why the two water wells sampled were not contaminated. Another explanation for uncontaminated groundwater samples might be the location of those wells. Onsite well SP-GW-07 is located upgradient from the waste lagoon and lies far outside the presumed groundwater migration pathway between the process area and South Buffalo Creek (Figure 2-4). Likewise, groundwater collected from the Lyle well might have never mixed with contaminated water flowing from the site. South Buffalo Creek acts as a discharge zone for shallow groundwater between the site and the private well at GW-08 (Figure 2-4).

4.6 ANALYTICAL DATA QUALITY

All analytical data were subjected to a quality assurance review as described in the EPA Environmental Services Division laboratory data evaluation guidelines (Ref. 18). Data reported above the minimum detection limits have been compiled and are presented in Section 4.5,

Presentation of Analytical Results. Analytical data sheets are provided in Appendix A. As shown in the tables, some of the organic and inorganic parameters have been assigned estimated concentrations. This means that the qualitative analysis is acceptable but the reported concentration should not be considered accurate. A few other materials are noted as being detected based on the presumptive evidence of presence of the material. This means that the compound has been tentatively identified, and its detection cannot be used as a positive identification as to its presence. Some of the data have been determined to be invalid according to QA/QC procedures. Invalid data will not be used in this report. Repeat sampling and analysis would be necessary to confirm the results of all invalid data.

4.7 METHODOLOGY

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

All laboratory analyses and laboratory quality assurance procedures used during this investigation were in accordance with standard procedures and protocols as specified in the Analytical Support Branch Operations and Quality Assurance Manual; United States Environmental Protection Agency, Region IV, Environmental Services Division; revised June 1, 1985 or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.

5.0 SUMMARY OF FIELD INVESTIGATION

Results of environmental sample analyses indicated that contamination with inorganic and organic compounds is present at Superior Products Company. The highest contaminant levels were observed in surface soils located in the process area and former waste lagoon. Lead was 600 times background in process area soil and 400 times background in lagoon soil. Copper, nickel and chromium were also detected in the surface soil of these areas. Organic contamination of process area and lagoon soil was mainly in the form of aromatic and paraffin type hydrocarbons. Xylene, benzene and aliphatic paraffins of the methane series (decane, methyldecane) were presumed to be present in SP-CS-03 and SP-SS-04 surface soil. Offsite stream sediment and stream water samples were also contaminated with heavy metals. Low concentrations of chromium and lead appeared in South Buffalo Creek sediment collected from upstream and downstream sample locations. Additionally, a trace of cyanide was detected in South Buffalo Creek stream water at a downstream location relative to the site. Groundwater samples were not contaminated.

Potentially affected targets in the area are represented by local residents served by private wells. A total of 2100 private wells ranging in depth from 150 to 200 feet were estimated to be tapping the crystalline rock aquifer. This aquifer is recharged at the site by rainwater which slowly percolates downward through a 30 - 50 foot layer of regolith. Saprolite in the regolith commonly has very high porosity; however, drainable volume of a saturated unit is estimated at only 20 percent. This is a reflection of the clayey nature of weathered metamorphic bedrock. In areas where clay content of saprolite is especially high, one might expect locally confined groundwater conditions.

Low permeability of saprolite may also help explain why the two water wells sampled had low levels of contaminants. Also, the onsite well is located upgradient from the waste lagoon and lies far outside the presumed groundwater migration pathway between the process area and South Buffalo Creek. Likewise, groundwater collected from the Lyle well might never have mixed with contaminated water flowing from the site. South Buffalo Creek acts as a discharge zone for shallow groundwater between the site and the Lyle private well.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Presence, distribution and nature of contamination at Superior Products Company have been documented as a result of this investigation. Chemical analysis of soil and sediment suggests that lead, chromium, nickel and aromatic hydrocarbon compounds were released from onsite processing vessels into shallow soil. This contamination was attributed to the site based on interviews, file reviews and isolation of surrounding industries. Therefore, it is recommended that permanent monitor wells be installed downgradient of the lagoon and the process area west of South Buffalo Creek. Installation of these wells as part of a Listing Site Investigation (LSI) would provide clues to the vertical and horizontal extent of contaminated groundwater. Geophysical methods utilizing an EM conductivity meter and magnetometer would also be useful at the site. Since the upper 30 feet of the stratigraphic column is regolith partially composed of saprolitic clay, elevated background conductivities are expected. However, EM values measured over the former waste lagoon should be lower since hydrocarbon compounds are not characteristically conductive. Therefore, a geophysical investigation should be scheduled at the facility to delineate the extent of subsurface hydrocarbon contamination, and aid in determining sampling locations. A proton magnetometer should also be used to detect any drums or buried metal objects prior to monitor well installation.

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Appendix A

Sample Analyses

SITE NAME: Superior Products Co.
LOCATION: Greensboro, NC
DATE SAMPLED: 10-28-87

TDD NO.: F4-8708-17
EPA # 88-001

Soil/Sediment Samples

DATA SET COMPLETED:

Station	Cyanide	Metals	Purgeable	Purgeable, Misc.	Extractable	Extractable Misc.	Pest./PCBs	Remarks
SP-SD-01	1-29-88	1-29-88	12-28-87		12-28-87	12-28-87	12-28-87	
SP-SS-01	↓	↓	↓		↓	↓	↓	
SP-CS-02	↓	↓	↓	12-28-87	↓	↓	↓	
SP-SD-02	↓	↓	↓	↓	↓	↓	↓	
SP-CS-03	↓	↓	↓	12-28-87	↓	↓	↓	
SP-SD-03	↓	↓	↓	↓	↓	↓	↓	
SP-SS-04	↓	↓	↓	↓	↓	↓	↓	

Water Samples

Station	Cyanide	Metals	Purgeable	Purgeable, Misc.	Extractable	Extractable Misc.	Pest./PCBs	Remarks
SP-SW-01	1-29-88	1-29-88	12-28-87		12-28-87	12-28-87	12-28-87	
SP-SW-02	↓	↓	↓		↓	↓	↓	
SP-GW-07	↓	↓	↓		↓	↓	↓	
SP-GW-08	↓	↓	↓		↓	↓	↓	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM******

DATE: 01/22/88

SUBJECT: Results of Metals Analysis;
88-001 SUPERIOR PRODUCTS CO
GREENSBORO NC

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

TO: MURRAY WARNER

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

If you have any questions please contact me.

ATTACHMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM******

DATE: 01/23/88

SUBJECT: Results of Cyanide Analysis;
88-001 SUPERIOR PRODUCTS CO
GREENSBORO NC

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

TO: MURRAY WARNER

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

If you have any questions please contact me.

ATTACHMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM******

DATE: 12/18/87

SUBJECT: Results of Extractable Ogranic Analysis;
88-001 SUPERIOR PRODUCTS CO
GREENSBORO NC

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

TO: MURRAY WARNER

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

If you have any questions please contact me.

ATTACHMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM******

DATE: 12/18/87

SUBJECT: Results of Purgeable Organic Analysis;
88-001 SUPERIOR PRODUCTS CO
GREENSBORO NC

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

TO: MURRAY WARNER

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

If you have any questions please contact me.

ATTACHMENT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
COLLEGE STATION RD.
ATHENS, GA. 30613

*****MEMORANDUM******

DATE: 12/18/87

SUBJECT: Results of Pesticide/PCB Analysis;
88-001 SUPERIOR PRODUCTS CO
GREENSBORO NC

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

TO: MURRAY WARNER

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.

METALS DATA REPORT 01/22/88

PROJECT NO. 88-001 SAMPLE NO. 20835 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G143

MG/KG	ANALYTICAL RESULTS
1400	ALUMINUM
8.2UJ	ANTIMONY
0.8UJ	ARSENIC
13	BARIUM
0.27U	BERYLLIUM
1.3U	CADMIUM
490UJ	CALCIUM
5.9	CHROMIUM
2.8JN	COBALT
9.4	COPPER
2500	IRON
5.2J	LEAD
310	MAGNESIUM
81J	MANGANESE
0.13U	MERCURY
1.9UJ	NICKEL
80UJ	POTASSIUM
0.53UR	SELENIUM
1.3U	SILVER
399U	SODIUM
0.53U	THALLIUM
NA	TIN
7.4	VANADIUM
30UJ	ZINC
75	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
*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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20835 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F743 MD NO: G143

RESULTS	UNITS	PARAMETER
0.66U	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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20835 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-01

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NO.: F743

UG/KG	ANALYTICAL RESULTS
460UJ	PHENOL
460UJ	BIS(2-CHLOROETHYL) ETHER
460UJ	2-CHLOROPHENOL
460UJ	1,3-DICHLOROBENZENE
460UJ	1,4-DICHLOROBENZENE
460UJ	BENZYL ALCOHOL
460UJ	1,2-DICHLOROBENZENE
460UJ	2-METHYLPHENOL
460UJ	BIS(2-CHLOROISOPROPYL) ETHER
460UJ	(3-AND/OR 4-)METHYLPHENOL
460UJ	N-NITROSODI-N-PROPYLAMINE
460UJ	HEXACHLOROETHANE
460UJ	NITROBENZENE
460UJ	ISOPHORONE
460UJ	2-NITROPHENOL
460UJ	2,4-DIMETHYLPHENOL
2200UJ	BENZOIC ACID
460UJ	BIS(2-CHLOROETHOXY) METHANE
460UJ	2,4-DICHLOROPHENOL
460UJ	1,2,4-TRICHLOROBENZENE
460UJ	NAPHTHALENE
460UJ	4-CHLOROANILINE
460UJ	HEXACHLOROBUTADIENE
460UJ	4-CHLORO-3-METHYLPHENOL
460UJ	2-METHYLNAPHTHALENE
460UJ	HEXACHLOROCYCLOPENTADIENE (HCCP)
460UJ	2,4,6-TRICHLOROPHENOL
2200UJ	2,4,5-TRICHLOROPHENOL
460UJ	2-CHLORONAPHTHALENE
2200UJ	2-NITROANILINE
460UJ	DIMETHYL PHTHALATE
460UJ	ACENAPHTHYLENE
460UJ	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200UJ	3-NITROANILINE
460UJ	ACENAPHTHENE
2200UJ	2,4-DINITROPHENOL
2200UJ	4-NITROPHENOL
460UJ	DIBENZOFURAN
460UJ	2,4-DINITROTOLUENE
460UJ	DIETHYL PHTHALATE
460UJ	4-CHLOROPHENYL PHENYL ETHER
460UJ	FLUORENE
2200UJ	4-NITROANILINE
2200UJ	2-METHYL-4,6-DINITROPHENOL
460UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
460UJ	4-BROMOPHENYL PHENYL ETHER
460UJ	HEXACHLOROBENZENE (HCB)
2200UJ	PENTACHLOROPHENOL
460UJ	PHENANTHRENE
460UJ	ANTHRACENE
460UJ	DI-N-BUTYLPHTHALATE
460UJ	FLUORANTHENE
460UJ	PYRENE
460UJ	BENZYL BUTYL PHTHALATE
910UR	3,3'-DICHLOROBENZIDINE
460UJ	BENZO(A)ANTHRACENE
460UJ	CHRYSENE
460UJ	BIS(2-ETHYLHEXYL) PHTHALATE
460UJ	DI-N-OCTYLPHTHALATE
460UJ	BENZO(B AND/OR K)FLUORANTHENE
460UJ	BENZO-A-PYRENE
460UJ	INDENO (1,2,3-CD) PYRENE
460UJ	DIBENZO(A,H)ANTHRACENE
460UJ	BENZO(GHI)PERYLENE
28	PERCENT MOISTURE

REMARKS
EXCESSIVE HOLDING TIME

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.

12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20835 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F743 MD NO: G143

RESULTS	UNITS	COMPOUND
400JN	UG/KG	PROPOXYPROPENE

RESULTS	UNITS	COMPOUND
70000J	UG/KG	9 UNIDENTIFIED COMPOUNDS

REMARKS
EXCESSIVE HOLDING TIME

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.

PURGEABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20835 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-01

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00

D. NO.: F743

UG/KG	ANALYTICAL RESULTS
69U	CHLOROMETHANE
69U	BROMOMETHANE
69U	VINYL CHLORIDE
69U	CHLOROETHANE
400UJ	METHYLENE CHLORIDE
69U	ACETONE
35U	CARBON DISULFIDE
35U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
35U	1,1-DICHLOROETHANE
35U	1,2-DICHLOROETHENE (TOTAL)
35U	CHLOROFORM
35U	1,2-DICHLOROETHANE
69U	METHYL ETHYL KETONE
35U	1,1,1-TRICHLOROETHANE
35U	CARBON TETRACHLORIDE
69U	VINYL ACETATE
35U	BROMODICHLOROMETHANE
35U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
35U	CIS-1,3-DICHLOROPROPENE
35U	TRICHLOROETHENE(TRICHLOROETHYLENE)
35U	DIBROMOCHLOROMETHANE
35U	1,1,2-TRICHLOROETHANE
35U	BENZENE
35U	TRANS-1,3-DICHLOROPROPENE
69U	2-CHLOROETHYLVINYL ETHER
35U	BROMOFORM
69U	METHYL ISOBUTYL KETONE
69U	METHYL BUTYL KETONE
35U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
69U	1,1,2,2-TETRACHLOROETHANE
35U	TOLUENE
35U	CHLOROBENZENE
35U	ETHYL BENZENE
35U	STYRENE
35U	TOTAL XYLENES
28	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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20835 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-01
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F743

UG/KG	ANALYTICAL RESULTS
11U	ALPHA-BHC
11U	BETA-BHC
11U	DELTA-BHC
11U	GAMMA-BHC (LINDANE)
11U	HEPTACHLOR
11U	ALDRIN
11U	HEPTACHLOR EPOXIDE
11U	ENDOSULFAN I (ALPHA)
22U	DIELDRIN
22U	4,4'-DDE (P,P'-DDE)
22U	ENDRIN
22U	ENDOSULFAN II (BETA)
22U	4,4'-DDD (P,P'-DDD)
22U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
22U	4,4'-DDT (P,P'-DDT)
110U	METHOXYCHLOR
22U	ENDRIN KETONE
110U	CHLORDANE (TECH. MIXTURE) /1
230U	TOXAPHENE
110U	PCB-1016 (AROCLOR 1016)
110U	PCB-1221 (AROCLOR 1221)
110U	PCB-1232 (AROCLOR 1232)
110U	PCB-1242 (AROCLOR 1242)
110U	PCB-1248 (AROCLOR 1248)
230U	PCB-1254 (AROCLOR 1254)
230U	PCB-1260 (AROCLOR 1260)
28	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
*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.

METALS DATA REPORT 01/22/88

PROJECT NO. 88-001 SAMPLE NO. 20838 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G148

MG/KG	ANALYTICAL RESULTS
4300	ALUMINUM
6.5UJ	ANTIMONY
1JN	ARSENIC
14	BARIUM
0.21U	BERYLLIUM
1U	CADMIUM
230UJ	CALCIUM
23	CHROMIUM
4.5JN	COBALT
6UJ	COPPER
10000	IRON
18J	LEAD
470	MAGNESIUM
91J	MANGANESE
0.10U	MERCURY
1.5UJ	NICKEL
60UJ	POTASSIUM
0.42R	SELENIUM
1U	SILVER
310U	SODIUM
0.42U	THALLIUM
NA	TIN
35	VANADIUM
7UJ	ZINC
96	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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20838 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F748 MD NO: G148

RESULTS	UNITS	PARAMETER
0.52U	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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20838 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SS-01

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NO.: F748

UG/KG	ANALYTICAL RESULTS
350U	PHENOL
350U	BIS(2-CHLOROETHYL) ETHER
350U	2-CHLOROPHENOL
350U	1,3-DICHLOROBENZENE
350U	1,4-DICHLOROBENZENE
350U	BENZYL ALCOHOL
350U	1,2-DICHLOROBENZENE
350U	2-METHYLPHENOL
350U	BIS(2-CHLOROISOPROPYL) ETHER
350U	(3-AND/OR 4-)METHYLPHENOL
350U	N-NITROSODI-N-PROPYLAMINE
350U	HEXACHLOROETHANE
350U	NITROBENZENE
350U	ISOPHORONE
350U	2-NITROPHENOL
350U	2,4-DIMETHYLPHENOL
1700U	BENZOIC ACID
350U	BIS(2-CHLOROETHOXY) METHANE
350U	2,4-DICHLOROPHENOL
350U	1,2,4-TRICHLOROBENZENE
350U	NAPHTHALENE
350U	4-CHLOROANILINE
350U	HEXACHLOROBUTADIENE
350U	4-CHLORO-3-METHYLPHENOL
350U	2-METHYLNAPHTHALENE
350U	HEXACHLOROCYCLOPENTADIENE (HCCP)
350U	2,4,6-TRICHLOROPHENOL
1700U	2,4,5-TRICHLOROPHENOL
350U	2-CHLORONAPHTHALENE
1700U	2-NITROANILINE
350U	DIMETHYL PHTHALATE
350U	ACENAPHTHYLENE
350U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
1700U	3-NITROANILINE
350U	ACENAPHTHENE
1700U	2,4-DINITROPHENOL
1700U	4-NITROPHENOL
350U	DIBENZOFURAN
350U	2,4-DINITROTOLUENE
350U	DIETHYL PHTHALATE
350U	4-CHLOROPHENYL PHENYL ETHER
350U	FLUORENE
1700U	4-NITROANILINE
1700U	2-METHYL-4,6-DINITROPHENOL
350UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
350U	4-BROMOPHENYL PHENYL ETHER
350U	HEXACHLOROBENZENE (HCB)
1700U	PENTACHLOROPHENOL
350U	PHENANTHRENE
350U	ANTHRACENE
350U	DI-N-BUTYLPHTHALATE
350U	FLUORANTHENE
350U	PYRENE
350U	BENZYL BUTYL PHTHALATE
700UR	3,3'-DICHLOROBENZIDINE
350U	BENZO(A)ANTHRACENE
350U	CHRYSENE
350U	BIS(2-ETHYLHEXYL) PHTHALATE
350U	DI-N-OCTYLPHTHALATE
350U	BENZO(B AND/OR K)FLUORANTHENE
350U	BENZO-A-PYRENE
350U	INDENO (1,2,3-CD) PYRENE
350U	DIBENZO(A,H)ANTHRACENE
350U	BENZO(GHI)PERYLENE
6	PERCENT MOISTURE

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. 12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20838 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F748 MD NO: G148

RESULTS	UNITS	COMPOUND
400JN	UG/KG	BICYCLOHEPTENE
90000J	UG/KG	17 UNIDENTIFIED COMPOUNDS
500JN	UG/KG	HEXADECANOIC ACID

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 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20838 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-01 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F748

UG/KG	ANALYTICAL RESULTS
11U	CHLOROMETHANE
11U	BROMOMETHANE
11U	VINYL CHLORIDE
11U	CHLOROETHANE
40UJ	METHYLENE CHLORIDE
50UJ	ACETONE
5U	CARBON DISULFIDE
5U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	1,1-DICHLOROETHANE
5U	1,2-DICHLOROETHENE (TOTAL)
5U	CHLOROFORM
5U	1,2-DICHLOROETHANE
11U	METHYL ETHYL KETONE
5U	1,1,1-TRICHLOROETHANE
5U	CARBON TETRACHLORIDE
11U	VINYL ACETATE
5U	BROMODICHLOROMETHANE
5U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
5U	CIS-1,3-DICHLOROPROPENE
5U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	DIBROMOCHLOROMETHANE
5U	1,1,2-TRICHLOROETHANE
5U	BENZENE
5U	TRANS-1,3-DICHLOROPROPENE
11U	2-CHLOROETHYLVINYL ETHER
5U	BROMOFORM
11U	METHYL ISOBUTYL KETONE
11U	METHYL BUTYL KETONE
5U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
11U	1,1,2,2-TETRACHLOROETHANE
160UJ	TOLUENE
5U	CHLOROBENZENE
5U	ETHYL BENZENE
5U	STYRENE
5U	TOTAL XYLENES
6	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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20838 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SS-01
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F748

UG/KG	ANALYTICAL RESULTS
8.5UR	ALPHA-BHC
8.5UR	BETA-BHC
8.5UR	DELTA-BHC
8.5UR	GAMMA-BHC (LINDANE)
8.5UR	HEPTACHLOR
8.5UR	ALDRIN
8.5UR	HEPTACHLOR EPOXIDE
8.5U	ENDOSULFAN I (ALPHA)
17U	DIELDRIN
17U	4,4'-DDE (P,P'-DDE)
17U	ENDRIN
17U	ENDOSULFAN II (BETA)
17U	4,4'-DDD (P,P'-DDD)
17U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
17U	4,4'-DDT (P,P'-DDT)
85U	METHOXYCHLOR
17U	ENDRIN KETONE
85U	CHLORDANE (TECH. MIXTURE) /1
170U	TOXAPHENE
85U	PCB-1016 (AROCLOR 1016)
85U	PCB-1221 (AROCLOR 1221)
85U	PCB-1232 (AROCLOR 1232)
85U	PCB-1242 (AROCLOR 1242)
85U	PCB-1248 (AROCLOR 1248)
170U	PCB-1254 (AROCLOR 1254)
170U	PCB-1260 (AROCLOR 1260)
6	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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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

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

METALS DATA REPORT 01/22/88

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G136

MG/KG	ANALYTICAL RESULTS
9100	ALUMINUM
8.2UJ	ANTIMONY
2.0JN	ARSENIC
95	BARIUM
0.27U	BERYLLIUM
1.3U	CADMIUM
1800	CALCIUM
17	CHROMIUM
12JN	COBALT
25	COPPER
12000	IRON
110J	LEAD
3600	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
260J	MANGANESE
0.13U	MERCURY
9.3J	NICKEL
690UJ	POTASSIUM
5.3R	SELENIUM
1.3U	SILVER
400U	SODIUM
0.53U	THALLIUM
NA	TIN
31	VANADIUM
50	ZINC
75	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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*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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F751 MD NO: G136

RESULTS	UNITS	PARAMETER
0.66U	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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-CS-02

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F751

UG/KG	ANALYTICAL RESULTS
27000U	PHENOL
27000U	BIS(2-CHLOROETHYL) ETHER
27000U	2-CHLOROPHENOL
27000U	1,3-DICHLOROBENZENE
27000U	1,4-DICHLOROBENZENE
27000U	BENZYL ALCOHOL
27000U	1,2-DICHLOROBENZENE
27000U	2-METHYLPHENOL
27000U	BIS(2-CHLOROISOPROPYL) ETHER
27000U	(3-AND/OR 4-)METHYLPHENOL
27000U	N-NITROSODI-N-PROPYLAMINE
27000U	HEXACHLOROETHANE
27000U	NITROBENZENE
27000U	ISOPHORONE
27000U	2-NITROPHENOL
27000U	2,4-DIMETHYLPHENOL
130000U	BENZOIC ACID
27000U	BIS(2-CHLOROETHOXY) METHANE
27000U	2,4-DICHLOROPHENOL
27000U	1,2,4-TRICHLOROBENZENE
27000U	NAPHTHALENE
27000U	4-CHLOROANILINE
27000U	HEXACHLOROBUTADIENE
27000U	4-CHLORO-3-METHYLPHENOL
27000U	2-METHYLNAPHTHALENE
27000U	HEXACHLOROCYCLOPENTADIENE (HCCP)
27000U	2,4,6-TRICHLOROPHENOL
130000U	2,4,5-TRICHLOROPHENOL
27000U	2-CHLORONAPHTHALENE
130000U	2-NITROANILINE
27000U	DIMETHYL PHTHALATE
27000U	ACENAPHTHYLENE
27000U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
130000U	3-NITROANILINE
27000U	ACENAPHTHENE
130000U	2,4-DINITROPHENOL
130000U	4-NITROPHENOL
27000U	DIBENZOFURAN
27000U	2,4-DINITROTOLUENE
27000U	DIETHYL PHTHALATE
27000U	4-CHLOROPHENYL PHENYL ETHER
27000U	FLUORENE
130000U	4-NITROANILINE
130000U	2-METHYL-4,6-DINITROPHENOL
27000U	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
27000U	4-BROMOPHENYL PHENYL ETHER
27000U	HEXACHLOROBENZENE (HCB)
130000U	PENTACHLOROPHENOL
2600J	PHENANTHRENE
27000U	ANTHRACENE
27000U	DI-N-BUTYLPHTHALATE
27000U	FLUORANTHENE
27000U	PYRENE
27000U	BENZYL BUTYL PHTHALATE
53000UR	3,3'-DICHLOROBENZIDINE
27000U	BENZO(A)ANTHRACENE
27000U	CHRYSENE
27000U	BIS(2-ETHYLHEXYL) PHTHALATE
27000U	DI-N-OCTYLPHTHALATE
27000U	BENZO(B AND/OR K)FLUORANTHENE
27000U	BENZO-A-PYRENE
27000U	INDENO (1,2,3-CD) PYRENE
27000U	DIBENZO(A,H)ANTHRACENE
27000U	BENZO(GHI)PERYLENE
26	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
*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. 12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F751 MD NO: G136

RESULTS	UNITS	COMPOUND
400000J	UG/KG	20 UNIDENTIFIED COMPOUNDS
N	UG/KG	PETROLEUM PRODUCT

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.

12/17/87

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-02 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F751

UG/KG	ANALYTICAL RESULTS
450U	CHLOROMETHANE
450U	BROMOMETHANE
450U	VINYL CHLORIDE
450U	CHLOROETHANE
400UJ	METHYLENE CHLORIDE
500UJ	ACETONE
220U	CARBON DISULFIDE
220U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
220U	1,1-DICHLOROETHANE
220U	1,2-DICHLOROETHENE (TOTAL)
220U	CHLOROFORM
220U	1,2-DICHLOROETHANE
450U	METHYL ETHYL KETONE
220U	1,1,1-TRICHLOROETHANE
220U	CARBON TETRACHLORIDE
450U	VINYL ACETATE
220U	BROMODICHLOROMETHANE
220U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
220U	CIS-1,3-DICHLOROPROPENE
220U	TRICHLOROETHENE(TRICHLOROETHYLENE)
220U	DIBROMOCHLOROMETHANE
220U	1,1,2-TRICHLOROETHANE
220U	BENZENE
220U	TRANS-1,3-DICHLOROPROPENE
450U	2-CHLOROETHYLVINYL ETHER
220U	BROMOFORM
450U	METHYL ISOBUTYL KETONE
450U	METHYL BUTYL KETONE
220U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
450U	1,1,2,2-TETRACHLOROETHANE
3000UJ	TOLUENE
220U	CHLOROBENZENE
220U	ETHYL BENZENE
81J	STYRENE
220U	TOTAL XYLENES
26	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.

12/17/87

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F751 MD NO: G136

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
900J	UG/KG	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
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20841 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-CS-02
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F751

UG/KG	ANALYTICAL RESULTS
54U	ALPHA-BHC
54U	BETA-BHC
54U	DELTA-BHC
54U	GAMMA-BHC (LINDANE)
54U	HEPTACHLOR
54U	ALDRIN
54U	HEPTACHLOR EPOXIDE
54U	ENDOSULFAN I (ALPHA)
110U	DIELDRIN
110U	4,4'-DDE (P,P'-DDE)
110U	ENDRIN
110U	ENDOSULFAN II (BETA)
110U	4,4'-DDD (P,P'-DDD)
110U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
110U	4,4'-DDT (P,P'-DDT)
540U	METHOXYCHLOR
110U	ENDRIN KETONE
540U	CHLORDANE (TECH. MIXTURE) /1
1100U	TOXAPHENE
540U	PCB-1016 (AROCLOR 1016)
540U	PCB-1221 (AROCLOR 1221)
540U	PCB-1232 (AROCLOR 1232)
540U	PCB-1242 (AROCLOR 1242)
540U	PCB-1248 (AROCLOR 1248)
1100U	PCB-1254 (AROCLOR 1254)
1100U	PCB-1260 (AROCLOR 1260)
26	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
*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.

01/22/88

METALS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20836 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G145

MG/KG	ANALYTICAL RESULTS
1200	ALUMINUM
8.4UJ	ANTIMONY
0.8UJ	ARSENIC
14	BARIUM
0.27U	BERYLLIUM
1.4U	CADMIUM
470UJ	CALCIUM
4.6	CHROMIUM
2.3JN	COBALT
9UJ	COPPER
2000	IRON
6.4J	LEAD
290	MAGNESIUM
92J	MANGANESE
0.14U	MERCURY
1.9J	NICKEL
70UJ	POTASSIUM
0.54R	SELENIUM
1.4U	SILVER
410U	SODIUM
0.54U	THALLIUM
NA	TIN
4.9	VANADIUM
10UJ	ZINC
74	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
*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. 01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20836 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F745 MD NO: G145

RESULTS	UNITS	PARAMETER
0.68U	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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20836 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-02

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NO.: F745

UG/KG	ANALYTICAL RESULTS
450U	PHENOL
450U	BIS(2-CHLOROETHYL) ETHER
450U	2-CHLOROPHENOL
450U	1,3-DICHLOROBENZENE
450U	1,4-DICHLOROBENZENE
450U	BENZYL ALCOHOL
450U	1,2-DICHLOROBENZENE
450U	2-METHYLPHENOL
450U	BIS(2-CHLOROISOPROPYL) ETHER
450U	(3-AND/OR 4-)METHYLPHENOL
450U	N-NITROSODI-N-PROPYLAMINE
450U	HEXACHLOROETHANE
450U	NITROBENZENE
450U	ISOPHORONE
450U	2-NITROPHENOL
450U	2,4-DIMETHYLPHENOL
2200U	BENZOIC ACID
450U	BIS(2-CHLOROETHOXY) METHANE
450U	2,4-DICHLOROPHENOL
450U	1,2,4-TRICHLOROBENZENE
450U	NAPHTHALENE
450U	4-CHLOROANILINE
450U	HEXACHLOROBUTADIENE
450U	4-CHLORO-3-METHYLPHENOL
450U	2-METHYLNAPHTHALENE
450U	HEXACHLOROCYCLOPENTADIENE (HCCP)
450U	2,4,6-TRICHLOROPHENOL
2200U	2,4,5-TRICHLOROPHENOL
450U	2-CHLORONAPHTHALENE
2200U	2-NITROANILINE
450U	DIMETHYL PHTHALATE
450U	ACENAPHTHYLENE
450U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
2200U	3-NITROANILINE
450U	ACENAPHTHENE
2200U	2,4-DINITROPHENOL
2200U	4-NITROPHENOL
450U	DIBENZOFURAN
450U	2,4-DINITROTOLUENE
450U	DIETHYL PHTHALATE
450U	4-CHLOROPHENYL PHENYL ETHER
450U	FLUORENE
2200U	4-NITROANILINE
2200U	2-METHYL-4,6-DINITROPHENOL
500UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
450U	4-BROMOPHENYL PHENYL ETHER
450U	HEXACHLOROBENZENE (HCB)
2200U	PENTACHLOROPHENOL
450U	PHENANTHRENE
450U	ANTHRACENE
450U	DI-N-BUTYLPHTHALATE
450U	FLUORANTHENE
450U	PYRENE
450U	BENZYL BUTYL PHTHALATE
900UR	3,3'-DICHLOROBENZIDINE
450U	BENZO(A)ANTHRACENE
450U	CHRYSENE
450U	BIS(2-ETHYLHEXYL) PHTHALATE
450U	DI-N-OCTYLPHTHALATE
450U	BENZO(B AND/OR K)FLUORANTHENE
450U	BENZO-A-PYRENE
450U	INDENO (1,2,3-CD) PYRENE
450U	DIBENZO(A,H)ANTHRACENE
450U	BENZO(GHI)PERYLENE
26	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
*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.

12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20836 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F745 MD NO: G145

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
20000J	UG/KG	8 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
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM
EPA-REGION IV ESD, ATHENS, GA.

12/17/87

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20836 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-02 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F745

UG/KG	ANALYTICAL RESULTS
14U	CHLOROMETHANE
14U	BROMOMETHANE
14U	VINYL CHLORIDE
14U	CHLOROETHANE
40UJ	METHYLENE CHLORIDE
30UJ	ACETONE
7U	CARBON DISULFIDE
7U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
7U	1,1-DICHLOROETHANE
7U	1,2-DICHLOROETHENE (TOTAL)
7U	CHLOROFORM
7U	1,2-DICHLOROETHANE
14U	METHYL ETHYL KETONE
7U	1,1,1-TRICHLOROETHANE
7U	CARBON TETRACHLORIDE
14U	VINYL ACETATE
7U	BROMODICHLOROMETHANE
7U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
7U	CIS-1,3-DICHLOROPROPENE
7U	TRICHLOROETHENE(TRICHLOROETHYLENE)
7U	DIBROMOCHLOROMETHANE
7U	1,1,2-TRICHLOROETHANE
7U	BENZENE
7U	TRANS-1,3-DICHLOROPROPENE
140	2-CHLOROETHYLVINYL ETHER
7U	BROMOFORM
14U	METHYL ISOBUTYL KETONE
14U	METHYL BUTYL KETONE
7U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
14U	1,1,2,2-TETRACHLOROETHANE
7U	TOLUENE
7U	CHLOROBENZENE
7U	ETHYL BENZENE
7U	STYRENE
7U	TOTAL XYLENES
26	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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20836 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-02
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F745

UG/KG	ANALYTICAL RESULTS
11U	ALPHA-BHC
11U	BETA-BHC
11U	DELTA-BHC
11U	GAMMA-BHC (LINDANE)
11U	HEPTACHLOR
11U	ALDRIN
11U	HEPTACHLOR EPOXIDE
11U	ENDOSULFAN I (ALPHA)
22U	DIELDRIN
22U	4,4'-DDE (P,P'-DDE)
22U	ENDRIN
22U	ENDOSULFAN II (BETA)
22U	4,4'-DDD (P,P'-DDD)
22U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
22U	4,4'-DDT (P,P'-DDT)
110U	METHOXYCHLOR
22U	ENDRIN KETONE
110U	CHLORDANE (TECH. MIXTURE) /1
220U	TOXAPHENE
110U	PCB-1016 (AROCLOR 1016)
110U	PCB-1221 (AROCLOR 1221)
110U	PCB-1232 (AROCLOR 1232)
110U	PCB-1242 (AROCLOR 1242)
110U	PCB-1248 (AROCLOR 1248)
220U	PCB-1254 (AROCLOR 1254)
220U	PCB-1260 (AROCLOR 1260)
27	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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*C-CONFIRMED BY GCMS 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.

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

METALS DATA REPORT 01/22/88

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-CS-03
CASE NUMBER: 8318 SAS NUMBER:
PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
MD NUMBER: G149

MG/KG	ANALYTICAL RESULTS
11000	ALUMINUM
6.8UJ	ANTIMONY
11JN	ARSENIC
160	BARIUM
0.22U	BERYLLIUM
1.1U	CADMIUM
5600	CALCIUM
34	CHROMIUM
9.9JN	COBALT
56	COPPER
16000	IRON
11000J	LEAD
9000	MAGNESIUM

MG/KG	ANALYTICAL RESULTS
240J	MANGANESE
0.11U	MERCURY
23J	NICKEL
2600J	POTASSIUM
4.4UR	SELENIUM
1.1U	SILVER
330U	SODIUM
0.44U	THALLIUM
NA	TIN
29	VANADIUM
110	ZINC
92	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
*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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-03 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F749 MD NO: G149

RESULTS	UNITS	PARAMETER
0.54U	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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-CS-03

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00

D. NO.: F749

UG/KG	ANALYTICAL RESULTS
21000U	PHENOL
21000U	BIS(2-CHLOROETHYL) ETHER
21000U	2-CHLOROPHENOL
21000U	1,3-DICHLOROBENZENE
21000U	1,4-DICHLOROBENZENE
21000U	BENZYL ALCOHOL
21000U	1,2-DICHLOROBENZENE
21000U	2-METHYLPHENOL
21000U	BIS(2-CHLOROISOPROPYL) ETHER
21000U	(3-AND/OR 4-)METHYLPHENOL
21000U	N-NITROSODI-N-PROPYLAMINE
21000U	HEXACHLOROETHANE
21000U	NITROBENZENE
21000U	ISOPHORONE
21000U	2-NITROPHENOL
21000U	2,4-DIMETHYLPHENOL
100000U	BENZOIC ACID
21000U	BIS(2-CHLOROETHOXY) METHANE
21000U	2,4-DICHLOROPHENOL
21000U	1,2,4-TRICHLOROBENZENE
21000U	NAPHTHALENE
21000U	4-CHLOROANILINE
21000U	HEXACHLOROBUTADIENE
21000U	4-CHLORO-3-METHYLPHENOL
21000U	2-METHYLNAPHTHALENE
21000U	HEXACHLOROCYCLOPENTADIENE (HCCP)
21000U	2,4,6-TRICHLOROPHENOL
100000U	2,4,5-TRICHLOROPHENOL
21000U	2-CHLORONAPHTHALENE
100000U	2-NITROANILINE
21000U	DIMETHYL PHTHALATE
21000U	ACENAPHTHYLENE
21000U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
100000U	3-NITROANILINE
21000U	ACENAPHTHENE
100000U	2,4-DINITROPHENOL
100000U	4-NITROPHENOL
21000U	DIBENZOFURAN
21000U	2,4-DINITROTOLUENE
21000U	DIETHYL PHTHALATE
21000U	4-CHLOROPHENYL PHENYL ETHER
21000U	FLUORENE
100000U	4-NITROANILINE
100000U	2-METHYL-4,6-DINITROPHENOL
21000UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
21000U	4-BROMOPHENYL PHENYL ETHER
21000U	HEXACHLOROBENZENE (HCB)
100000U	PENTACHLOROPHENOL
21000U	PHENANTHRENE
21000U	ANTHRACENE
21000U	DI-N-BUTYLPHTHALATE
21000U	FLUORANTHENE
21000U	PYRENE
21000U	BENZYL BUTYL PHTHALATE
43000UR	3,3'-DICHLOROBENZIDINE
21000U	BENZO(A)ANTHRACENE
21000U	CHRYSENE
21000U	BIS(2-ETHYLHEXYL) PHTHALATE
21000U	DI-N-OCTYLPHTHALATE
21000U	BENZO(B AND/OR K)FLUORANTHENE
21000U	BENZO-A-PYRENE
21000U	INDENO (1,2,3-CD) PYRENE
21000U	DIBENZO(A,H)ANTHRACENE
21000U	BENZO(GHI)PERYLENE
7	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
*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. 12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-03 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F749 MD NO: G149

RESULTS	UNITS	COMPOUND
10000JN	UG/KG	CYCLOHEXADIENEDIONE
N	UG/KG	PETROLEUM PRODUCT

RESULTS	UNITS	COMPOUND
500000J	UG/KG	19 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
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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.

PURGEABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-03 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F749

UG/KG	ANALYTICAL RESULTS
54U	CHLOROMETHANE
54U	BROMOMETHANE
54U	VINYL CHLORIDE
54U	CHLOROETHANE
200UJ	METHYLENE CHLORIDE
300UJ	ACETONE
27U	CARBON DISULFIDE
27U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
27U	1,1-DICHLOROETHANE
27U	1,2-DICHLOROETHENE (TOTAL)
27U	CHLOROFORM
27U	1,2-DICHLOROETHANE
200UJ	METHYL ETHYL KETONE
27U	1,1,1-TRICHLOROETHANE
27U	CARBON TETRACHLORIDE
54U	VINYL ACETATE
27U	BROMODICHLOROMETHANE
27U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
27U	CIS-1,3-DICHLOROPROPENE
27U	TRICHLOROETHENE(TRICHLOROETHYLENE)
27U	DIBROMOCHLOROMETHANE
27U	1,1,2-TRICHLOROETHANE
27U	BENZENE
27U	TRANS-1,3-DICHLOROPROPENE
54U	2-CHLOROETHYLVINYL ETHER
27U	BROMOFORM
54U	METHYL ISOBUTYL KETONE
54U	METHYL BUTYL KETONE
27U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
54U	1,1,2,2-TETRACHLOROETHANE
900UJ	TOLUENE
27U	CHLOROBENZENE
27U	ETHYL BENZENE
27U	STYRENE
100	TOTAL XYLENES
7	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. 12/17/87

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-CS-03 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F749 MD NO: G149

RESULTS	UNITS	COMPOUND
60JN	UG/KG	ETHYLDECANOL
300JN	UG/KG	TRIMETHYLBENZENE (3 ISOMERS)
60JN	UG/KG	DIMETHYLNONANE
60JN	UG/KG	METHYLDECANE
400JN	UG/KG	UNDECANE
200J	UG/KG	4 UNIDENTIFIED COMPOUNDS

RESULTS	UNITS	COMPOUND
100JN	UG/KG	ETHYLMETHYLBENZENE (2 ISOMERS)
200JN	UG/KG	DECANE
40JN	UG/KG	CYCLOHEXYLDECANE
30JN	UG/KG	METHYLPROPYLBENZENE
60JN	UG/KG	ETHYLDIMETHYLBENZENE

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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*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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20839 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-CS-03
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F749

UG/KG	ANALYTICAL RESULTS
130U	ALPHA-BHC
130U	BETA-BHC
130U	DELTA-BHC
130U	GAMMA-BHC (LINDANE)
130U	HEPTACHLOR
130U	ALDRIN
130U	HEPTACHLOR EPOXIDE
130U	ENDOSULFAN I (ALPHA)
260U	DIELDRIN
260U	4,4'-DDE (P,P'-DDE)
260U	ENDRIN
260U	ENDOSULFAN II (BETA)
260U	4,4'-DDD (P,P'-DDD)
260U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
260U	4,4'-DDT (P,P'-DDT)
1300U	METHOXYCHLOR
260U	ENDRIN KETONE
1300U	CHLORDANE (TECH. MIXTURE) /1
2600U	TOXAPHENE
1300U	PCB-1016 (AROCLOR 1016)
1300U	PCB-1221 (AROCLOR 1221)
1300U	PCB-1232 (AROCLOR 1232)
1300U	PCB-1242 (AROCLOR 1242)
1300U	PCB-1248 (AROCLOR 1248)
2600U	PCB-1254 (AROCLOR 1254)
2600U	PCB-1260 (AROCLOR 1260)
7	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
*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.

01/22/88

METALS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM
PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO
CITY: GREENSBORO ST: NC
STATION ID: SP-SD-03
COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER:
MD NUMBER: G146

MG/KG	ANALYTICAL RESULTS
16000	ALUMINUM
9.1UJ	ANTIMONY
9.7JN	ARSENIC
100	BARIUM
0.29U	BERYLLIUM
1.5U	CADMIUM
3700	CALCIUM
140	CHROMIUM
17JN	COBALT
32	COPPER
19000	IRON
48J	LEAD
9200	MAGNESIUM
330J	MANGANESE
0.15U	MERCURY
60.0J	NICKEL
1100UJ	POTASSIUM
5.9UR	SELENIUM
1.5U	SILVER
440U	SODIUM
0.59U	THALLIUM
NA	TIN
39	VANADIUM
88	ZINC
68	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
*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. 01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-03 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F746 MD NO: G146

RESULTS	UNITS	PARAMETER
0.74U	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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-03

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NO.: F746

UG/KG	ANALYTICAL RESULTS
45000U	PHENOL
45000U	BIS(2-CHLOROETHYL) ETHER
45000U	2-CHLOROPHENOL
45000U	1,3-DICHLOROBENZENE
45000U	1,4-DICHLOROBENZENE
45000U	BENZYL ALCOHOL
45000U	1,2-DICHLOROBENZENE
45000U	2-METHYLPHENOL
45000U	BIS(2-CHLOROISOPROPYL) ETHER
45000U	(3-AND/OR 4-)METHYLPHENOL
45000U	N-NITROSODI-N-PROPYLAMINE
45000U	HEXACHLOROETHANE
45000U	NITROBENZENE
45000U	ISOPHORONE
45000U	2-NITROPHENOL
45000U	2,4-DIMETHYLPHENOL
220000U	BENZOIC ACID
45000U	BIS(2-CHLOROETHOXY) METHANE
45000U	2,4-DICHLOROPHENOL
45000U	1,2,4-TRICHLOROBENZENE
45000U	NAPHTHALENE
45000U	4-CHLOROANILINE
45000U	HEXACHLOROBUTADIENE
45000U	4-CHLORO-3-METHYLPHENOL
45000U	2-METHYLNAPHTHALENE
45000U	HEXACHLOROCYCLOPENTADIENE (HCCP)
45000U	2,4,6-TRICHLOROPHENOL
220000U	2,4,5-TRICHLOROPHENOL
45000U	2-CHLORONAPHTHALENE
220000U	2-NITROANILINE
45000U	DIMETHYL PHTHALATE
45000U	ACENAPHTHYLENE
45000U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
220000U	3-NITROANILINE
45000U	ACENAPHTHENE
220000U	2,4-DINITROPHENOL
220000U	4-NITROPHENOL
45000U	DIBENZOFURAN
45000U	2,4-DINITROTOLUENE
45000U	DIETHYL PHTHALATE
45000U	4-CHLOROPHENYL PHENYL ETHER
45000U	FLUORENE
220000U	4-NITROANILINE
220000U	2-METHYL-4,6-DINITROPHENOL
70000UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
45000U	4-BROMOPHENYL PHENYL ETHER
45000U	HEXACHLOROBENZENE (HCB)
220000U	PENTACHLOROPHENOL
45000U	PHENANTHRENE
45000U	ANTHRACENE
45000U	DI-N-BUTYLPHTHALATE
45000U	FLUORANTHENE
45000U	PYRENE
45000U	BENZYL BUTYL PHTHALATE
91000UR	3,3'-DICHLOROBENZIDINE
45000U	BENZO(A)ANTHRACENE
45000U	CHRYSENE
45000U	BIS(2-ETHYLHEXYL) PHTHALATE
45000U	DI-N-OCTYLPHTHALATE
45000U	BENZO(B AND/OR K)FLUORANTHENE
45000U	BENZO-A-PYRENE
45000U	INDENO (1,2,3-CD) PYRENE
45000U	DIBENZO(A,H)ANTHRACENE
45000U	BENZO(GHI)PERYLENE
56	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
*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.

12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-03 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F746 MD NO: G146

RESULTS	UNITS	COMPOUND
500000J	UG/KG	19 UNIDENTIFIED COMPOUNDS
N	UG/KG	PETROLEUM PRODUCT

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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*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.

12/17/87

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-03

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F746

UG/KG	ANALYTICAL RESULTS
110U	CHLOROMETHANE
110U	BROMOMETHANE
110U	VINYL CHLORIDE
110U	CHLOROETHANE
300UJ	METHYLENE CHLORIDE
900UJ	ACETONE
57U	CARBON DISULFIDE
57U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
57U	1,1-DICHLOROETHANE
57U	1,2-DICHLOROETHENE (TOTAL)
57U	CHLOROFORM
57U	1,2-DICHLOROETHANE
300UJ	METHYL ETHYL KETONE
57U	1,1,1-TRICHLOROETHANE
57U	CARBON TETRACHLORIDE
110U	VINYL ACETATE
57U	BROMODICHLOROMETHANE
57U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
57U	CIS-1,3-DICHLOROPROPENE
57U	TRICHLOROETHENE(TRICHLOROETHYLENE)
57U	DIBROMOCHLOROMETHANE
57U	1,1,2-TRICHLOROETHANE
57U	BENZENE
57U	TRANS-1,3-DICHLOROPROPENE
110U	2-CHLOROETHYLVINYL ETHER
57U	BROMOFORM
110U	METHYL ISOBUTYL KETONE
110U	METHYL BUTYL KETONE
57U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
110U	1,1,2,2-TETRACHLOROETHANE
760UJ	TOLUENE
57U	CHLOROBENZENE
57U	ETHYL BENZENE
57U	STYRENE
42J	TOTAL XYLENES
56	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. 12/17/87

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SD-03 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F746 MD NO: G146

RESULTS	UNITS	COMPOUND
100JN	UG/KG	NONANE
100JN	UG/KG	BUTYLOCTANOL
100JN	UG/KG	DIMETHYLNONANE
600J	UG/KG	7 UNIDENTIFIED COMPOUNDS
90JN	UG/KG	DIMETHYLOCTANOL
400JN	UG/KG	DECANE
300JN	UG/KG	UNDECANE

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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20837 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SD-03
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F746

UG/KG	ANALYTICAL RESULTS
19UR	ALPHA-BHC
19UR	BETA-BHC
19UR	DELTA-BHC
19UR	GAMMA-BHC (LINDANE)
19UR	HEPTACHLOR
19UR	ALDRIN
19UR	HEPTACHLOR EPOXIDE
19U	ENDOSULFAN I (ALPHA)
36U	DIELDRIN
36U	4,4'-DDE (P,P'-DDE)
36U	ENDRIN
36U	ENDOSULFAN II (BETA)
36U	4,4'-DDD (P,P'-DDD)
36U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
36U	4,4'-DDT (P,P'-DDT)
190U	METHOXYCHLOR
36U	ENDRIN KETONE
190U	CHLORDANE (TECH. MIXTURE) /1
370U	TOXAPHENE
190U	PCB-1016 (AROCLOR 1016)
190U	PCB-1221 (AROCLOR 1221)
190U	PCB-1232 (AROCLOR 1232)
190U	PCB-1242 (AROCLOR 1242)
190U	PCB-1248 (AROCLOR 1248)
370U	PCB-1254 (AROCLOR 1254)
370U	PCB-1260 (AROCLOR 1260)
56	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
*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.

01/22/88

METALS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SS-04
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
MD NUMBER: G150

MG/KG	ANALYTICAL RESULTS
6700	ALUMINUM
7.5UJ	ANTIMONY
4.2JN	ARSENIC
840	BARIUM
0.29	BERYLLIUM
1.8	CADMIUM
3300	CALCIUM
23	CHROMIUM
5.3JN	COBALT
59	COPPER
7200	IRON
8000J	LEAD
2300	MAGNESIUM
99J	MANGANESE
0.12U	MERCURY
13J	NICKEL
350UJ	POTASSIUM
4.8R	SELENIUM
1.2U	SILVER
360U	SODIUM
0.48U	THALLIUM
NA	TIN
17	VANADIUM
850	ZINC
83	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
*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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-04 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F750 MD NO: G150

RESULTS	UNITS	PARAMETER
0.60U	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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*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.

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SS-04

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NO.: F750

UG/KG	ANALYTICAL RESULTS
6200J	PHENOL
24000U	BIS(2-CHLOROETHYL) ETHER
24000U	2-CHLOROPHENOL
24000U	1,3-DICHLOROBENZENE
24000U	1,4-DICHLOROBENZENE
24000U	BENZYL ALCOHOL
2700J	1,2-DICHLOROBENZENE
24000U	2-METHYLPHENOL
24000U	BIS(2-CHLOROISOPROPYL) ETHER
24000U	(3-AND/OR 4-)METHYLPHENOL
24000U	N-NITROSODI-N-PROPYLAMINE
24000U	HEXACHLOROETHANE
24000U	NITROBENZENE
24000U	ISOPHORONE
24000U	2-NITROPHENOL
24000U	2,4-DIMETHYLPHENOL
120000U	BENZOIC ACID
24000U	BIS(2-CHLOROETHOXY) METHANE
24000U	2,4-DICHLOROPHENOL
24000U	1,2,4-TRICHLOROBENZENE
2900J	NAPHTHALENE
24000U	4-CHLOROANILINE
24000U	HEXACHLOROBUTADIENE
24000U	4-CHLORO-3-METHYLPHENOL
2600J	2-METHYLNAPHTHALENE
24000U	HEXACHLOROCYCLOPENTADIENE (HCCP)
24000U	2,4,6-TRICHLOROPHENOL
120000U	2,4,5-TRICHLOROPHENOL
24000U	2-CHLORONAPHTHALENE
120000U	2-NITROANILINE
24000U	DIMETHYL PHTHALATE
24000U	ACENAPHTHYLENE
24000U	2,6-DINITROTOLUENE

UG/KG	ANALYTICAL RESULTS
120000U	3-NITROANILINE
24000U	ACENAPHTHENE
120000U	2,4-DINITROPHENOL
120000U	4-NITROPHENOL
24000U	DIBENZOFURAN
24000U	2,4-DINITROTOLUENE
24000U	DIETHYL PHTHALATE
24000U	4-CHLOROPHENYL PHENYL ETHER
24000U	FLUORENE
120000U	4-NITROANILINE
120000U	2-METHYL-4,6-DINITROPHENOL
24000UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
24000U	4-BROMOPHENYL PHENYL ETHER
24000U	HEXACHLOROBENZENE (HCB)
120000U	PENTACHLOROPHENOL
24000U	PHENANTHRENE
24000U	ANTHRACENE
24000U	DI-N-BUTYLPHTHALATE
24000U	FLUORANTHENE
24000U	PYRENE
24000U	BENZYL BUTYL PHTHALATE
48000UR	3,3'-DICHLOROBENZIDINE
24000U	BENZO(A)ANTHRACENE
24000U	CHRYSENE
24000U	BIS(2-ETHYLHEXYL) PHTHALATE
24000U	DI-N-OCTYLPHTHALATE
24000U	BENZO(B AND/OR K)FLUORANTHENE
24000U	BENZO-A-PYRENE
24000U	INDENO (1,2,3-CD) PYRENE
24000U	DIBENZO(A,H)ANTHRACENE
24000U	BENZO(GHI)PERYLENE
18	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.

12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-04 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F750 MD NO: G150

RESULTS	UNITS	COMPOUND
600J	UG/KG	20 UNIDENTIFIED COMPOUNDS

RESULTS	UNITS	COMPOUND
N	UG/KG	PETROLEUM PRODUCT

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.

12/17/87

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SS-04

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00

D. NO.: F750

UG/KG	ANALYTICAL RESULTS
12000U	CHLOROMETHANE
12000U	BROMOMETHANE
12000U	VINYL CHLORIDE
12000U	CHLOROETHANE
20000UJ	METHYLENE CHLORIDE
20000UJ	ACETONE
6100U	CARBON DISULFIDE
6100U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
6100U	1,1-DICHLOROETHANE
6100U	1,2-DICHLOROETHENE (TOTAL)
6100U	CHLOROFORM
6100U	1,2-DICHLOROETHANE
12000U	METHYL ETHYL KETONE
6100U	1,1,1-TRICHLOROETHANE
6100U	CARBON TETRACHLORIDE
12000U	VINYL ACETATE
6100U	BROMODICHLOROMETHANE
6100U	1,2-DICHLOROPROPANE

UG/KG	ANALYTICAL RESULTS
6100U	CIS-1,3-DICHLOROPROPENE
2700J	TRICHLOROETHENE(TRICHLOROETHYLENE)
6100U	DIBROMOCHLOROMETHANE
6100U	1,1,2-TRICHLOROETHANE
6100U	BENZENE
6100U	TRANS-1,3-DICHLOROPROPENE
12000U	2-CHLOROETHYLVINYL ETHER
6100U	BROMOFORM
12000U	METHYL ISOBUTYL KETONE
12000U	METHYL BUTYL KETONE
6100U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
12000U	1,1,2,2-TETRACHLOROETHANE
61000UJ	TOLUENE
6100U	CHLOROBENZENE
6100U	ETHYL BENZENE
6100U	STYRENE
3900J	TOTAL XYLENES
18	PERCENT MOISTURE

REMARKS

REMARKS

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

12/17/87

MISCELLANEOUS PURGEABLE ORGANICS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SS-04 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F750 MD NO: G150

RESULTS	UNITS	COMPOUND
10000JN	UG/KG	NONANE
9000JN	UG/KG	ETHYLMETHYLBENZENE
11000JN	UG/KG	DIMETHYLETHYLBENZENE
20000J	UG/KG	2 UNIDENTIFIED COMPOUNDS

RESULTS	UNITS	COMPOUND
10000JN	UG/KG	ETHYLDECANOL
20000JN	UG/KG	TRIMETHYLBENZENE (2 ISOMERS)
11000JN	UG/KG	UNDECANE

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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20840 SAMPLE TYPE: SEDIM
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SS-04
CASE NUMBER: 8318 SAS NUMBER:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NUMBER: F750

UG/KG	ANALYTICAL RESULTS
150U	ALPHA-BHC
150U	BETA-BHC
150U	DELTA-BHC
150U	GAMMA-BHC (LINDANE)
150U	HEPTACHLOR
150U	ALDRIN
150U	HEPTACHLOR EPOXIDE
150U	ENDOSULFAN I (ALPHA)
300U	DIELDRIN
300U	4,4'-DDE (P,P'-DDE)
300U	ENDRIN
300U	ENDOSULFAN II (BETA)
300U	4,4'-DDD (P,P'-DDD)
300U	ENDOSULFAN SULFATE

UG/KG	ANALYTICAL RESULTS
300U	4,4'-DDT (P,P'-DDT)
1500U	METHOXYCHLOR
300U	ENDRIN KETONE
1500U	CHLORDANE (TECH. MIXTURE) /1
3000U	TOXAPHENE
1500U	PCB-1016 (AROCLOR 1016)
1500U	PCB-1221 (AROCLOR 1221)
1500U	PCB-1232 (AROCLOR 1232)
1500U	PCB-1242 (AROCLOR 1242)
1500U	PCB-1248 (AROCLOR 1248)
3000U	PCB-1254 (AROCLOR 1254)
3000U	PCB-1260 (AROCLOR 1260)
18	PERCENT MOISTURE

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.

01/22/88

METALS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20832 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G142

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
2000	ALUMINUM	86	MANGANESE
31U	ANTIMONY	0.2U	MERCURY
4U	ARSENIC	7U	NICKEL
35	BARIUM	3500	POTASSIUM
1U	BERYLLIUM	2R	SELENIUM
5U	CADMIUM	5U	SILVER
13000	CALCIUM	7400	SODIUM
5U	CHROMIUM	2U	THALLIUM
6U	COBALT	NA	TIN
9U	COPPER	9	VANADIUM
2500	IRON	20UJ	ZINC
7UJ	LEAD		
4000	MAGNESIUM		

REMARKS
HOLDING TIME EXCEEDED-CN

REMARKS

FOOTNOTES
*A-AVERAGE VALUE *NA-NOT ANALYZED *NAI-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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20832 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F742 MD NO: G142

RESULTS	UNITS	PARAMETER
0.01UJ	MG/L	CYANIDE

REMARKS
HOLDING TIME EXCEEDED-CN

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.

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

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20832 SAMPLE TYPE: SURFACEWA
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-SW-01

CASE NO.: 8318 SAS NO.:

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00
D. NO.: F742

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	BENZYL ALCOHOL
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	BIS(2-CHLOROISOPROPYL) ETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
50U	BENZOIC ACID
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
20UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
20UR	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10U	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

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.

12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20832 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F742 MD NO: G142

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
300J	UG/L	6 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.

PURGEABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20832 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-01 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F742

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20UJ	METHYLENE CHLORIDE
20UJ	ACETONE
5U	CARBON DISULFIDE
5U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	1,1-DICHLOROETHANE
5U	1,2-DICHLOROETHENE (TOTAL)
5U	CHLOROFORM
5U	1,2-DICHLOROETHANE
20UJ	METHYL ETHYL KETONE
5U	1,1,1-TRICHLOROETHANE
5U	CARBON TETRACHLORIDE
10U	VINYL ACETATE
5U	BROMODICHLOROMETHANE
5U	1,2-DICHLOROPROPANE

UG/L	ANALYTICAL RESULTS
5U	CIS-1,3-DICHLOROPROPENE
5U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	DIBROMOCHLOROMETHANE
5U	1,1,2-TRICHLOROETHANE
5U	BENZENE
5U	TRANS-1,3-DICHLOROPROPENE
10U	2-CHLOROETHYLVINYL ETHER
5U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
5U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10UJ	TOLUENE
5U	CHLOROBENZENE
5U	ETHYL BENZENE
5U	STYRENE
5U	TOTAL XYLENES

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.

12/17/87

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20832 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-01 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: D. NUMBER: F742

UG/L	ANALYTICAL RESULTS
0.05UR	ALPHA-BHC
0.05UR	BETA-BHC
0.05UR	DELTA-BHC
0.05UR	GAMMA-BHC (LINDANE)
0.05UR	HEPTACHLOR
0.05UR	ALDRIN
0.05UR	HEPTACHLOR EPOXIDE
0.05UJ	ENDOSULFAN I (ALPHA)
0.1UJ	DIELDRIN
0.1UJ	4,4'-DDE (P,P'-DDE)
0.1UJ	ENDRIN
0.1UJ	ENDOSULFAN II (BETA)
0.1UJ	4,4'-DDD (P,P'-DDD)
0.1UJ	ENDOSULFAN SULFATE

UG/L	ANALYTICAL RESULTS
0.1UJ	4,4'-DDT (P,P'-DDT)
0.5UJ	METHOXYCHLOR
0.1UJ	ENDRIN KETONE
0.5UJ	CHLORDANE (TECH. MIXTURE) /1
1.0UJ	TOXAPHENE
0.5UJ	PCB-1016 (AROCLOR 1016)
0.5UJ	PCB-1221 (AROCLOR 1221)
0.5UJ	PCB-1232 (AROCLOR 1232)
0.5UJ	PCB-1242 (AROCLOR 1242)
0.5UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

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

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

METALS DATA REPORT 01/22/88

PROJECT NO. 88-001 SAMPLE NO. 20833 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G144

UG/L	ANALYTICAL RESULTS
1700	ALUMINUM
31U	ANTIMONY
4U	ARSENIC
34	BARIUM
1U	BERYLLIUM
5U	CADMIUM
13000	CALCIUM
5U	CHROMIUM
6U	COBALT
10	COPPER
2200	IRON
10UJ	LEAD
4100	MAGNESIUM

UG/L	ANALYTICAL RESULTS
81	MANGANESE
0.2U	MERCURY
7U	NICKEL
3500	POTASSIUM
2UR	SELENIUM
5U	SILVER
7500	SODIUM
2U	THALLIUM
NA	TIN
9	VANADIUM
18UJ	ZINC

REMARKS
HOLDING TIME EXCEEDED-CN

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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20833 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F744 MD NO: G144

RESULTS	UNITS	PARAMETER
0.03J	MG/L	CYANIDE

REMARKS
HOLDING TIME EXCEEDED-CN

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.

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

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20833 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-02 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F744

UG/L	ANALYTICAL RESULTS
10UJ	PHENOL
10UJ	BIS(2-CHLOROETHYL) ETHER
10UJ	2-CHLOROPHENOL
10UJ	1,3-DICHLOROBENZENE
10UJ	1,4-DICHLOROBENZENE
10UJ	BENZYL ALCOHOL
10UJ	1,2-DICHLOROBENZENE
10UJ	2-METHYLPHENOL
10UJ	BIS(2-CHLOROISOPROPYL) ETHER
10UJ	(3-AND/OR 4-)METHYLPHENOL
10UJ	N-NITROSODI-N-PROPYLAMINE
10UJ	HEXACHLOROETHANE
10UJ	NITROBENZENE
10UJ	ISOPHORONE
10UJ	2-NITROPHENOL
10UJ	2,4-DIMETHYLPHENOL
50UJ	BENZOIC ACID
10UJ	BIS(2-CHLOROETHOXY) METHANE
10UJ	2,4-DICHLOROPHENOL
10UJ	1,2,4-TRICHLOROBENZENE
10UJ	NAPHTHALENE
10UJ	4-CHLOROANILINE
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

UG/L	ANALYTICAL RESULTS
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-METHYL-4,6-DINITROPHENOL
20UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10UJ	4-BROMOPHENYL PHENYL ETHER
10UJ	HEXACHLOROBENZENE (HCB)
50UJ	PENTACHLOROPHENOL
10UJ	PHENANTHRENE
10UJ	ANTHRACENE
10UJ	DI-N-BUTYLPHTHALATE
10UJ	FLUORANTHENE
10UJ	PYRENE
10UJ	BENZYL BUTYL PHTHALATE
20UR	3,3'-DICHLOROBENZIDINE
10UJ	BENZO(A)ANTHRACENE
10UJ	CHRYSENE
10UJ	BIS(2-ETHYLHEXYL) PHTHALATE
10UJ	DI-N-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(GHI)PERYLENE

REMARKS
EXCESSIVE HOLDING TIME

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.

12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20833 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F744 MD NO: G144

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
100J	UG/L	3 UNIDENTIFIED COMPOUNDS			

REMARKS
EXCESSIVE HOLDING TIME

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.

12/17/87

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20833 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-02 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F744

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10UJ	METHYLENE CHLORIDE
30UJ	ACETONE
5U	CARBON DISULFIDE
5U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	1,1-DICHLOROETHANE
5U	1,2-DICHLOROETHENE (TOTAL)
5U	CHLOROFORM
5U	1,2-DICHLOROETHANE
50UJ	METHYL ETHYL KETONE
5U	1,1,1-TRICHLOROETHANE
5U	CARBON TETRACHLORIDE
10U	VINYL ACETATE
5U	BROMODICHLOROMETHANE
5U	1,2-DICHLOROPROPANE

UG/L	ANALYTICAL RESULTS
5U	CIS-1,3-DICHLOROPROPENE
5U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	DIBROMOCHLOROMETHANE
5U	1,1,2-TRICHLOROETHANE
5U	BENZENE
5U	TRANS-1,3-DICHLOROPROPENE
10U	2-CHLOROETHYLVINYL ETHER
5U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
5U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10UJ	TOLUENE
5U	CHLOROBENZENE
5U	ETHYL BENZENE
5U	STYRENE
5U	TOTAL XYLENES

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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20833 SAMPLE TYPE: SURFACEWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-SW-02 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: D. NUMBER: F744

UG/L	ANALYTICAL RESULTS
0.05UR	ALPHA-BHC
0.05UR	BETA-BHC
0.05UR	DELTA-BHC
0.05UR	GAMMA-BHC (LINDANE)
0.05UR	HEPTACHLOR
0.05UR	ALDRIN
0.05UR	HEPTACHLOR EPOXIDE
0.05UJ	ENDOSULFAN I (ALPHA)
0.1UJ	DIELDRIN
0.1UJ	4,4'-DDE (P,P'-DDE)
0.1UJ	ENDRIN
0.1UJ	ENDOSULFAN II (BETA)
0.1UJ	4,4'-DDD (P,P'-DDD)
0.1UJ	ENDOSULFAN SULFATE

UG/L	ANALYTICAL RESULTS
0.1UJ	4,4'-DDT (P,P'-DDT)
0.5UJ	METHOXYCHLOR
0.1UJ	ENDRIN KETONE
0.5UJ	CHLORDANE (TECH. MIXTURE) /1
1.0UJ	TOXAPHENE
0.5UJ	PCB-1016 (AROCLOR 1016)
0.5UJ	PCB-1221 (AROCLOR 1221)
0.5UJ	PCB-1232 (AROCLOR 1232)
0.5UJ	PCB-1242 (AROCLOR 1242)
0.5UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

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

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

METALS DATA REPORT 01/22/88

PROJECT NO. 88-001 SAMPLE NO. 20831 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-07 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G141

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
20U	ALUMINUM	380	MANGANESE
31U	ANTIMONY	0.2U	MERCURY
4U	ARSENIC	7U	NICKEL
67	BARIUM	2300UJ	POTASSIUM
1U	BERYLLIUM	20R	SELENIUM
5U	CADMIUM	5U	SILVER
42000	CALCIUM	12000	SODIUM
5U	CHROMIUM	2U	THALLIUM
6U	COBALT	NA	TIN
9U	COPPER	2U	VANADIUM
72	IRON	13U	ZINC
1UJ	LEAD		
9500	MAGNESIUM		

REMARKS
HOLDING TIME EXCEEDED-CN

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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20831 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-07 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F741 MD NO: G141

RESULTS	UNITS	PARAMETER
0.01UJ	MG/L	CYANIDE

REMARKS
HOLDING TIME EXCEEDED-CN

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.

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

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20831 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-07 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F741

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	BENZYL ALCOHOL
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	BIS(2-CHLOROISOPROPYL) ETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
50U	BENZOIC ACID
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
20UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
20UR	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10U	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	BENZO(GHI)PERYLENE

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. 12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20831 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-07 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F741 MD NO: G141

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
300J	UG/L	6 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.

12/17/87

PURGEABLE ORGANICS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20831 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-07 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F741

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
20UJ	METHYLENE CHLORIDE
30UJ	ACETONE
5U	CARBON DISULFIDE
5U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	1,1-DICHLOROETHANE
5U	1,2-DICHLOROETHENE (TOTAL)
10U	CHLOROFORM
10U	1,2-DICHLOROETHANE
90UJ	METHYL ETHYL KETONE
5U	1,1,1-TRICHLOROETHANE
5U	CARBON TETRACHLORIDE
10U	VINYL ACETATE
5U	BROMODICHLOROMETHANE
5U	1,2-DICHLOROPROPANE

UG/L	ANALYTICAL RESULTS
5U	CIS-1,3-DICHLOROPROPENE
5U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	DIBROMOCHLOROMETHANE
5U	1,1,2-TRICHLOROETHANE
5U	BENZENE
5U	TRANS-1,3-DICHLOROPROPENE
10U	2-CHLOROETHYLVINYL ETHER
5U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
5U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
20UJ	TOLUENE
5U	CHLOROBENZENE
5U	ETHYL BENZENE
5U	STYRENE
5U	TOTAL XYLENES

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.

12/17/87

PESTICIDES/PCB'S DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20831 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-07 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: D. NUMBER: F741

UG/L	ANALYTICAL RESULTS
0.05UJ	ALPHA-BHC
0.05UJ	BETA-BHC
0.05UJ	DELTA-BHC
0.05UJ	GAMMA-BHC (LINDANE)
0.05UJ	HEPTACHLOR
0.05UJ	ALDRIN
0.05UJ	HEPTACHLOR EPOXIDE
0.05UJ	ENDOSULFAN I (ALPHA)
0.1UJ	DIELDRIN
0.1UJ	4,4'-DDE (P,P'-DDE)
0.1UJ	ENDRIN
0.1UJ	ENDOSULFAN II (BETA)
0.1UJ	4,4'-DDD (P,P'-DDD)
0.1UJ	ENDOSULFAN SULFATE

UG/L	ANALYTICAL RESULTS
0.1UJ	4,4'-DDT (P,P'-DDT)
0.5UJ	METHOXYCHLOR
0.1UJ	ENDRIN KETONE
0.5UJ	CHLORDANE (TECH. MIXTURE) /1
1.0UJ	TOXAPHENE
0.5UJ	PCB-1016 (AROCLOR 1016)
0.5UJ	PCB-1221 (AROCLOR 1221)
0.5UJ	PCB-1232 (AROCLOR 1232)
0.5UJ	PCB-1242 (AROCLOR 1242)
0.5UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

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

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

01/22/88

METALS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20834 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-08 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: MD NUMBER: G147

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
20U	ALUMINUM	5U	MANGANESE
31U	ANTIMONY	0.2U	MERCURY
4U	ARSENIC	7U	NICKEL
6	BARIUM	810	POTASSIUM
1U	BERYLLIUM	20UR	SELENIUM
5U	CADMIUM	5U	SILVER
38000	CALCIUM	21000	SODIUM
5U	CHROMIUM	2U	THALLIUM
6U	COBALT	NA	TIN
79	COPPER	7	VANADIUM
31U	IRON	62	ZINC
5UJ	LEAD		
26000	MAGNESIUM		

REMARKS
HOLDING TIME EXCEEDED-CN

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.

01/22/88

SPECIFIED ANALYSIS DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20834 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-08 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F747 MD NO: G147

RESULTS	UNITS	PARAMETER
0.01UJ	MG/L	CYANIDE

REMARKS
HOLDING TIME EXCEEDED-CN

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.

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

EXTRACTABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20834 SAMPLE TYPE: GROUNDWA
SOURCE: SUPERIOR PRODUCTS CO
STATION ID: SP-GW-08

PROG ELEM: NSF COLLECTED BY: K HANKINSON
CITY: GREENSBORO ST: NC
COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F747

UG/L	ANALYTICAL RESULTS
10U	PHENOL
10U	BIS(2-CHLOROETHYL) ETHER
10U	2-CHLOROPHENOL
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	BENZYL ALCOHOL
10U	1,2-DICHLOROBENZENE
10U	2-METHYLPHENOL
10U	BIS(2-CHLOROISOPROPYL) ETHER
10U	(3-AND/OR 4-)METHYLPHENOL
10U	N-NITROSODI-N-PROPYLAMINE
10U	HEXACHLOROETHANE
10U	NITROBENZENE
10U	ISOPHORONE
10U	2-NITROPHENOL
10U	2,4-DIMETHYLPHENOL
50U	BENZOIC ACID
10U	BIS(2-CHLOROETHOXY) METHANE
10U	2,4-DICHLOROPHENOL
10U	1,2,4-TRICHLOROBENZENE
10U	NAPHTHALENE
10U	4-CHLOROANILINE
10U	HEXACHLOROBUTADIENE
10U	4-CHLORO-3-METHYLPHENOL
10U	2-METHYLNAPHTHALENE
10U	HEXACHLOROCYCLOPENTADIENE (HCCP)
10U	2,4,6-TRICHLOROPHENOL
50U	2,4,5-TRICHLOROPHENOL
10U	2-CHLORONAPHTHALENE
50U	2-NITROANILINE
10U	DIMETHYL PHTHALATE
10U	ACENAPHTHYLENE
10U	2,6-DINITROTOLUENE

UG/L	ANALYTICAL RESULTS
50U	3-NITROANILINE
10U	ACENAPHTHENE
50U	2,4-DINITROPHENOL
50U	4-NITROPHENOL
10U	DIBENZOFURAN
10U	2,4-DINITROTOLUENE
10U	DIETHYL PHTHALATE
10U	4-CHLOROPHENYL PHENYL ETHER
10U	FLUORENE
50U	4-NITROANILINE
50U	2-METHYL-4,6-DINITROPHENOL
40UJ	N-NITROSODIPHENYLAMINE/DIPHENYLAMINE
10U	4-BROMOPHENYL PHENYL ETHER
10U	HEXACHLOROBENZENE (HCB)
50U	PENTACHLOROPHENOL
10U	PHENANTHRENE
10U	ANTHRACENE
10U	DI-N-BUTYLPHTHALATE
10U	FLUORANTHENE
10U	PYRENE
10U	BENZYL BUTYL PHTHALATE
20UR	3,3'-DICHLOROBENZIDINE
10U	BENZO(A)ANTHRACENE
10U	CHRYSENE
10U	BIS(2-ETHYLHEXYL) PHTHALATE
10U	DI-N-OCTYLPHTHALATE
10U	BENZO(B AND/OR K)FLUORANTHENE
10U	BENZO-A-PYRENE
10U	INDENO (1,2,3-CD) PYRENE
10U	DIBENZO(A,H)ANTHRACENE
10U	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. 12/17/87

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

PROJECT NO. 88-001 SAMPLE NO. 20834 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-08 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE.NO.: 8318 SAS NO.: D. NO.: F747 MD NO: G147

RESULTS	UNITS	COMPOUND	RESULTS	UNITS	COMPOUND
200J	UG/L	6 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.

PURGEABLE ORGANICS DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20834 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-08 COLLECTION START: 10/28/87 STOP: 00/00/00

CASE NO.: 8318 SAS NO.: D. NO.: F747

UG/L	ANALYTICAL RESULTS
10U	CHLOROMETHANE
10U	BROMOMETHANE
10U	VINYL CHLORIDE
10U	CHLOROETHANE
10UJ	METHYLENE CHLORIDE
20UJ	ACETONE
5U	CARBON DISULFIDE
5U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
5U	1,1-DICHLOROETHANE
5U	1,2-DICHLOROETHENE (TOTAL)
5U	CHLOROFORM
5U	1,2-DICHLOROETHANE
40UJ	METHYL ETHYL KETONE
5U	1,1,1-TRICHLOROETHANE
5U	CARBON TETRACHLORIDE
10U	VINYL ACETATE
5U	BROMODICHLOROMETHANE
5U	1,2-DICHLOROPROPANE

UG/L	ANALYTICAL RESULTS
5U	CIS-1,3-DICHLOROPROPENE
5U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5U	DIBROMOCHLOROMETHANE
5U	1,1,2-TRICHLOROETHANE
5U	BENZENE
5U	TRANS-1,3-DICHLOROPROPENE
10U	2-CHLOROETHYLVINYL ETHER
5U	BROMOFORM
10U	METHYL ISOBUTYL KETONE
10U	METHYL BUTYL KETONE
5U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
10U	1,1,2,2-TETRACHLOROETHANE
10UJ	TOLUENE
5U	CHLOROBENZENE
5U	ETHYL BENZENE
5U	STYRENE
5U	TOTAL XYLENES

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.

PESTICIDES/PCB'S DATA REPORT 12/17/87

PROJECT NO. 88-001 SAMPLE NO. 20834 SAMPLE TYPE: GROUNDWA PROG ELEM: NSF COLLECTED BY: K HANKINSON
SOURCE: SUPERIOR PRODUCTS CO CITY: GREENSBORO ST: NC
STATION ID: SP-GW-08 COLLECTION START: 10/28/87 STOP: 00/00/00
CASE NUMBER: 8318 SAS NUMBER: D. NUMBER: F747

UG/L	ANALYTICAL RESULTS
0.05UJ	ALPHA-BHC
0.05UJ	BETA-BHC
0.05UJ	DELTA-BHC
0.05UJ	GAMMA-BHC (LINDANE)
0.05UJ	HEPTACHLOR
0.05UJ	ALDRIN
0.05UJ	HEPTACHLOR EPOXIDE
0.05UJ	ENDOSULFAN I (ALPHA)
0.1UJ	DIELDRIN
0.1UJ	4,4'-DDE (P,P'-DDE)
0.1UJ	ENDRIN
0.1UJ	ENDOSULFAN II (BETA)
0.1UJ	4,4'-DDD (P,P'-DDD)
0.1UJ	ENDOSULFAN SULFATE

UG/L	ANALYTICAL RESULTS
0.1UJ	4,4'-DDT (P,P'-DDT)
0.5UJ	METHOXYCHLOR
0.1UJ	ENDRIN KETONE
0.5UJ	CHLORDANE (TECH. MIXTURE) /1
1.0UJ	TOXAPHENE
0.5UJ	PCB-1016 (AROCLOR 1016)
0.5UJ	PCB-1221 (AROCLOR 1221)
0.5UJ	PCB-1232 (AROCLOR 1232)
0.5UJ	PCB-1242 (AROCLOR 1242)
0.5UJ	PCB-1248 (AROCLOR 1248)
1.0UJ	PCB-1254 (AROCLOR 1254)
1.0UJ	PCB-1260 (AROCLOR 1260)

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

Appendix B

Site Inspection Report

United States
Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

EPA Form 2070-13
July, 1981

EPA

Potential Hazardous Waste Site

Site Inspection Report

SUPERIOR PRODUCTS COMPANY

Greensboro, North Cardina

Site Inspection Report

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D024600579

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Superior Products Company	Highway 70-A				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Greensboro	NC	27402	Guilford		

09 COORDINATES LATITUDE 36° 05' 15" N | LONGITUDE 79° 41' 20" W

10 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
10 / 28 / 87 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1958 (BEGINNING YEAR) to 1975 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☒ B. EPA CONTRACTOR NUS CORPORATION (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Kent Hankinson	Project Manager	NUS Corporation	(404) 938-7710
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Donny McCurry	Sample Manager	NUS Corporation	(404) 938-7710
Larry Grier	Sample Team	NUS Corporation	(404) 938-7710
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Lee Katz Jr.	Owner	5810 New Peachtree Road	(404) 4516900
Steve Craig	Manager	Highway 70-A	(919) 3755811
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☒ WARRANT	1000 - 1600 hrs	Sunny, mild 78°F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Denise Bland Smith	Environmental Protectin Agency RegionIV	(404) 347-5065

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Kent Hankinson	NUS Corporation	Region IV	404-938-7710	3 / 22 / 88 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D024600579

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [X] A. SOLID
- [ ] B. POWDER, FINES
- [X] C. SLUDGE
- [ ] D. OTHER (Specify)
- [ ] E. SLURRY
- [X] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS: _____
CUBIC YARDS: Unknown
NO. OF DRUMS: _____

03 WASTE CHARACTERISTICS (Check all that apply)

- [X] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [ ] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [X] G. FLAMMABLE
- [ ] H. IGNITABLE
- [ ] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	Unknown		Note: All wastes were deposited
OLW	OILY WASTE			in a waste lagoon Which had a
SOL	SOLVENTS	unknown		maximum capacity of 700,000
PSD	PESTICIDES			gallons. Lee Katz stated that
OCC	OTHER ORGANIC CHEMICALS	unknown		the lagoon was cleaned up in
IOC	INORGANIC CHEMICALS			1975-1976. Dark brown sludge
ACD	ACIDS			and lead are still present,
BAS	BASES			however.
MES	HEAVY METALS	Unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Lead		Waste Lagoon	11,000	mg/kg
	Nickel		Waste Lagoon	23	mg/kg
	Chromium		Waste Lagoon	34	mg/kg
	Xylene		Waste Lagoon	3900	µg/kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Recycled Oil		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Interviews with Lee Katz, Site Owner. EPA File and Correspondence
North Carolina Solid and Hazardous Waste Management

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D024600579

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Groundwater leaking from saprolite to crystalline rock aquifer is a possibility.

01 ☒ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Runoff of waste constituent into South Buffalo Creek is suggested by results of stream sediment and stream water analyses.

01 ☒ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Local residents said that there were air pollution problems in the early 1970's when the re-refining facility was active.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☒ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Aromatic hydrocarbons in sludge are highly flammable

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Sludge mounds resting on surface soil can be accessed from highway 70-A or the western stream bank of South Buffalo Creek.

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

See Above

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — ☐ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

01 ☒ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Site is unfenced.

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Site is unfenced.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE: NC | 02 SITE NUMBER: D024600579

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None observed.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Waste lagoon was unlined.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None observed

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

Photo of sludge from old lagoon available in FIT 4 file.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 3000 - 10000

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS FIT 4
USEPA File

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D024600579

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	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 (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT	Unknown	
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCINERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

- ☐ A. BUILDINGS ON SITE

06 AREA OF SITE

(Acres)

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

No liners were used.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

NUS FIT 4
USEPA File

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: NC | 02 SITE NUMBER: D024600579

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☒	B. ☒		A. ☒	B. ☐	C. ☐	A. 1650 (mi) FT.
NON-COMMUNITY	C. ☐	D. ☐		D. ☐	E. ☐	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 3000-10000

03 DISTANCE TO NEAREST DRINKING WATER WELL: 1650 FT (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
0-20 (ft)	East	0-20 (ft)	<20 (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including acreage, depth, and location relative to population and buildings)

Michael Lyle Well is used for drinking. It is located 1650 feet southeast of the Superior Processing area.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS: Regolith is less than 30ft. thick in this area.	☐ YES ☐ NO	COMMENTS

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
South Buffalo Creek	☒	300 ft. (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	≈1500 ft. (mi)
A. <1000 NO. OF PERSONS	B. <2000 NO. OF PERSONS	C. <3000 NO. OF PERSONS	

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
200+	≈1500ft (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: NCD | 02 SITE NUMBER: 024600579

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☒ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
20-30 (ft)	unknown (ft)	unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
5.1 (in)	2.7 (in)	7.5 %	Southeast	8.0 %

09 FLOOD POTENTIAL
SITE IS IN _____ YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE: A. _____ (mi)
OTHER: B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
_____ (mi)
ENDANGERED SPECIES: _____

13 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. 2.5 (mi)	B. <1 (mi)	C. _____ (mi)	D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is situated in the South Buffalo Creek valley.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS FIT 4
USEPA File

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NCD	024600579

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	Rocky Mountain Analytical / Acurex	12-28-87
SURFACE WATER	2	Rocky Mountain Analytical / Acurex	12-28-87
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	7	Rocky Mountain Analytical / Acurex	12-28-87
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Surface water	SP-SW-01 T°C = 16 pH = 7.1 Conductivity = 140 µmhos/cm
Surface water	SP-SW-02 T°C = 16 pH = 7.1 conductivity = 140 µmhos/cm
groundwater	SP-GW-07 T°C = 17 pH = 7.3 conductivity = 300 µmhos/cm
groundwater	SP-GW-08 T°C = 20 pH = 6.7 Conductivity = 440 µmhos/cm

IV. PHOTOGRAPHS AND MAPS

01 TYPE [X] GROUND [ ] AERIAL

02 IN CUSTODY OF NUS Corporation
(Name of organization or individual)

03 MAPS [X] YES [ ] NO

04 LOCATION OF MAPS Site area

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Photographs of sludge pool.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS FIT 4
USEPA File

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NCD	024600579

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Lee Katz Jr.		5810 New Peachtree Rd.		Doraville	GA	30340

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE
Seaboard Industries						

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

IV. REALTY OWNER(S) (If applicable: list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NCD	0246 00579

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Not applicable	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NCD	024600579

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
Not applicable		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE / 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, 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, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, 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, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: NCD | 02 SITE NUMBER: 024600579

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☒ D. SPILLED MATERIAL REMOVED | 02 DATE | 03 AGENCY
04 DESCRIPTION
From 1975 to early 1976, excavation of waste lagoon occurred.

01 ☒ E. CONTAMINATED SOIL REMOVED | 02 DATE | 03 AGENCY
04 DESCRIPTION
From 1975 to early 1976, excavation of waste lagoon occurred.

01 ☐ F. WASTE REPACKAGED | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ G. WASTE DISPOSED ELSEWHERE | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ H. ON SITE BURIAL | 02 DATE | 03 AGENCY
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ J. IN SITU BIOLOGICAL TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ K. IN SITU PHYSICAL TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ L. ENCAPSULATION | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ M. EMERGENCY WASTE TREATMENT | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ N. CUTOFF WALLS | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ P. CUTOFF TRENCHES/SUMP | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

01 ☐ Q. SUBSURFACE CUTOFF WALL | 02 DATE | 03 AGENCY
04 DESCRIPTION
N/A

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE: NCD | 02 SITE NUMBER: 024600579

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NCD	024600579

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

On May 8, 1975, Superior was issued a consent order by the North Carolina Environmental Management Commission. The order was issued partly in response to unauthorized discharges of oil and wastewater to South Buffalo Creek. Furthermore, air emissions by an onsite oil heater and flash vaporizer violated North Carolina air quality standards. Specific requirements of the document included the removal of oil-soaked earth around oil processing equipment and filling of the waste lagoon east of the facility. To do this, Superior shut down from late 1975 to early 1976.

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)