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EPA, REGION V

CURRENT CONDITIONS REPORT

DuPont Circleville Facility
Circleville, Ohio

June 21, 1996 **DERS Project No. 1714**

VOLUME 2

US EPA RECORDS CENTER REGION 5
1005293

Prepared by

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COMPLETION OF CLOSURE LETTER AND ASSOCIATED CLOSURE REPORTS

OhioEPA
State of Ohio Environmental Protection Agency

STREET ADDRESS:
1800 WaterMark Drive
Columbus, OH 43215-1099

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P.O. Box 1049
Columbus, OH 43216-1049

June 23, 1995

Re: Completion of Closure
E.I. DuPont de Nemours & Co., Inc.
U.S. EPA ID No.
OHD004287322

E. I. DuPont de Nemours & Company, Inc.
Attn: Mr. James Riley
P.O. Box 89
Circleville, Ohio 43113

Dear Mr. Riley:

According to Ohio EPA records, on September 27, 1990, the Director of the Ohio EPA approved a closure plan for E.I. DuPont de Nemours & Company, Inc., US Route 23 South, Circleville, Ohio 43113. The plan concerned a hazardous waste surface impoundment and sludge drying bed area at the facility. On October 21, 1994, Ohio EPA received certification documents stating that the surface impoundment and sludge drying bed had been closed according to the specifications in the approved closure plan. Ohio EPA District Office personnel completed a closure inspection and a review of documents pertaining to the surface impoundment and sludge drying bed on December 16, 1994.

Based on this inspection and review, the Ohio EPA has determined that the hazardous waste surface impoundment and sludge drying bed have been closed in accordance with the approved closure plan and Rules 3745-66-12 through 3745-66-15 of the Ohio Administrative Code (OAC). E.I. DuPont de Nemours & Company, Inc., is currently operating as a large quantity generator (LQG) of hazardous waste.

As specified in OAC Rule 3745-66-40, E.I. DuPont de Nemours & Company, Inc., will not be required to maintain financial assurance for closure costs and liability coverage for accidental occurrences at this location, in accordance with OAC Rules 3745-66-43(H) and 3745-66-47(E).

Please note that this letter does not relieve the facility of any corrective action responsibilities that may be required.

If you have any questions concerning the closure process or the current status of the facility, please contact the Ohio EPA, Central District Office, Attn: Andrew D. Kubalak, 3232 Alum Creek Drive, Columbus, Ohio 43207-3417, tel: (614) 728-3778.

Sincerely yours,

Thomas E. Crepeau

Thomas E. Crepeau, Manager
Data Management Section
Division of Hazardous Waste Management

cc: Harriet Croke, U.S. EPA, Region 5
Ed Kitchen, DHWM
Maria Velalis, DHWM
Laurie Stevenson, DHWM
Andrew D. Kubalak, CDO

CLOSURE CERTIFICATION DOCUMENTATION FOR TEMPORARY SLUDGE HOLDING AREA AND SOUTH BIOPOND

E.I. DuPont de Nemours & Company, Inc.
Circleville, Ohio

U.S. EPA Identification No. OHD 004287322

October 1994

Baker

Baker and Associates
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

(412) 269-6200
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INDEPENDENT REGISTERED PROFESSIONAL ENGINEER'S CERTIFICATION OF CLOSURE SOUTH BIOPOND

The report of closure of the South Biopond, titled 'South Biopond and Temporary Sludge Holding Area Closure Plan and Equivalency Demonstration', dated August 1989 (revised May 1990), is the basis of this statement. A copy of the revised report is included in Exhibit 1 of this documentation package. As indicated in the report of closure activities and analyses for the South Biopond, the waste inventory, the geomembrane liner and soils above the closure clean-limit for Appendix IX metals and synthetic organic compounds, and EP-toxicity metals plus antimony have been removed from the South Biopond and disposed of offsite at a regulated facility. Such activities were completed on or about July 29, 1988. The area has since been reconstructed as a nonhazardous waste treatment facility.

Baker and Associates as an independent engineering consultant, was requested by DuPont to review the closure report for the South Biopond and conduct an onsite visual inspection of the South Biopond to confirm that the reported activities comply with appropriate regulations, specifically 40 CFR 264.228, effective at the time of review.

The document review was conducted between July 31 and August 7, 1989 by Baker and Associates staff members and a site visit to visually inspect the area of the South Biopond was made by Terry S. Hawk, P.E., a Baker and Associates licensed professional engineer. Comparison of the report of closure of the South Biopond with the regulatory requirements indicates that those requirements have been satisfied. The visual inspection of the site indicates that the report of closure reflects the closure activities, and that the waste shipment manifests previously submitted by DuPont to EPA Region V in June 1989 had been copied and retained onsite.

Based on the report cited above, a comparison of the report with the regulatory requirements and a visual inspection of the site, it appears that the facility had been closed in general accordance with the regulatory requirements.

Facility Name: E.I. DuPont de Nemours & Co., Inc.
Circleville, Ohio Plant
U.S. EPA Identification No.: OHD 004287322

Facility Location: Route 23 South
Circleville, OH 43113

STATE OF OHIO
TERRY SAMUEL HAWK
E-42374
REGISTERED PROFESSIONAL ENGINEER

Engineer's Signature: 10/6/94
Name: Terry Samuel Hawk, P.E.
Title: Engineering Manager
Name of Firm: BAKER AND ASSOCIATES
Airport Office Park - Building 3
420 Rouser Road
Coraopolis, PA 15108
Telephone Number: 412-269-6000

OWNER/OPERATOR CERTIFICATION OF CLOSURE
TEMPORARY SLUDGE HOLDING AREA AND
SOUTH BIOPOND

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: E.I. DuPont de Nemours & Co., Inc.
Circleville, Ohio Plant
U.S. EPA Identification No.: OHD 004287322

Facility Location: Route 23 South
Circleville, OH 43113

Owner/Operator's Signature: Lynn K Millikin
Name: Lynn K. Millikin
Title: Plant Manager
Telephone Number: 614-474-0111
Date: 10-21-94

CLOSURE REPORT (OCTOBER 1994) FOR
TEMPORARY SLUDGE HOLDING AREA AT
E.I. DUPONT DE NEMOURS & COMPANY, INC.
CIRCLEVILLE, OHIO

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CLOSURE REPORT FOR
TEMPORARY SLUDGE HOLDING AREA
DuPont, Circleville, Ohio

1.0 INTRODUCTION

As discussed in this report, the Temporary Sludge Holding Area at DuPont's Circleville facility has been closed in accordance with the "South Biopond and Temporary Sludge Holding Area Closure Plan and Equivalency Demonstration" (Closure Plan) dated August 1989 and Revised May 1990; including subsequent modifications to the plan as approved by the Ohio Environmental Protection Agency (Ohio EPA) in its November 17, 1993 and August 22, 1994 letters to DuPont. The Closure Plan as well as subsequent modifications and approvals are included as Exhibit 1.

Closure activities included soil sampling and excavation of soils identified as having the potential of containing elevated levels of the constituents of concern. The excavation work was performed by Chemical Waste Management, Inc. (CWM) of Columbus, Ohio. A representative of Baker and Associates (Baker) was present to provide technical and sampling support during soil excavation and provide engineering oversite and closure certification.

This report describes the methods used in obtaining the soil samples, the laboratory programs, analytical results, and contains copies of the daily inspection reports prepared during oversight of excavation activities.

2.0 SITE DESCRIPTION

As outlined in "Facility/Unit Description" within the Closure Plan, the Temporary Sludge Holding Area is an approximate 80-foot by 300-foot excavated basin about five feet deep, located in the northwestern section of the facility. This basin was lined with plastic sheeting and used to contain waste materials removed from the North Biopond during its 1986 sludge cleanout and relining. The basin contained sludge from the North Biopond cleanout until DuPont performed sludge and liner removal between May and July 1988. In addition, the Temporary Sludge Holding Area was used for staging the mechanical dewatering operations of and resulting filter cake from the sludge cleanout of the adjacent South Biopond in 1988.

The bioponds historically were used to treat non-hazardous wastewaters from plant operations. Between 1981 and 1986, however, the bioponds were used to treat groundwater contaminated with vinylidene chloride (1,1-dichloroethylene) originating from cleanup of a spill on site. U. S. EPA determined that the contaminated groundwater contained a hazardous waste (U087). Hence the sludge placed in the Temporary Sludge Holding Area from the bioponds was considered by U.S. EPA to be a hazardous waste (U087) since it was mixed with the groundwater.

As described in the Closure Plan, an extensive sampling program was performed for DuPont by ERT (now ENSR) of Concord, Massachusetts to characterize the wastes associated with the biopond and the Temporary Sludge Holding Area. Waste samples were analyzed for 40 CFR Appendix IX metals, volatiles, and semi-volatiles. The samples were analyzed on a total constituent basis. Sludge samples additionally were subjected to EP Toxicity testing for the eight drinking water metals plus antimony.

The results of this testing program, along with knowledge of plant processes were used to compile the list of constituents to be sampled in the soil to verify clean closure.

Clean levels were set at method detection limits for the organic constituents. For the metals, the clean levels were established as background plus two standard deviations, for all metals except nickel, which was based upon Ohio Farm Soils Data. The Closure Plan included the option of establishing health-based cleanup levels after initial soil sampling results were obtained and evaluated.

The Closure Plan stipulates that the soil removed be managed as a hazardous waste if it exhibits any of the characteristics of a hazardous waste, or if determined to be contaminated with a listed hazardous waste or waste derived from a listed hazardous waste.

3.0 SUMMATION OF CLOSURE ACTIVITIES

Closure activities were divided into phases. Phase I consisted of an extensive sampling and analytical program to ascertain the presence and concentration levels of the constituents of concern. The results of the Phase I analyses were reviewed, and DuPont elected to pursue health-based cleanup standards.

Phase II was initiated upon the mutual concurrence between DuPont and Ohio EPA that different technical opinions within the organizations, precluded coming to agreement on health-based cleanup standards. Therefore, DuPont elected to attempt to achieve clean closure based upon background values for all metals of concern except nickel, whose cleanup level is the Ohio Farms Soils value.

The activities conducted for each phase are summarized in the following sections.

3.1 Phase I Activities

DuPont contracted with Stilson Laboratories, Inc. of Columbus, Ohio to collect and analyze the Phase I soil samples. DuPont also contracted with Baker and Associates to oversee the sampling activities and summarize the results. In addition, DuPont contracted Aqua Tech Environmental Consultants to obtain soil samples for analyses and development of cleanup values for the inorganic constituents of concern based upon background levels. Background values were provided to Baker and incorporated into the Phase I Sampling Report (Exhibit 2).

The background metals data used to develop the cleanup standard for each parameter of concern in the soil are presented in Attachment II of the Phase I Report. The cleanup standard used for nickel is based on the Ohio Farm Soils Data, as presented in DuPont's November 4, 1993 letter to Ohio EPA.

Sampling was conducted by Stilson in November of 1990. A sampling grid was established within the Temporary Sludge Holding Area. Grid nodes were spaced every 30 feet in the north-south direction and every 15 feet in the east-west direction. Samples were obtained at each node for a total of 66 sampling points for the Phase I sampling.

The results of the Phase I sampling and analyses were compiled into the "Report of Phase I Shallow Soil Sampling Oversight at the Temporary Sludge Holding Lagoon, Circleville, Ohio" dated January, 1991 (Exhibit 2).

The samples were analyzed for the constituents specified in the approved Closure Plan, as follows:

- Metals:
  - antimony
  - arsenic
  - barium
  - cadmium
  - chromium
  - lead
  - mercury
  - nickel

- Volatile Organic Compounds:
  - acetone
  - chloroform
  - 1,1-dichloroethylene (a.k.a., vinylidene chloride)
  - dichloromethane
  - 1,4-dioxane
  - ethylbenzene
  - methyl ethyl ketone
  - toluene

- Semi-Volatile Organic Compound:
  - pyridine

The "Results" section in the Phase I Report summarize and evaluate the Phase I analytical results with respect to the established cleanup values. No organic constituents of concern were found above the method detection limits, which are the established cleanup standards. Five metals (antimony, arsenic, cadmium, chromium, and lead) were detected in the soil samples at levels exceeding established cleanup values.

In addition to the total constituent analyses, Toxicity Characteristic Leaching Procedure (TCLP) testing was conducted on four Phase I soil samples that contained the highest concentrations of the four RCRA (Resource Conservation and Recovery Act) metals (i.e., arsenic, cadmium, chromium, and lead) that were measured at levels exceeding established cleanup values. The TCLP results showed that the samples did not contain leachable concentrations of the metals that would classify the material as characteristically hazardous due to toxicity as defined by OAC 3745-51-24. Testing for other characteristics of hazardous waste (i.e., ignitability, corrosivity, reactivity) was not performed nor warranted due to the known waste properties established from the prior testing conducted by ERT. TCLP analytical results are included as Exhibit 3.

Because the measured levels of metals of concern exceeded the background cleanup levels, DuPont initiated a risk assessment evaluation of the Temporary Sludge Holding Area and development of site specific health-based cleanup standards in accordance with the options provided in the approved Closure Plan.

There was ongoing correspondence with Ohio EPA to attempt to establish these alternative cleanup standards. Because agreement could not be reached in a timely fashion, DuPont, with Ohio EPA concurrence, withdrew the proposed health-based cleanup standards.

DuPont proposed to proceed with clean closure of the Temporary Sludge Holding Area in accordance with the previously approved Closure Plan (April 1989 - Revised May 1990) with minor proposed modifications by letter dated November 4, 1993. Ohio EPA approved the minor modifications by letter dated November 17, 1993. (Correspondence is included as Exhibit 1.)

3.2 Phase II Activities

Phase II soil removal and verification sampling began on December 8, 1993. The excavation work was observed by Baker personnel. Exhibit 4 contains copies of the daily inspection reports. The areas to be excavated were identified by Baker personnel based on the results of Phase I sampling.

Excavation to remove the elevated levels of the constituents of concern was performed by CWM. Baker personnel collected confirmatory soil samples from the base of the excavation.

Contaminated soil removal was accomplished by utilizing a trackhoe excavator. The excavated soil was deposited in 30 cubic yard tractor/trailer dump trucks. The trailers and transportation was provided by Redbank Transport of Cincinnati, Ohio (Redbank) under subcontract to CWM.

CWM personnel used a wheel loader to construct an aggregate access road and staging areas along the south, north, and west sides of the Temporary Sludge Holding Area. Upon arrival, the truck and trailer combinations were directed to and loaded at the staging area nearest the ongoing excavation activities. Redbank utilized DuPont's truck scales before leaving the facility to determine load size.

The excavated soil was transported by Redbank to Waste Management Inc.'s ELDA Landfill facility in Cincinnati, Ohio, which is a non-hazardous landfill, for ultimate disposal. The Phase I sampling results showed that the excavated soil is not a hazardous waste by characteristic. In addition, since the only listed hazardous waste that is known that the soil could have been contaminated with is 1,1-dichloroethylene (a.k.a., vinylidene chloride) and all Phase I soil samples were below method detection limit, the conclusion is reached that the soil is not contaminated with or derived from a listed hazardous waste.

Therefore, because the Closure Plan stipulates that the soil removed be managed as a hazardous waste if it exhibits any of the characteristics of a hazardous waste, it is determined to be contaminated with a listed hazardous waste or a waste derived from a listed hazardous waste, and these conditions do not exist, it was determined that the proper disposal of the excavated soil would be at a properly permitted non-hazardous landfill. Exhibit 5 contains copies of information submitted to the ELDA facility for acceptance approval of the material. Exhibit 6 contains copies of the bills of lading for transport to the landfill.

Phase II soil excavation and sampling was performed in stages. Each excavation and sampling event was delineated based on the previous soil sampling results. The initial Phase II event on December 1993 excavated a minimum six-inch depth of soil and vegetation from the areas delineated in Figure 1.

Upon comparison of the December 1993 sampling results with the background cleanup values established during the Phase I sampling event, it was discovered that the Phase I analytical results were reported "as received" (i.e., total weight basis) whereas the background concentrations were calculated on a dry weight basis.

Hence, the initial comparisons of Phase I sample results with the background were re-evaluated. Because there had been a significant lapse of time since the Phase I samples were collected, and water content was not analyzed; analytical results on a dry weight basis were not available and could not be measured.

In order to evaluate the potential consequences of the comparison of the as-received results with the dry weight background concentrations, a review of the solids contents of the December 1993 Phase II sampling and the background soil samples was conducted to determine the range of reported solids contents. This was done recognizing that a soil deposit will contain a natural range of solids content based upon the available moisture (i.e., precipitation), particle size, mineralogy, and density. Because the soil properties were not altered between the Phase I and initial Phase II sampling events,

and the sampling was conducted during the same season (i.e., mid- to late fall), it can be postulated that the range of solids contents in the Phase I samples was likely to be similar to the range of solids contents measured in the background soil samples and the initial Phase II samples.

The review of the results revealed the following:

- Solids content ranged from 82.6 to 87.6 percent in 16 background soil samples collected October 5, 1989.

- Solids content ranged from 78.0 to 94.0 percent in 46 confirmatory soil samples collected December 8 & 9, 1993.

To convert the reported Phase I as-received analytical results to dry-weight basis values, the as-received value is divided by the solids content expressed as a decimal. Therefore, the lower the solids content, the higher the dry-weight value relative to the as-received value.

To re-evaluate the Phase I analytical results with respect to the established cleanup values, a worst-case assumption that all Phase I samples had a solids content of 75 percent was made. This value is lower than the lowest solids content recorded in the 62 solids content results available, and was selected to insure that all material with contaminant concentrations exceeding the cleanup values was removed. The calculated dry-weight basis results utilizing the assumed 75 percent solids content are presented in Table 1 - "Summary of Phase I Non-Aqueous Analytical Dry Weight Results Calculated Based Upon 75 Percent Solids Content."

This evaluation was made for the Phase I values that prior to correction for 75 percent solids content were above the laboratory detection limit but did not exceed the cleanup level at all sampling locations. Parameters with analytical results that were below the laboratory detection limit were not corrected to 75 percent solids content. The dry weight values that exceed the respective cleanup levels were reviewed to determine areas within the Temporary Sludge Holding Area that were not sufficiently addressed by the initial excavation and confirmatory sampling, and the second round of Phase II excavation and confirmatory sampling was structured to incorporate these areas.

Based on the results of the initial confirmatory samples and the incorporation of the Phase I dry-weight values an additional 12 to 18 inches of soil excavation was performed in March 1994 (see Figure 2). Additional excavation was required based on the results of the March 1994 confirmatory sampling. In May 1994, CWM personnel removed a minimum of 12 inches of soil from the areas delineated in Figure 3. The final 12 inches of soil excavation (see Figure 4) was performed on June 28, 1994. A total combined soil surface area of approximately 26,700 square feet (approximately 900 in-place cubic yards of soil) was excavated from the Temporary Sludge Holding Area for closure of the site. The successful closure of the Temporary Sludge Holding Area was finally established based on the results of the laboratory analyses conducted in August 1994 as contained in the August 24, 1994 Analytical Report in Exhibit 7.

4.0 SUMMATION OF PHASE II SAMPLING ACTIVITIES

Baker personnel performed confirmatory sampling at the Temporary Sludge Holding Area to assure that contaminated soil had been removed. The confirmatory sampling included equipment rinsate samples taken from sampling equipment to verify that soil sample results were not cross-contaminated by the sampling equipment.

All samples were received by the analytical laboratory no later than 48 hours after sample collection. All Phase II analyses were performed by Enseco-Wadsworth/Alert Laboratories (Wadsworth), (which was renamed Quanterra during this project) of North Canton, Ohio. Analytical reports are included as Exhibit 7.

Sampling protocol was in accordance with Section 3.2.3 "Sample Collection and Handling" of the approved Closure Plan. The laboratory methods used for analyses were those summarized in Table 6 of the Closure Plan as modified by letter dated November 4, 1993.

4.1 Soil Samples

On December 8 and 9, 1993 initial Phase II verification sampling was conducted after soils identified in Phase I as exceeding the cleanup level were excavated (see Figure 1). The results of Phase II samples obtained from the base of the excavated soil were used to determine areas remaining within the Temporary Sludge Holding Area having elevated constituent concentrations. Additional Phase II soil sampling was comprised of several soil excavation and sampling events performed during March 14,15,16,17; May 2,3; and June 28, 1994. Figures 2, 3, and 4, respectively, depict these additional Phase II soil excavation and sampling locations selected by Baker personnel based on sampling results.

Figures 1, 2, 3, and 4 depict each Phase II excavation and sampling event. Each constituent of concern for a particular sampling event has a figure detailing sampling locations (i.e. Figure 1A Antimony Levels), as well as the limits of excavation.

A total of 172 soil samples including ten field duplicate samples were taken during the four Phase II sampling events from the Temporary Sludge Holding Area at the locations indicated on Figures 1, 2, 3, and 4. The soil samples were collected with stainless steel sampling spoons from the surface of the soil excavation. Soil samples were placed directly into clean labeled sample jars supplied by Wadsworth. Care was taken to avoid inclusion of extraneous materials such as vegetation, roots, large stones, or rocks. The samples were packed into coolers with ice as a preservative for express delivery to Wadsworth.

4.2 Equipment Blank Samples

Sampling equipment blanks were obtained on a daily basis to evaluate the adequacy of decontamination procedures. An equipment blank sample was taken after decontamination by pouring distilled/deionized water over a decontaminated stainless steel sampling spoon and collecting the liquid in a clean sample jar. The equipment blank was shipped to Wadsworth with the soil samples and analyzed for all constituents of interest in the sampled soil.

Results of the equipment blanks are summarized in Table 2. All analyzed parameters except lead were below the laboratory method detection limits. The measured lead concentrations were all below the Maximum Contaminant Level (MCL) for lead, and are not sufficiently high to have impacted the soil sample results.

4.3 Trip Blanks

Trip blanks to accompany the samples required in accordance with "Sampling Collection and Handling", in the Closure Plan were not necessary for the Phase II sampling because no volatile organic compounds were analyzed during the Phase II sampling program. It was established during Phase I sampling that volatile organic constituents were not a concern and would not be part of the Phase II soil analyses, therefore, trip blanks were not necessary.

4.4 Sample Results

Exhibit 7 contains all the laboratory analytical reports of the Phase II soil sampling and analyses. Laboratory QA/QC documentation and chain-of-custody records for the Phase II sampling are contained within the analytical reports.

Analytical results are summarized in Tables 3, 4, 5, 6, and 7. These tables not only summarize the analytical results, but also provide the comparison with the cleanup level values. Each Table summarizes the results from a distinct sampling event except for Table 7, which summarizes 25 laboratory duplicate arsenic results from one sample jar (J/KK-2/3) obtained during the final confirmatory sampling event.

These multiple laboratory duplicates were performed on this sample (J/KK-2/3) because the arsenic concentration reported for this sampling location was unusually high relative to the prior arsenic concentrations measured in the surrounding area as well as the arsenic confirmatory samples from other excavation areas taken on June 1994. Because of this seeming discrepancy, there was a concern that the reported value was not representative of the arsenic concentration at that sampling location, but rather, represented a concentration of arsenic in the small aliquot on which the laboratory test was conducted. To determine the representative average concentration of arsenic in the sample jar, 24 additional aliquots were analyzed to obtain a representative statistical population of arsenic values of the soil in the sample jar from which an average arsenic concentration could be determined.

The 25 arsenic values obtained from this soil sample jar are summarized in Table 7. As can be seen from the values in Table 7, a wide range of values were obtained. Therefore, the data was subjected to an outlier test. The outlier test showed that all 25 values are within the expected range for a normal statistical distribution. Therefore, all 25 values were used to calculate the average arsenic concentration of the soil at the sampling location. The calculated average value is 24.0 mg/kg and the cleanup level for arsenic is 24.2 mg/kg. Therefore, the area excavated for arsenic that is represented by sample J/KK-2/3 is considered to be clean.

Comparison of the summary of analytical results (presented in Tables 3 through 6) with the Figures that depict the location of the sampling points relative to the excavation areas shows that at the completion of the excavation activities, constituent levels in the remaining soil are below the

established cleanup levels. Hence, clean closure was achieved in accordance with the approved Closure Plan.

5.0 SUMMATION OF HEALTH AND SAFETY ACTIVITIES

In accordance with DuPont's Health and Safety Plan, CWM and Baker personnel wore steel-toe safety boots and safety glasses. Hard hats were worn when personnel were in the area of operating equipment such as the loader or excavator. When sampling, disposable neoprene gloves were worn. Contact with the soil was avoided through the use of stainless steel spoons. Disposable TYVEK suits were occasionally worn, at the discretion of the on-site personnel. Disposable safety clothing was transported with the excavated soil to Waste Management ELDA facility, Cincinnati, Ohio for proper disposal.

Equipment that contacted contaminated soils during excavation was decontaminated prior to leaving the site. The decontamination procedure for the backhoe bucket and stainless steel sampling spoons consisted of scraping to remove excess soil accumulation, a non-phosphate detergent wash, and a distilled water rinse. The decontamination of the backhoe bucket was performed within the trailer of the final transport truck. All wastes generated during the decontamination of the backhoe bucket were collected and contained within the trailer. The small quantities of captured sampling spoon decontamination fluids also were combined with the material in the final transport truck. The decontamination materials were transported along with the soil to the Waste Management ELDA facility, Cincinnati, Ohio for proper disposal.

TABLES

TABLE 1
SUMMARY OF PHASE I NON-AQUEOUS ANALYTICAL DRY WEIGHT RESULTS
CALCULATED BASED UPON 75% SOLIDS CONTENT
TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)	Nickel (Ni) (mg/kg)
A-1	**38.9**	36.1	9.5	10.0	12
A-2	17.3	**162.7**	**293.3**	16.4	10
A-3	**36.4**	95.6	**67.5**	10.7	16
A-4	**50.7**	55.7	**105.6**	13.9	13
A-5	**40.0**	37.9	**30.9**	8.8	12
A-6	**31.6**	29.9	7.8	12.5	13
B-1	**33.7**	113.2	**156.0**	12.4	13
B-2	**26.7**	69.5	10.5	9.9	16
B-3[1]	**25.4**	51.2	18.4	8.9	14
B-4	**31.5**	90.8	**27.2**	11.9	17
B-5	**118.9**	28.0	9.4	9.1	12
B-6	**24.7**	38.5	14.1	16.9	14
C-1	21.6	38.0	17.7	9.1	15
C-2	21.2	39.9	**27.1**	7.3	13
C-3	**27.9**	71.5	**47.3**	8.7	16
C-4	**31.1**	82.4	**64.8**	8.7	15
C-5	**25.6**	70.8	20.7	11.3	16
C-6	**24.0**	38.3	11.1	6.7	15
D-1	23.3	42.4	14.5	11.8	2
D-2	15.6	19.5	8.5	8.5	9
D-3	16.1	26.5	8.3	7.6	8
D-4[1]	**28.4**	82.3	**127.8**	**31.5**	11
D-5	22.7	48.1	23.2	14.9	10

TABLE 1 (Continued)
SUMMARY OF PHASE I NON-AQUEOUS ANALYTICAL DRY WEIGHT RESULTS
CALCULATED BASED UPON 75% SOLIDS CONTENT
TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)	Nickel (Ni) (mg/kg)
D-6	15.7	38.3	6.3	12.8	9
E-1	22.8	50.5	10.2	20.8	12
E-2	18.4	50.5	10.3	17.7	11
E-3	21.5	60.4	**32.8**	8.3	12
E-4	20.7	48.1	8.5	9.1	13
E-5	19.2	42.1	10.7	8.7	12
E-6	20.1	48.3	10.9	20.3	12
F-1	28.5	87.1	**50.1**	25.2	12
F-2	21.1	63.1	24.5	11.2	12
F-3	22.9	71.2	**56.0**	11.3	10
F-4	21.7	148.0	**255.6**	18.3	11
F-5	**34.8**	12.3	**206.7**	15.9	11
F-6	19.6	54.4	9.4	16.4	11
G-1	23.9	75.9	**101.6**	14.1	11
G-2	**50.9**	54.7	15.3	20.9	14
G-3[1]	21.8	108.1	10.2	11.4	12
G-4	21.7	42.0	7.7	14.9	10
G-5	20.1	40.4	8.2	12.2	11
G-6	16.7	30.5	7.5	7.7	10
H-1	**41.5**	94.7	16.4	15.5	22
H-2	**33.7**	90.7	31.9	12.0	15
H-3	17.9	38.7	11.5	13.3	10
H-4	14.5	43.5	10.3	12.0	11
H-5	20.7	62.3	**51.2**	12.4	11
H-6	10.1	20.7	3.8	7.3	9
I-1	31.6	105.6	**92.0**	14.7	15
I-2	**36.9**	86.7	17.1	14.1	21
I-3	19.6	63.1	20.0	10.6	12
I-4	18.0	46.7	13.7	9.6	11
I-5[1]	19.7	65.1	**44.0**	12.9	14
I-6	16.9	56.1	8.8	13.2	15

TABLE 1 (Continued)
SUMMARY OF PHASE I NON-AQUEOUS ANALYTICAL DRY WEIGHT RESULTS
CALCULATED BASED UPON 75% SOLIDS CONTENT
TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)	Nickel (Ni) (mg/kg)
J-1	18.3	68.8	10.1	20.0	15
J-2	**34.3**	134.7	**220.0**	13.9	15
J-3	19.6	61.1	**35.1**	12.1	14
J-4	26.3	96.0	16.4	10.1	17
J-5	23.1	98.9	**146.7**	13.5	12
J-6	18.9	50.9	23.9	10.8	12
K-1	19.6	34.7	9.8	8.9	13
K-2	14.1	30.0	5.6	10.5	11
K-3	15.6	41.7	9.9	9.2	11
K-4	13.3	45.9	10.7	8.8	13
K-5	23.9	100.0	**67.9**	10.1	13
K-6	17.9	30.5	6.1	9.7	12

Notes: (1) Values shown are average of sample and field duplicate at sampling point.

- Shaded blocks represent sampling points/constituents that were below cleanup levels when "as-received" results were compared with cleanup levels.

Bold Values Exceed Cleanup Level

Sampling parameters not contained in the table had initial "as received" water content results below laboratory detection limits or all reported values exceeded the cleanup levels prior to 75 % solids correction.

PARAMETER	CLEANUP LEVEL
Arsenic	24.2 mg/kg
Barium	160.45 mg/kg
Chromium	23.9 mg/kg
Lead	20.6 mg/kg
Nickel	28 mg/kg

TABLE 2
SUMMARY OF AQUEOUS ANALYTICAL RESULTS OF SAMPLING EQUIPMENT RINSATES FOR CLOSURE VERIFICATION SAMPLING CONDUCTED DECEMBER 1993, MARCH 1994, MAY 1994, AND JUNE 1994
TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE DATE	Antimony (Sb) (mg/L)	Arsenic (As) (mg/L)	Barium (Ba) (mg/L)	Cadmium (Cd) (mg/L)	Chromium (Cr) (mg/L)	Lead (Pb) (mg/L)
12-8-93	BDL (<0.010)	BDL (<0.0050)	NA	BDL (<0.010)	BDL (<0.020)	BDL (<0.0030)
12-9-93	BDL (<0.010)	BDL (<0.0050)	NA	BDL (<0.010)	BDL (<0.020)	BDL (<0.0030)
3-14-94	BDL (<0.010)	BDL (<0.0050)	BDL (<0.010)	NA	BDL (<0.020)	BDL (<0.0030)
3-15-94	BDL (<0.010)	BDL (<0.0050)	BDL (<0.010)	NA	BDL (<0.020)	BDL (<0.0030)
3-16-94	BDL (<0.010)	BDL (<0.0050)	BDL (<0.010)	NA	BDL (<0.020)	BDL (<0.0030)
3-17-94	BDL (<0.010)	BDL (<0.0050)	BDL (<0.010)	NA	BDL (<0.020)	BDL (<0.0030)
5-2-94	BDL (<0.010)	BDL (<0.0050)	NA	NA	BDL (<0.020)	0.0038
5-3-94	BDL (<0.010)	BDL (<0.0050)	NA	NA	BDL (<0.020)	0.0039
6-28-94	NA	BDL (<0.0050)	NA	NA	BDL (<0.020)	0.0085

Notes: NA = Not Analyzed
BDL = Below Detection Limit

Analytical Methods:		
	Antimony	SW7041
	Arsenic	SW7060
	Barium	SW6010
	Cadmium	SW6010
	Chromium	SW6010
	Lead	SW7421

TABLE 3
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED DECEMBER 1993 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Cadmium (Cd) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
A-2	**38.8**	NA	BDL (<0.61)	**254**	NA
A-4	NA	**24.8**	NA	23.6	17.6
A/B-1/2	**25.4**	**39.6**	BDL (<0.59)	**137**	NA
A/B-2/3	**20.4**	23.6	BDL (<0.60)	**137**	18.6
A/B-4/5	NA	23.6	NA	**43.9**	**22.0**
A/B-5/6	NA	**70.4**	NA	NA	NA
B-1	NA	**34.4**	NA	**146**	NA
B-5	NA	**97.0**	NA	NA	NA
B/C-1/2	NA	20.6	NA	13.2	NA
B/C-2/3	NA	NA	NA	19.1	NA
B/C-5	NA	**194**	NA	NA	NA
C-4	NA	NA	NA	**83.7**	NA
C/D-2/3	NA	NA	NA	8.1	NA
C/D-4/5	NA	NA	NA	**24.1**	15.7
D-3/4	NA	NA	NA	7.4	BDL (<10.7)
D/E-2/3	NA	NA	NA	21.8	NA
D/E-4/5	NA	NA	NA	**43.5**	16.1
E-3/4	NA	NA	NA	**24.1**	NA
E/F-1	NA	NA	NA	13.6	NA
E/F-2/3	NA	NA	NA	**95.3**	NA
E/F-4	NA	12.9	NA	22.6	NA
E/F-5/6	NA	14.0	NA	**71.9**	NA
F-4	NA	**29.1**	NA	**356**	NA
F-5	NA	**34.4**	NA	**423**	NA
F/G-2/3	NA	18.6	NA	16.5	NA
F/G-4	NA	21.3S	NA	**49.8**	NA

TABLE 3 (Continued)
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED DECEMBER 1993 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Cadmium (Cd) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
F/G-5/6	NA	12.0	NA	**33.6**	NA
G-1	NA	NA	NA	10	NA
G-2	NA	**24.5**	NA	NA	NA
G/H-2/3	NA	**29.6**	NA	NA	NA
G/H-5	NA	NA	NA	9.6	NA
H-1	NA	20.2	NA	NA	NA
H/I-2/3	NA	**54.6**	NA	NA	NA
H/I-4/5	NA	NA	NA	**53.5**	NA
H/I-5/6	NA	NA	NA	16.2	NA
I-2	NA	14.2	NA	NA	NA
I/J-1	NA	NA	NA	**37.0**	NA
I/J-3	NA	**27.9**	NA	13.7	NA
I/J-5	NA	NA	NA	**25.6**	NA
J-2	NA	**28.8**	NA	**75.5**	NA
J-3/4	NA	NA	NA	**27.9**	NA
J/K-1/2	NA	20.1	NA	10.3	NA
J/K-2/3	NA	17.1	NA	**70.4**	NA
J/K-4/5	NA	NA	NA	13.3	NA
J/K-5/6	NA	NA	NA	**100**	NA
K-5	NA	NA	NA	**29.5**	NA

Notes: **Bold Values Exceed Cleanup Level**
NA = Not Analyzed
BDL = Below Detection Limit
S = Result Determined by Method of Standard Additions

Cleanup levels for:		
	Antimony	<5.0 mg/kg
	Arsenic	24.2 mg/kg
	Cadmium	0.6 mg/kg
	Chromium	23.9 mg/kg
	Lead	20.6 mg/kg

TABLE 4
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED MARCH 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
A-1	4.7	NA	63.2	**32.1**	NA
A-2/3	2.1	NA	60.7	16.6	NA
A-4	NA	**27.3**	NA	NA	NA
A-5	NA	NA	NA	13.3	NA
A-6[1]	NA	**25.5**	NA	NA	NA
A/B-1[1]	1.9	NA	NA	10.9	NA
A/B-2[1]	**7.1**	NA	62.9	**51.8**	NA
A/B-3/4[1]	1.8	**24.7**	NA	17.9	14.8
A/B-6	NA	22.9	NA	NA	NA
B-4/5	NA	18.2	NA	14.3	13.7
BB/C-1	NA	17.1	NA	20.1	NA
BB/C-2/3	NA	15.4	NA	NA	NA
BB/C-4	NA	16.3	NA	23.1	NA
B/C-6	NA	13.9	NA	NA	NA
B/CC-2/3	NA	13.7	NA	7.5	NA
B/CC-4	NA	15.2	NA	18.4	NA
B/CC-5	NA	18.3	NA	NA	NA
C-5/6	NA	11.4	NA	NA	NA
CC/D-1/2	NA	NA	NA	13.3	NA
CC/D-4	NA	NA	NA	17.6	NA
C/D-5	NA	13.8	NA	17.1	NA
D-4	NA	7.4	NA	NA	NA
DD/E-5	NA	NA	NA	7.9	NA
D/E-4	NA	NA	NA	**42.6**	NA
E-1	NA	NA	NA	NA	BDL (<11.8)
EE/F-2/3	NA	NA	NA	22.7	NA
EE/F-5/6	NA	NA	NA	10.8	NA

TABLE 4 (Continued)
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED MARCH 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
E/FF-2[1]	NA	NA	NA	19.9	NA
F-1[1]	NA	13.4	NA	NA	16.2
F-4/5	NA	10.4	NA	13.2	NA
F-5/66	NA	**29.1**	NA	10.9	NA
FF/G-1/2	NA	NA	NA	10.5	NA
FF/G-3/4	NA	15.1	NA	**27.7**	NA
F/GG-1/2	NA	13.7	NA	NA	NA
F/GG-4/5	NA	NA	NA	23.2	NA
G-2	NA	NA	NA	NA	**30.3**
G/H-1/2	NA	17.5	NA	NA	NA
GG/H-2/33	NA	16.7	NA	NA	NA
H-2	NA	23.7	NA	**32.0**	NA
HH/I-4/5	NA	NA	NA	12.0	NA
H/I-4	NA	NA	NA	11.0	NA
H/II-2/33	NA	19.1	NA	**36.5**	NA
H/II-5	NA	NA	NA	20.0	NA
II/J-1	NA	15.5	NA	22.5	NA
II/J-2/3	NA	11.3	NA	13.6	NA
II/J-3/44	NA	13.1	NA	NA	NA
I/JJ-1	NA	NA	NA	15.7	NA
I/JJ-3/44	NA	13.4	NA	8.2	NA
J-1/2	NA	**38.2**	NA	**28.4**	NA
J-2/3	NA	17.2	NA	9.5	NA
J-4	NA	7.6	NA	NA	NA

TABLE 4 (Continued)
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED MARCH 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Barium (Ba) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
JJ/K-5	NA	NA	NA	**26.4**	NA
J/KK-2/3	NA	NA	NA	11.1	NA
J/KK-5/6	NA	NA	NA	9.0	NA
K-4/5	NA	NA	NA	12.7	NA

Notes: (1) Values shown are average of sample and field duplicate at sampling point.
Bold Values Exceed Cleanup Level
NA = Not Analyzed
BDL = Below Detection Limit

Cleanup levels for:		
	Antimony	<5.0 mg/kg
	Arsenic	24.2 mg/kg
	Barium	160.45 mg/kg
	Chromium	23.9 mg/kg
	Lead	20.6 mg/kg

TABLE 5
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED MAY 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
A-2	NA	NA	12.0	NA
A-3[1]	NA	12.3	NA	NA
A-5	NA	16.0	NA	NA
AA/B-1	NA	NA	8.5	NA
AA/B-6	NA	16.5	NA	NA
A/B-1/2	1.8	NA	15.9	NA
A/B-2/3	0.63	NA	5.2	NA
A/B-3	NA	**36.8**	NA	NA
A/B-3 DUP1	NA	22.5	NA	NA
A/B-3 DUP2	NA	**29.8**	NA	NA
A/B-4	NA	13.0	NA	NA
A/BB-2[1]	1.4	NA	15.1	NA
A/BB-33/4	NA	13.9	NA	NA
A/BB-5	NA	24.1	NA	NA
DD/E-3/4	NA	NA	11.8	NA
DD/E-4/5	NA	NA	5.1	NA
E-4	NA	NA	10.5	NA
E/FF-6	NA	**24.8**	NA	NA
F-3/4	NA	NA	10.1	NA
F-5	NA	21.8	NA	NA
FF/G-6	NA	**24.4**	NA	NA
F/G-3	NA	NA	**25.8**	NA
F/G-4	NA	NA	8.6	NA
F/GG-2/3	NA	NA	NA	11.2

TABLE 5 (CONTINUED)
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED MAY 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Antimony (Sb) (mg/kg)	Arsenic (As) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
G-1/2	NA	NA	NA	**24.6**
GG/H-2/3	NA	NA	NA	**42.0**
GG/H-2/3 DUP1	NA	NA	NA	**30.6**
GG/H-2/3 DUP2	NA	NA	NA	**35.0**
G/HH-1/2	NA	NA	**24.2**	NA
H-2/3	NA	NA	18.7	NA
HH/I-1/2	NA	NA	7.7	NA
II/J-5	NA	NA	6.5	NA
I/JJ-2	NA	9.9	6.9	NA
J-1	NA	**25.3**	19.9	NA
J-4/5	NA	NA	6.3	NA
J-5/6	NA	NA	17.0	NA
JJ/K-2	NA	**26.1**	22.6	NA
J/KK-4/5	NA	NA	14.9	NA
J/KK-5/6	NA	NA	15.8	NA

Notes: (1) Values shown are average of sample and field duplicate at sampling point
Bold Values Exceed Cleanup Level
NA = Not Analyzed
BDL = Below Detection Limit
DUP = Laboratory Duplicate

Cleanup levels for:		
	Antimony	<5.0 mg/kg
	Arsenic	24.2 mg/kg
	Chromium	23.9 mg/kg
	Lead	20.6 mg/kg

TABLE 6
SUMMARY OF NON-AQUEOUS ANALYTICAL RESULTS FOR CLOSURE VERIFICATION SAMPLING CONDUCTED JUNE 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Arsenic (As) (mg/kg)	Chromium (Cr) (mg/kg)	Lead (Pb) (mg/kg)
AA/B-2/3	7.1	NA	NA
AA/B-3/4(1)	9.3	NA	NA
A/BB-2/3	13.7	NA	NA
E/F-5/66	12.1	NA	NA
F-5/6	18.8	NA	NA
FF/G-3	NA	6.2	NA
F/G-2/3	NA	12.6	NA
F/G-5/66	15.8	NA	NA
F/GG-1	NA	NA	17.4
F/GG-3/4	NA	7.0	NA
G-2	NA	NA	16.1
GG/H-1/2	NA	NA	11.5
GG/H-3	NA	NA	15.6
G/H-1	NA	19.3	NA
G/H-2	NA	10.4	13.1
H-2	NA	5.2	NA
H/I-2	NA	6.7	NA
H/II-33/4	NA	14.3	NA
II/J-2	NA	5.4	NA
I/JJ-1(1)	21.5	NA	NA
JJ/K-1/2	14.4	NA	NA
J/KK-1/2	13.7	NA	NA
J/KK-2/3	**44.1**	NA	NA
J/KK-2/3	**44.1**	NA	NA

Notes: (1) Values shown are average of sample and field duplicate at sampling point.
Bold Values Exceed Cleanup Level
NA = Not Analyzed
BDL = Below Detection Limit

Cleanup levels for:		
	Arsenic	24.2 mg/kg
	Chromium	23.9 mg/kg
	Lead	20.6 mg/kg

TABLE 7
SUMMARY OF RESULTS FOR SAMPLE J/KK - 2/3 FROM CLOSURE VERIFICATION SAMPLING CONDUCTED JUNE 1994 TEMPORARY SLUDGE HOLDING AREA - DUPONT CIRCLEVILLE

SAMPLE NO.	Arsenic (As) (mg/kg)
J/KK-2/3	44.1
J/KK-2/3 (DUP1)	22.8
J/KK-2/3 (DUP2)	32.6
J/KK-2/3 (DUP3)	23.5
J/KK-2/3 (DUP4)	21.1
J/KK-2/3 (DUP5)	2.7
J/KK-2/3 (DUP6)	3.0
J/KK-2/3 (DUP7)	24.3
J/KK-2/3 (DUP8)	18.8
J/KK-2/3 (DUP9)	31.4
J/KK-2/3 (DUP10)	32.6
J/KK-2/3 (DUP11)	25.1
J/KK-2/3 (DUP12)	25.1
J/KK-2/3 (DUP13)	20.3
J/KK-2/3 (DUP14)	20.7
J/KK-2/3 (DUP15)	26.3
J/KK-2/3 (DUP16)	26.4
J/KK-2/3 (DUP17)	25.9
J/KK-2/3 (DUP18)	22.6
J/KK-2/3 (DUP19)	19.8
J/KK-2/3 (DUP20)	28.4
J/KK-2/3 (DUP21)	24.7
J/KK-2/3 (DUP22)	32.4
J/KK-2/3 (DUP23)	15.2
J/KK-2/3 (DUP24)	30.4
Average Value	24.0

Note: DUP = Laboratory Duplicate
Cleanup level for Arsenic = 24.2 mg/kg

FIGURES

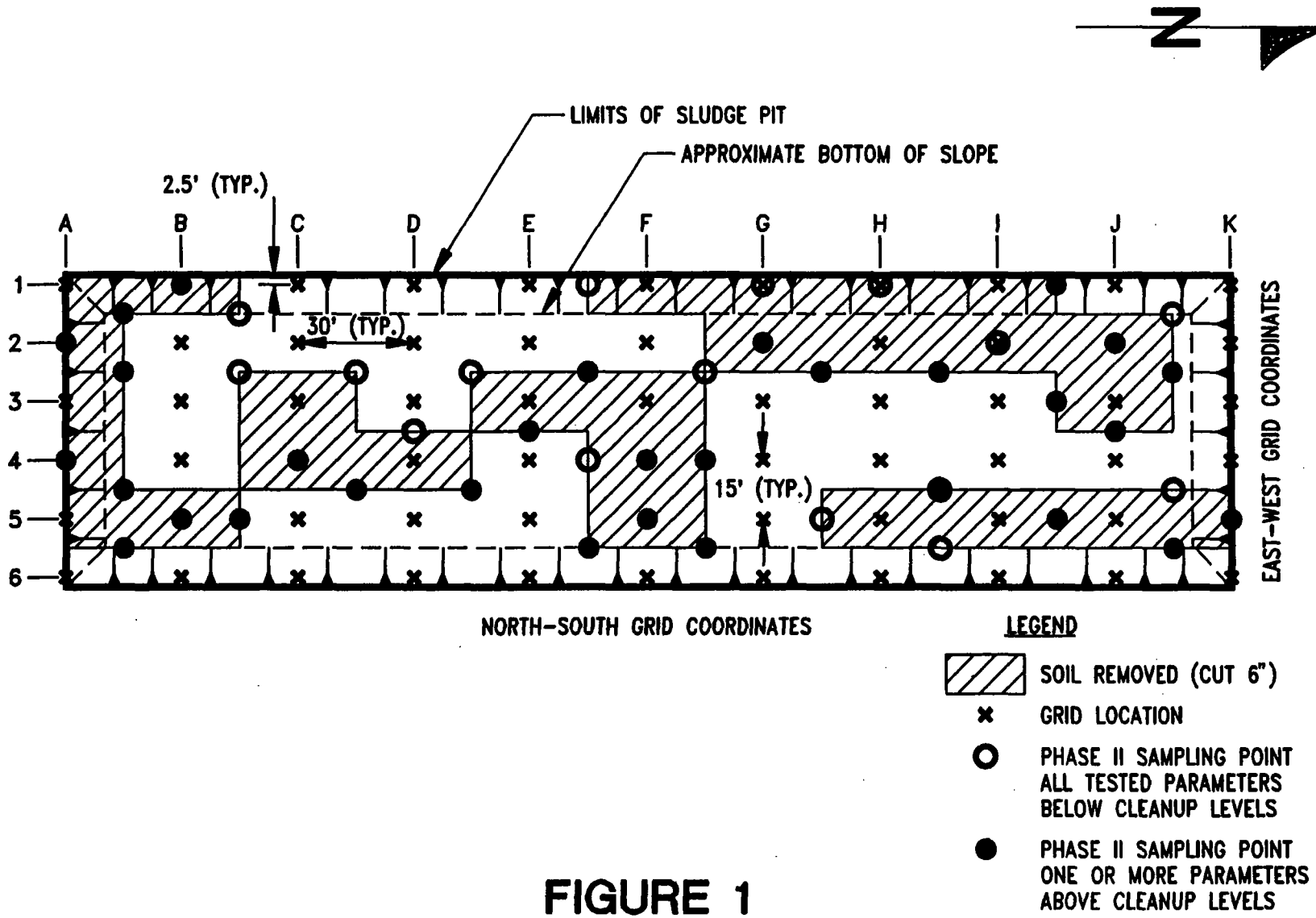


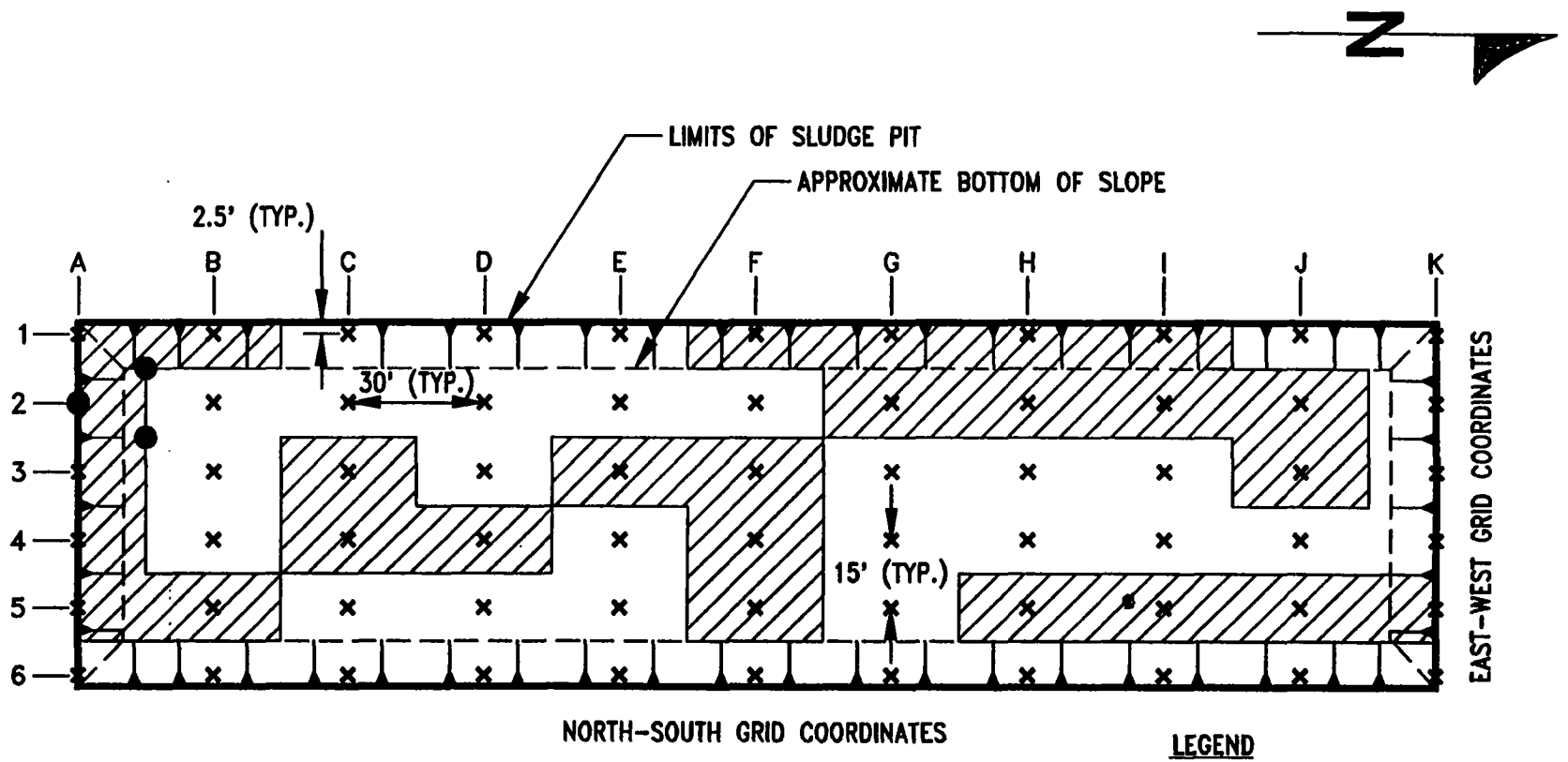
FIGURE 1

PHASE II CONFIRMATORY SAMPLING GRID

DECEMBER 1993

SCALE: 1" = 40'

CADD FILE: 20908F01.DWG



ANTIMONY LEVELS

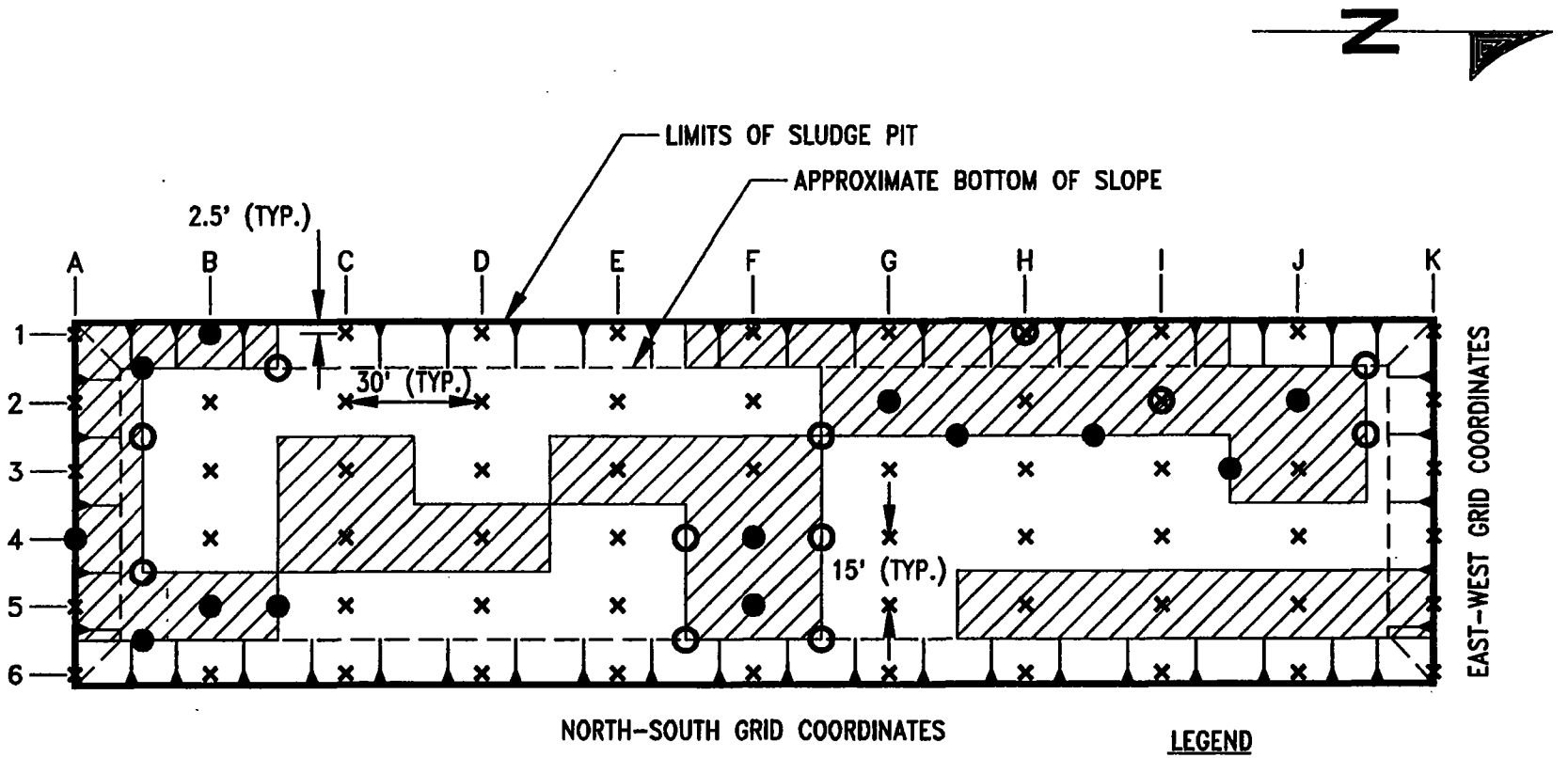
LEGEND

- SOIL REMOVED (CUT 6")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

FIGURE 1A
PHASE II CONFIRMATORY SAMPLING GRID
DECEMBER 1993

SCALE: 1" = 40'

CADD FILE: 20[illegible] DWG



LEGEND

- SOIL REMOVED (CUT 6")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

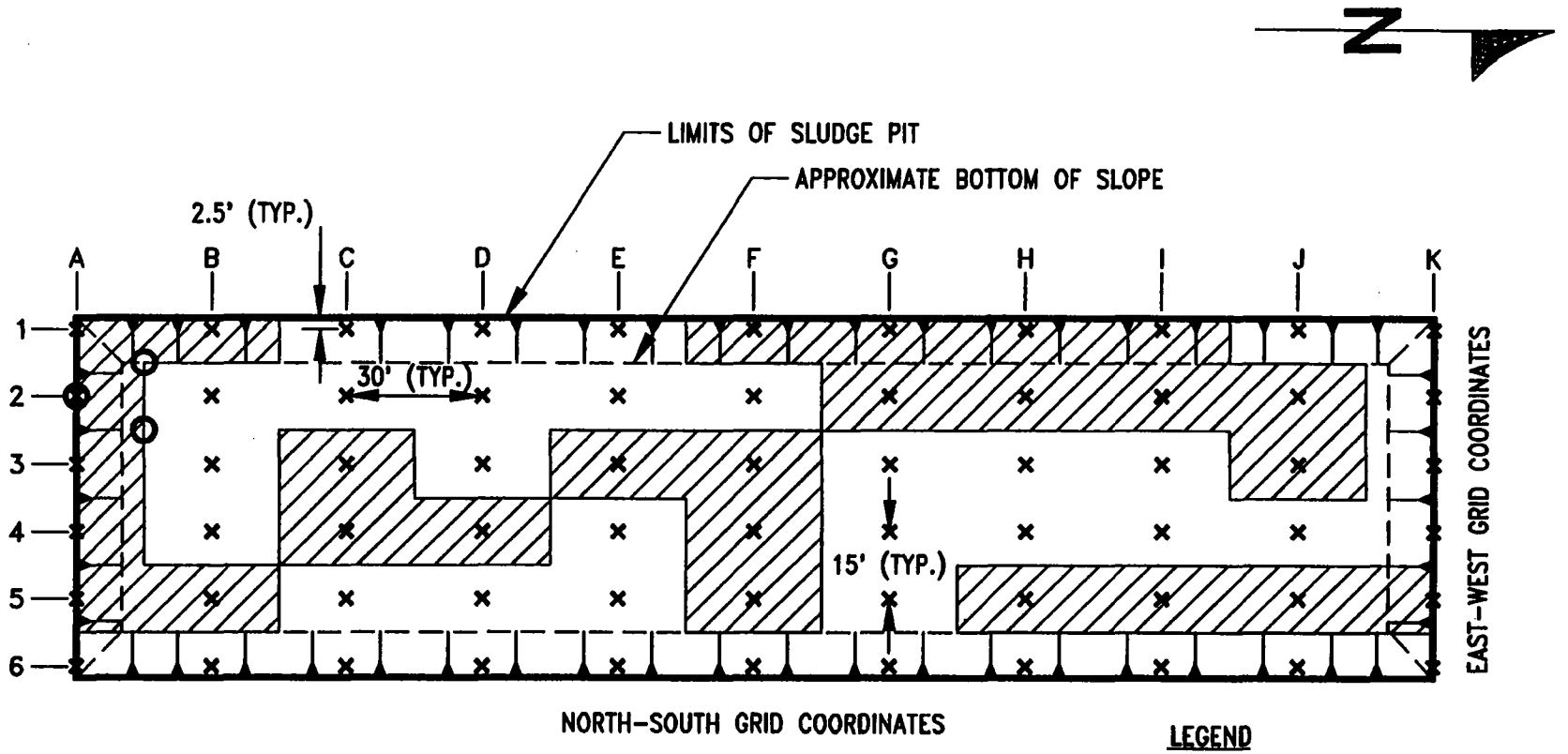
ARSENIC LEVELS

FIGURE 1B

PHASE II CONFIRMATORY SAMPLING GRID
DECEMBER 1993

SCALE: 1" = 40'

CADD FILE: 20908E05.DWG



CADMIUM LEVELS

LEGEND

- SOIL REMOVED (CUT 6")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

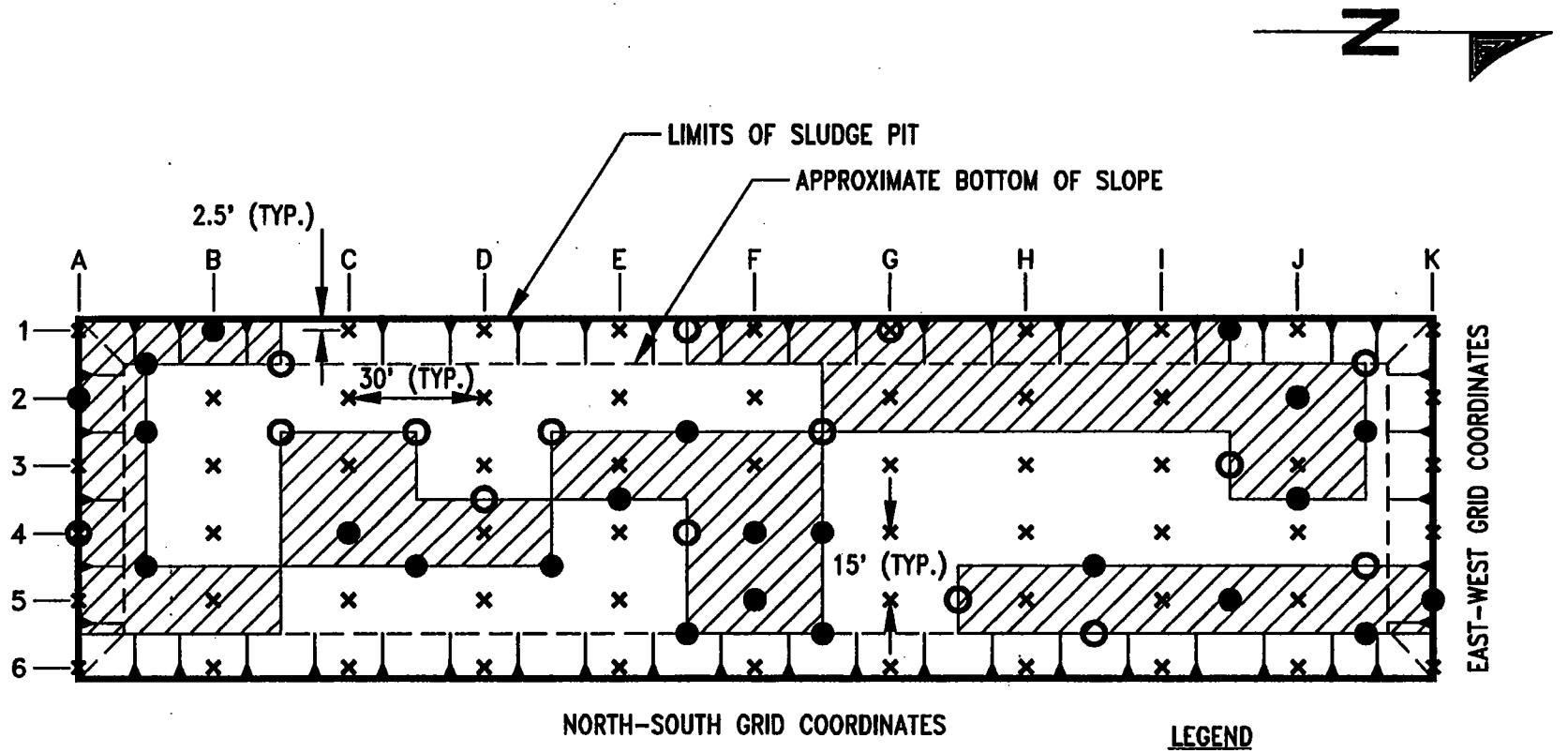
FIGURE 1C

PHASE II CONFIRMATORY SAMPLING GRID

DECEMBER 1993

SCALE: 1" = 40'

CADD FILE: 20[illegible].DWG



CHROMIUM LEVELS

LEGEND

- SOIL REMOVED (CUT 6")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

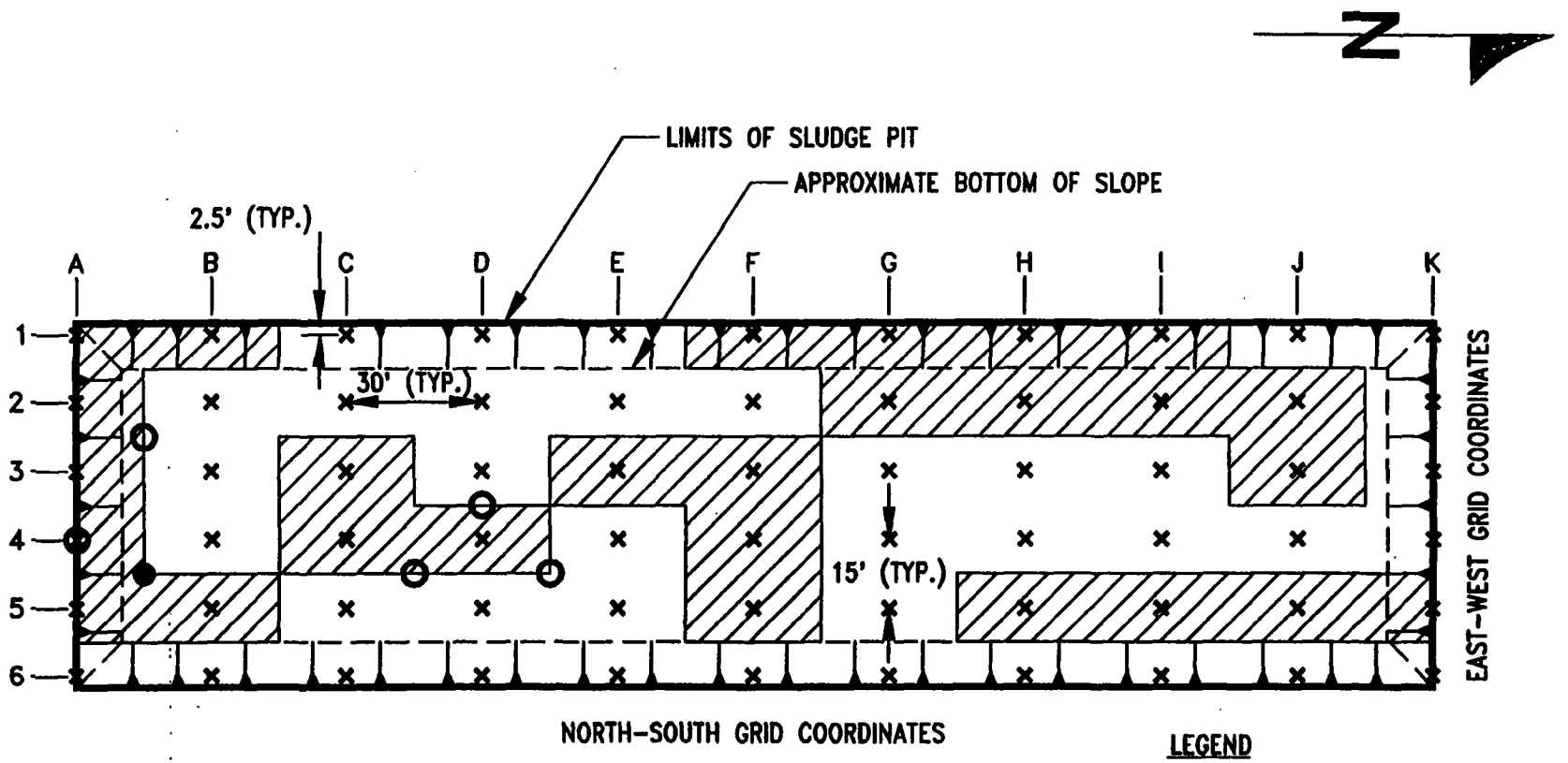
FIGURE 1D

PHASE II CONFIRMATORY SAMPLING GRID

DECEMBER 1993

SCALE: 1" = 40'

CADD FILE: 20808F07.DWG



LEGEND

- SOIL REMOVED (CUT 6")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

LEAD LEVELS

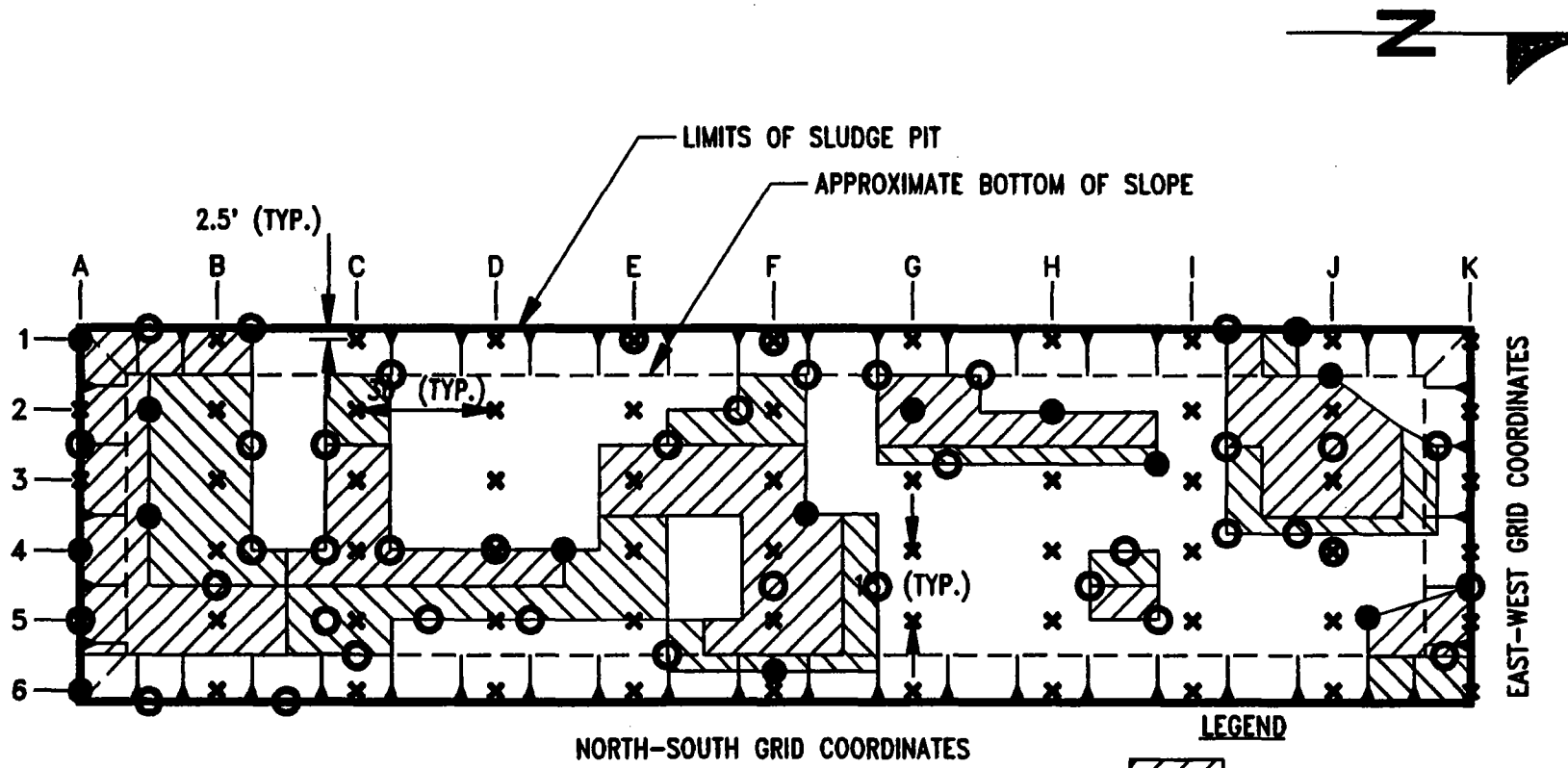
FIGURE 1E

PHASE II CONFIRMATORY SAMPLING GRID

DECEMBER 1993

SCALE: 1" = 40'

CADD FILE: 2020BE08.DWG



LEGEND

- SOIL REMOVED (CUT 12")
- SOIL REMOVED (CUT 18")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT ALL TESTED PARAMETERS BELOW CLEANUP LEVELS
- ● PHASE II SAMPLING POINT ONE OR MORE PARAMETERS ABOVE CLEANUP LEVELS

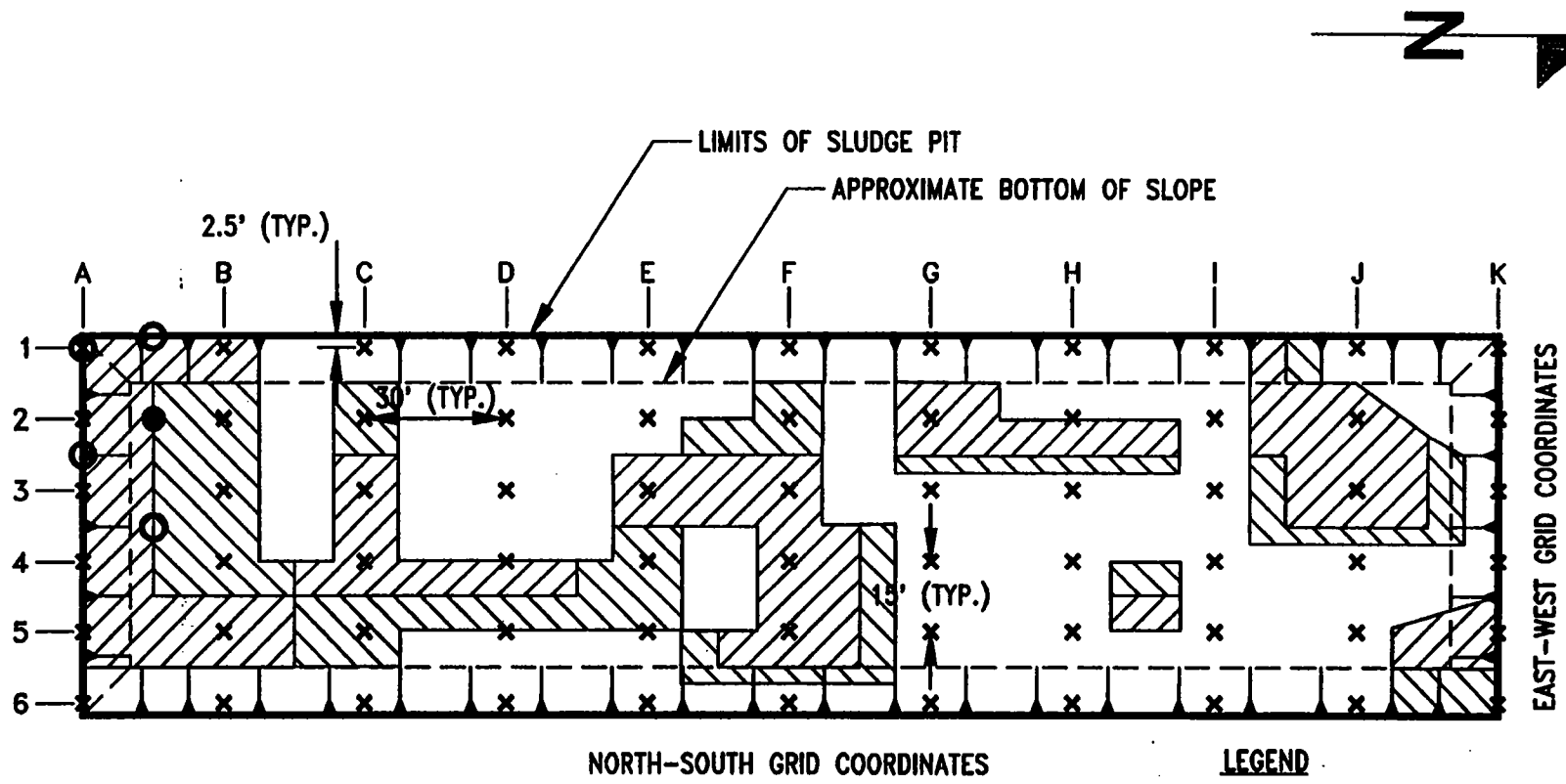
FIGURE 2

PHASE II CONFIRMATORY SAMPLING GRID

MARCH 1994

SCALE: 1" = 40'

CADD FILE: 20908F02.DWG



ANTIMONY LEVELS

LEGEND

- SOIL REMOVED (CUT 12")
- SOIL REMOVED (CUT 18")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

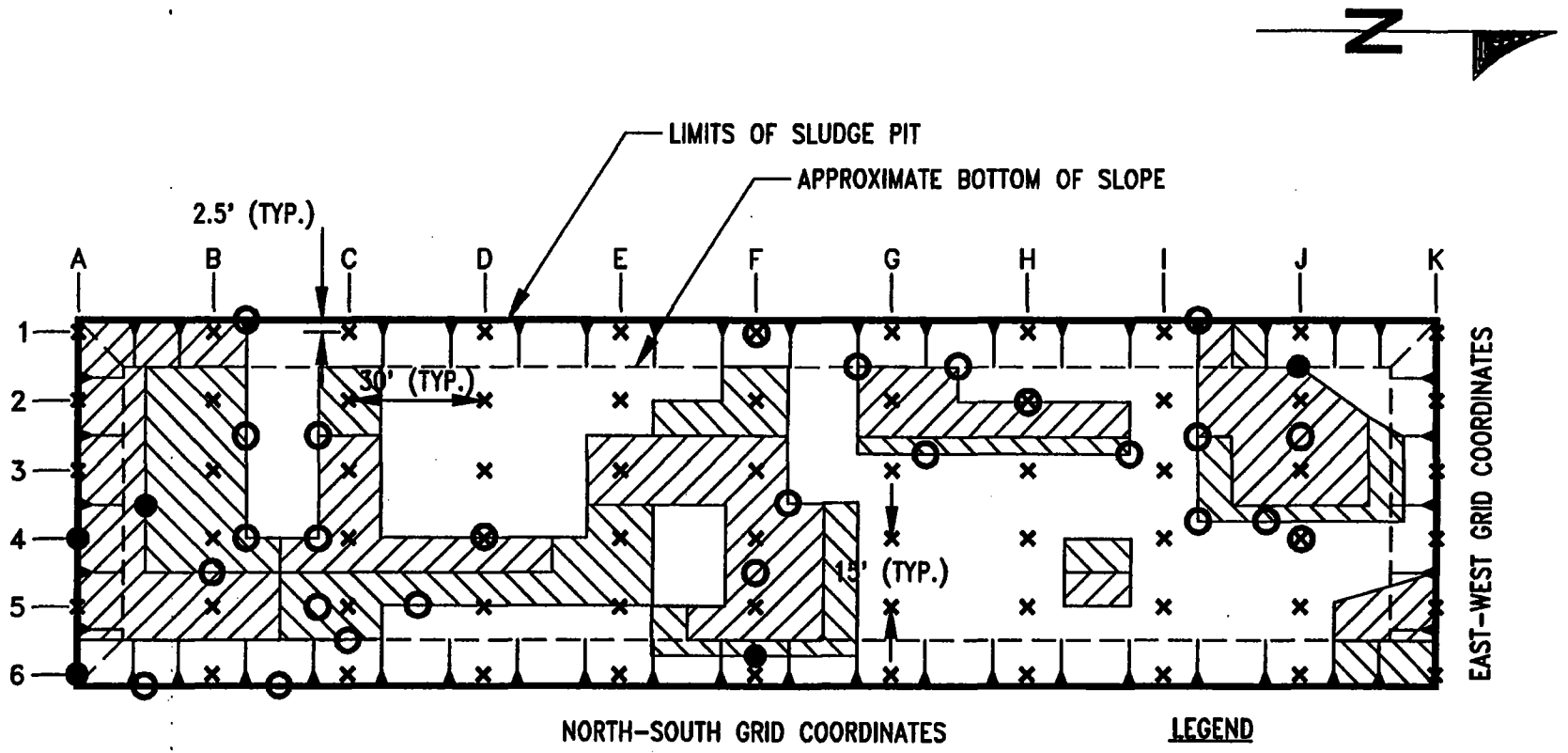
FIGURE 2A

PHASE II CONFIRMATORY SAMPLING GRID

MARCH 1994

SCALE: 1" = 40'

CADD FILE: 20[illegible].DWG



ARSENIC LEVELS

LEGEND

- SOIL REMOVED (CUT 12")
- SOIL REMOVED (CUT 18")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

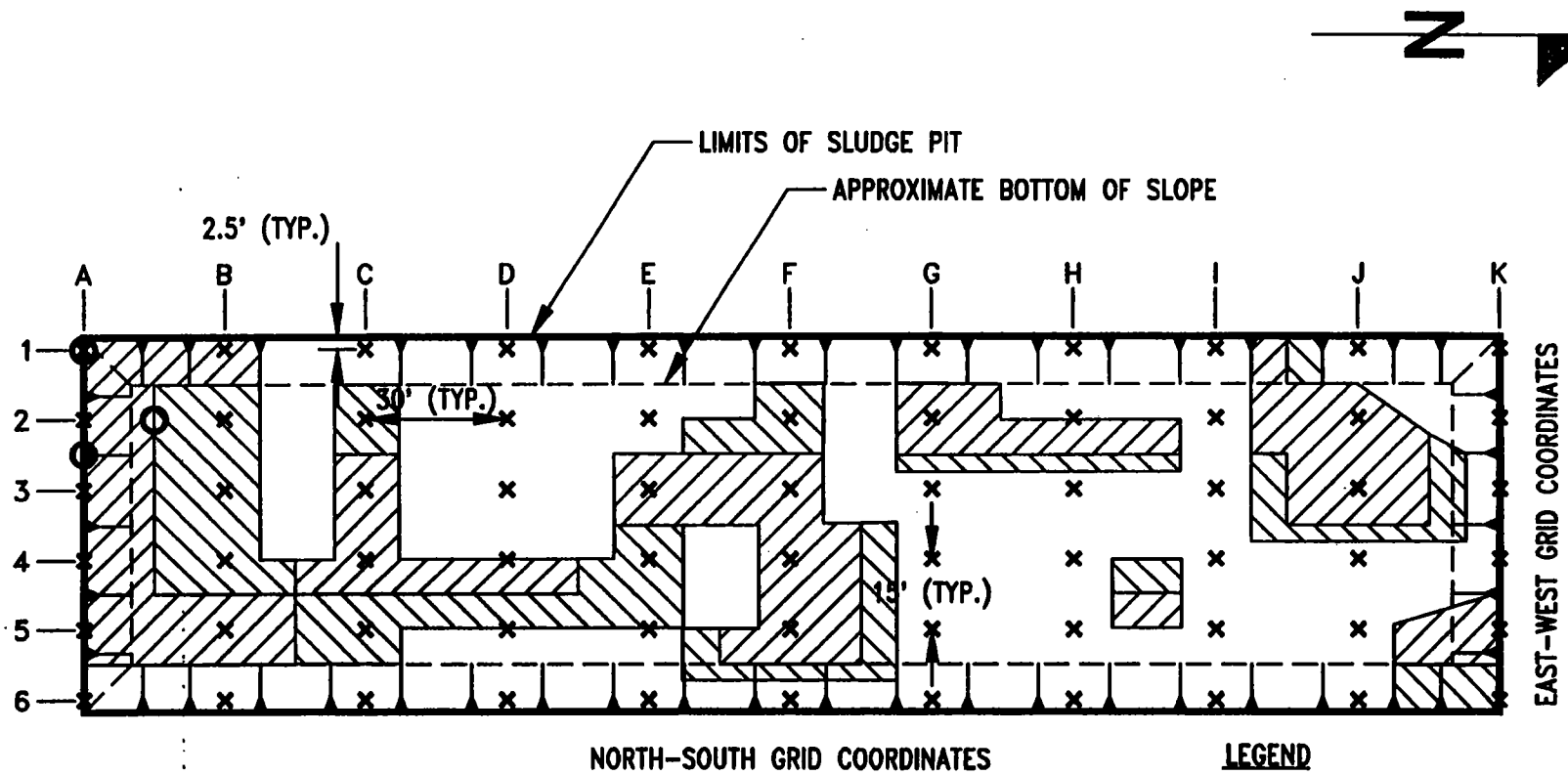
FIGURE 2B

PHASE II CONFIRMATORY SAMPLING GRID

MARCH 1994

SCALE: 1" = 40'

CADD FILE: 20908F10.DWG



LEGEND

- SOIL REMOVED (CUT 12")
- SOIL REMOVED (CUT 18")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

BARIUM LEVELS

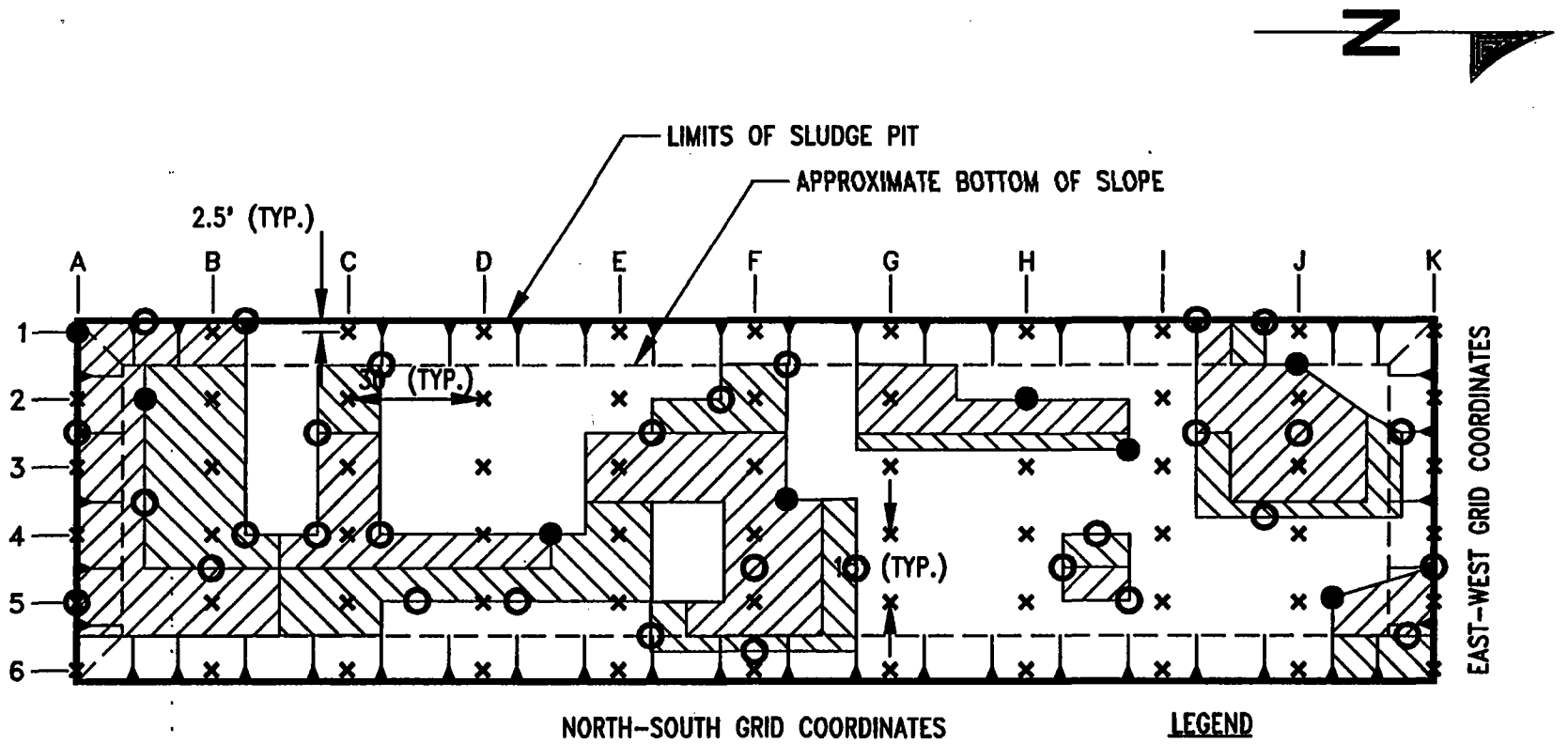
FIGURE 2C

PHASE II CONFIRMATORY SAMPLING GRID

MARCH 1994

SCALE: 1" = 40'

CADD FILE: 20[illegible].DWG



CHROMIUM LEVELS

LEGEND

- SOIL REMOVED (CUT 12")
- SOIL REMOVED (CUT 18")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

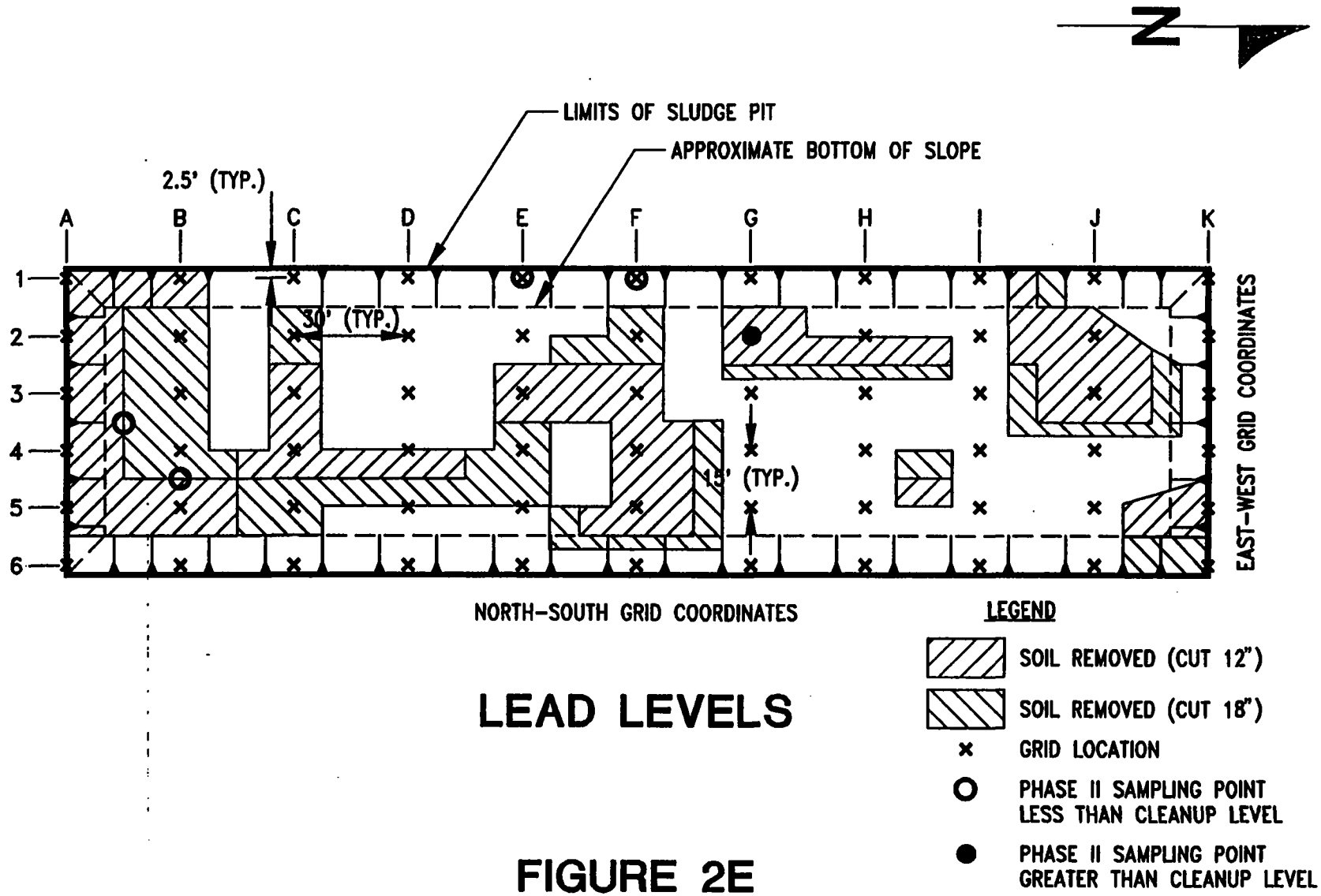
FIGURE 2D

PHASE II CONFIRMATORY SAMPLING GRID

MARCH 1994

SCALE: 1" = 40'

CADD FILE: 20908F12.DWG



LEAD LEVELS

FIGURE 2E

PHASE II CONFIRMATORY SAMPLING GRID

MARCH 1994

SCALE: 1" = 40'

CADD FILE: 20[illegible].DWG

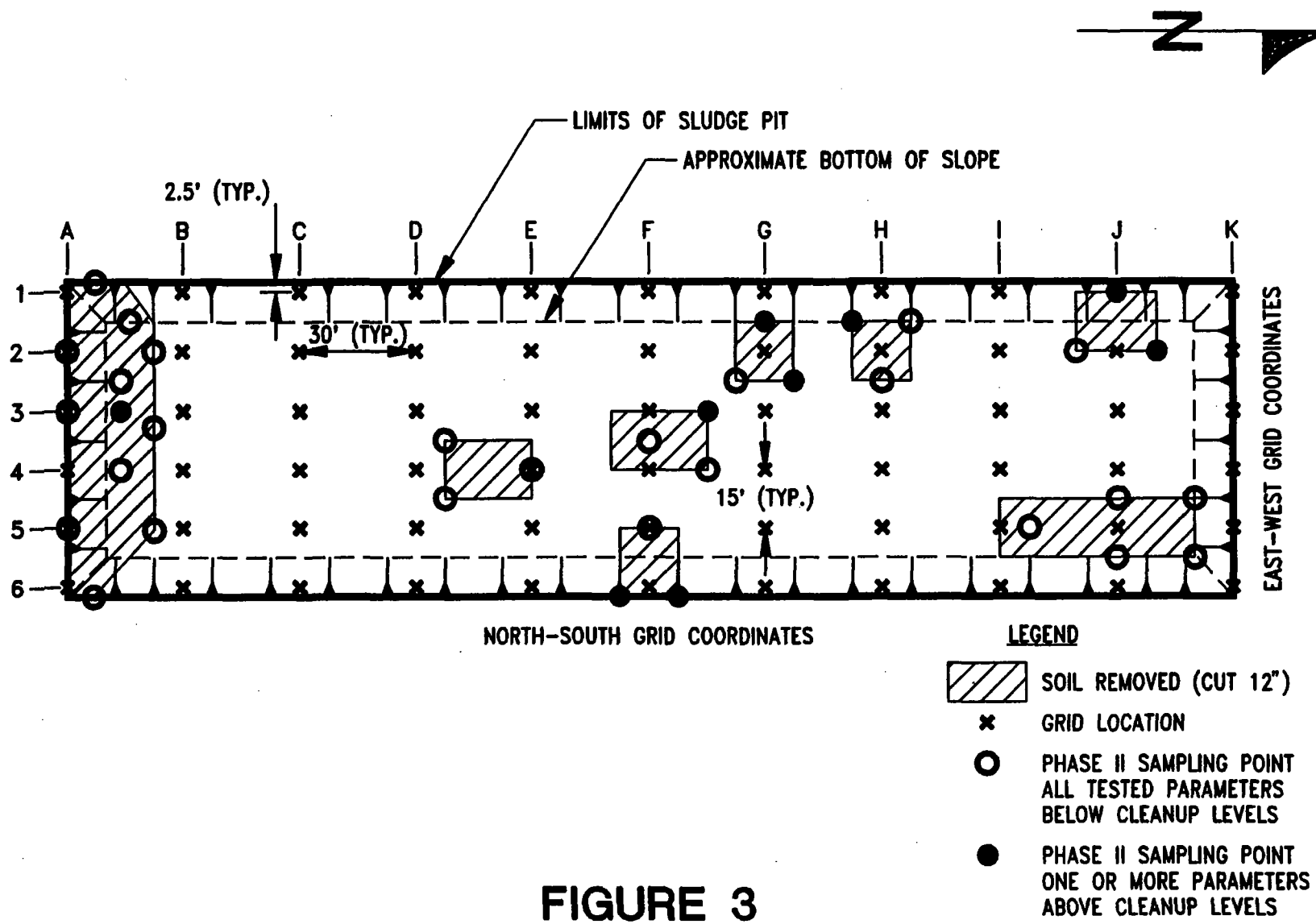


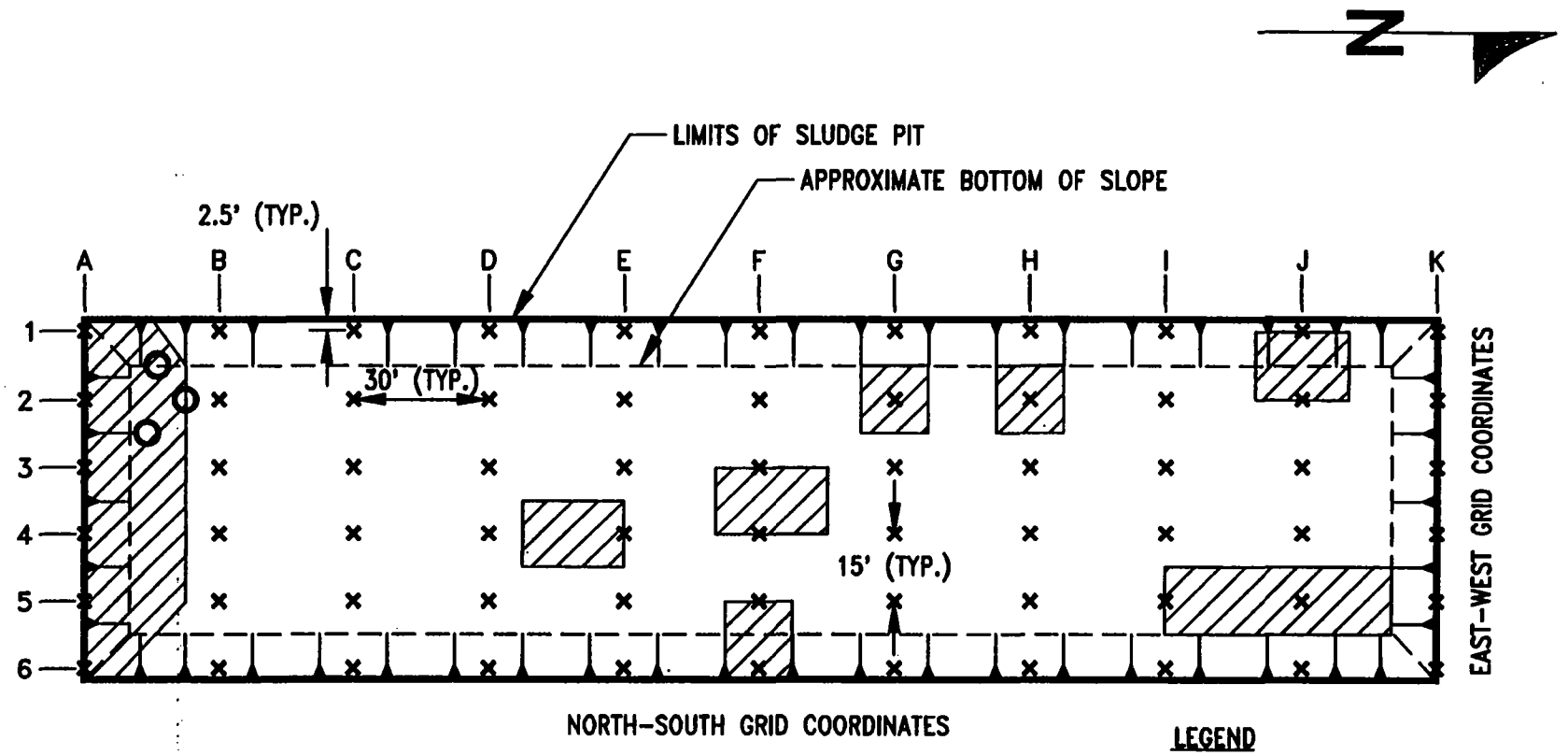
FIGURE 3

PHASE II CONFIRMATORY SAMPLING GRID

MAY 1994

SCALE: 1" = 40'

CADD FILE: 20908F03.DWG



ANTIMONY LEVELS

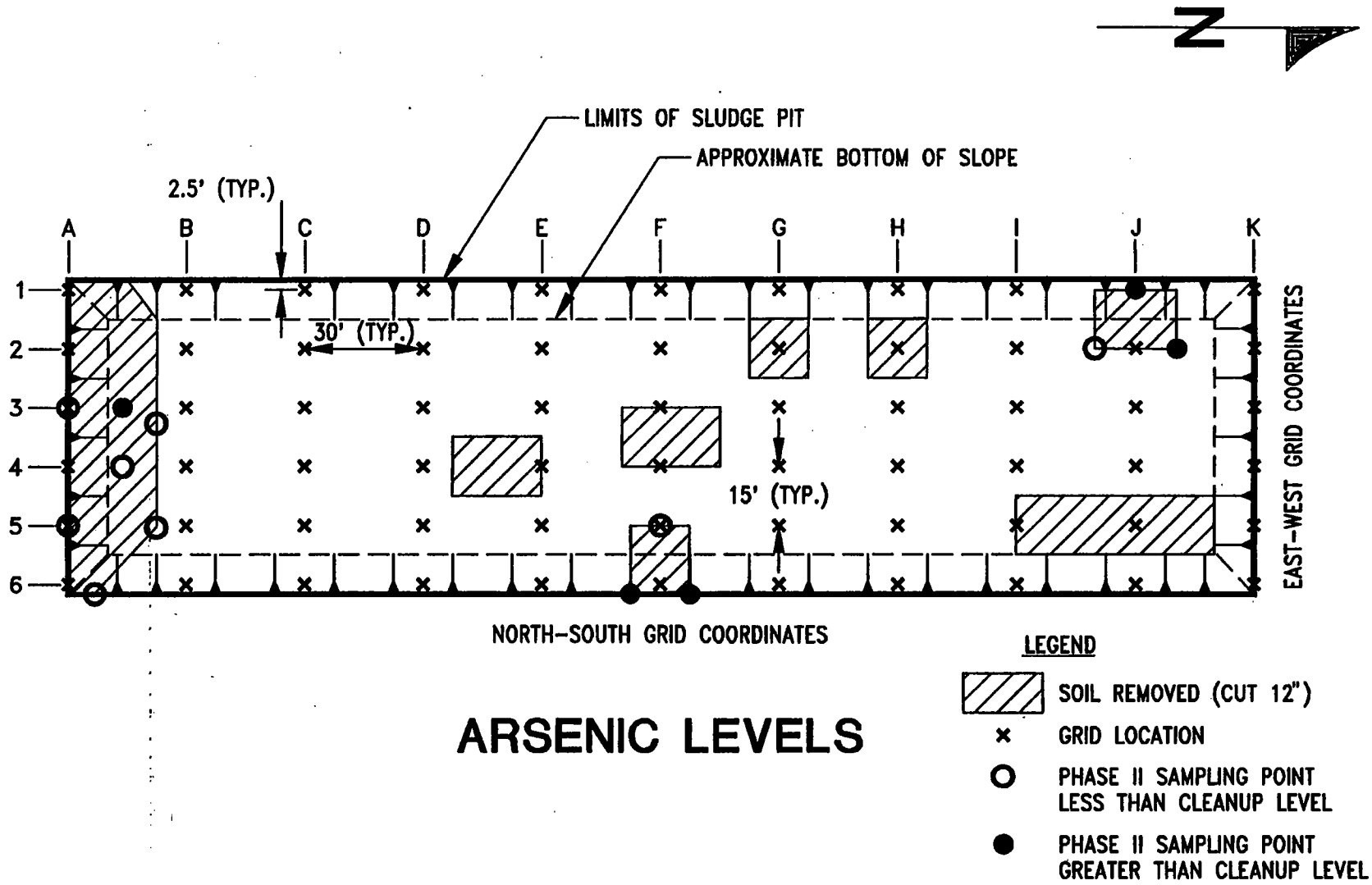
LEGEND

- SOIL REMOVED (CUT 12")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVEL
- ● PHASE II SAMPLING POINT GREATER THAN CLEANUP LEVEL

FIGURE 3A
PHASE II CONFIRMATORY SAMPLING GRID
MAY 1994

SCALE: 1" = 40'

CADD FILE: 20[illegible].DWG



ARSENIC LEVELS

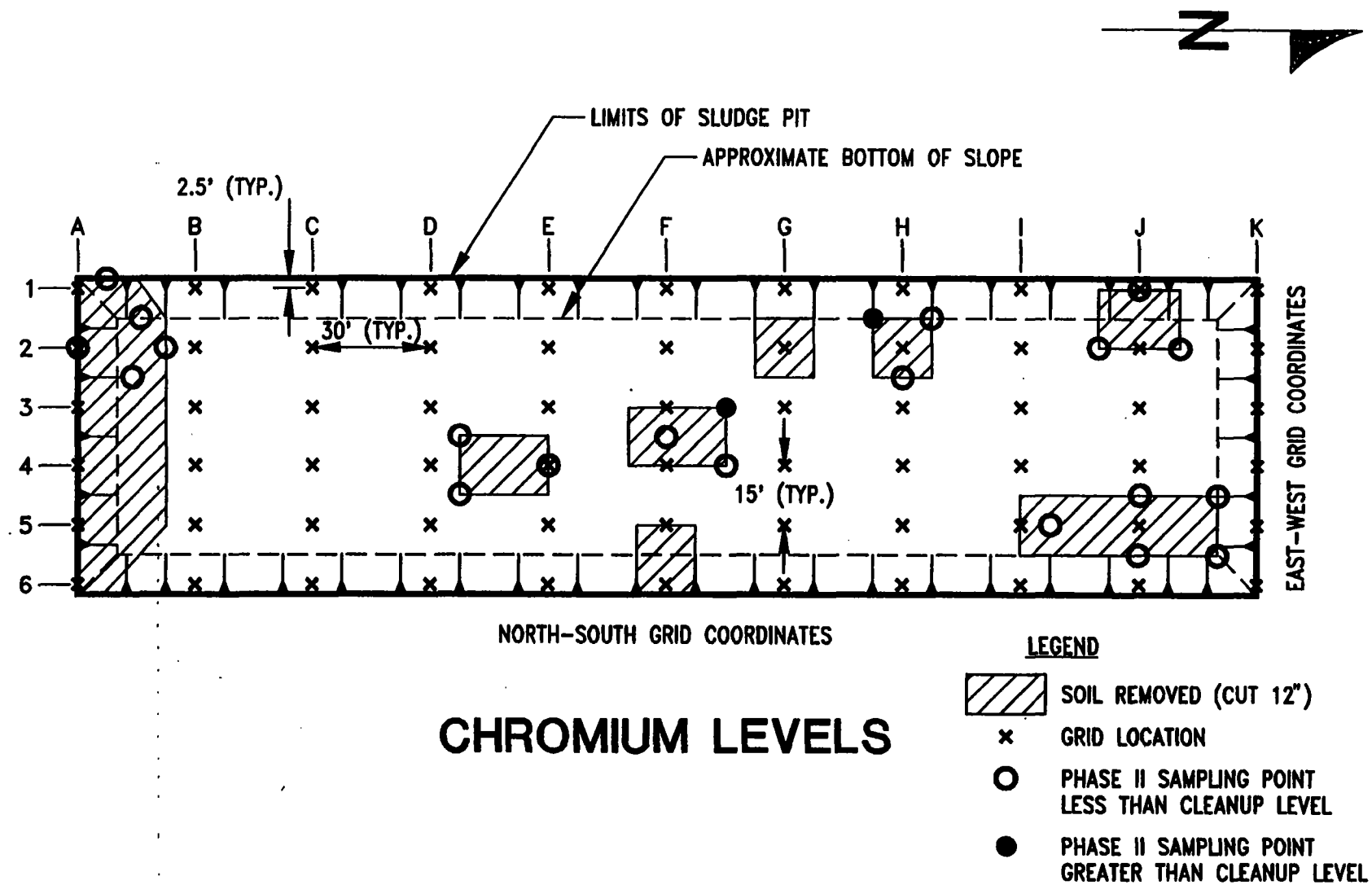
FIGURE 3B

PHASE II CONFIRMATORY SAMPLING GRID

MAY 1994

SCALE: 1" = 40'

CADD FILE: 20908F15.DWG

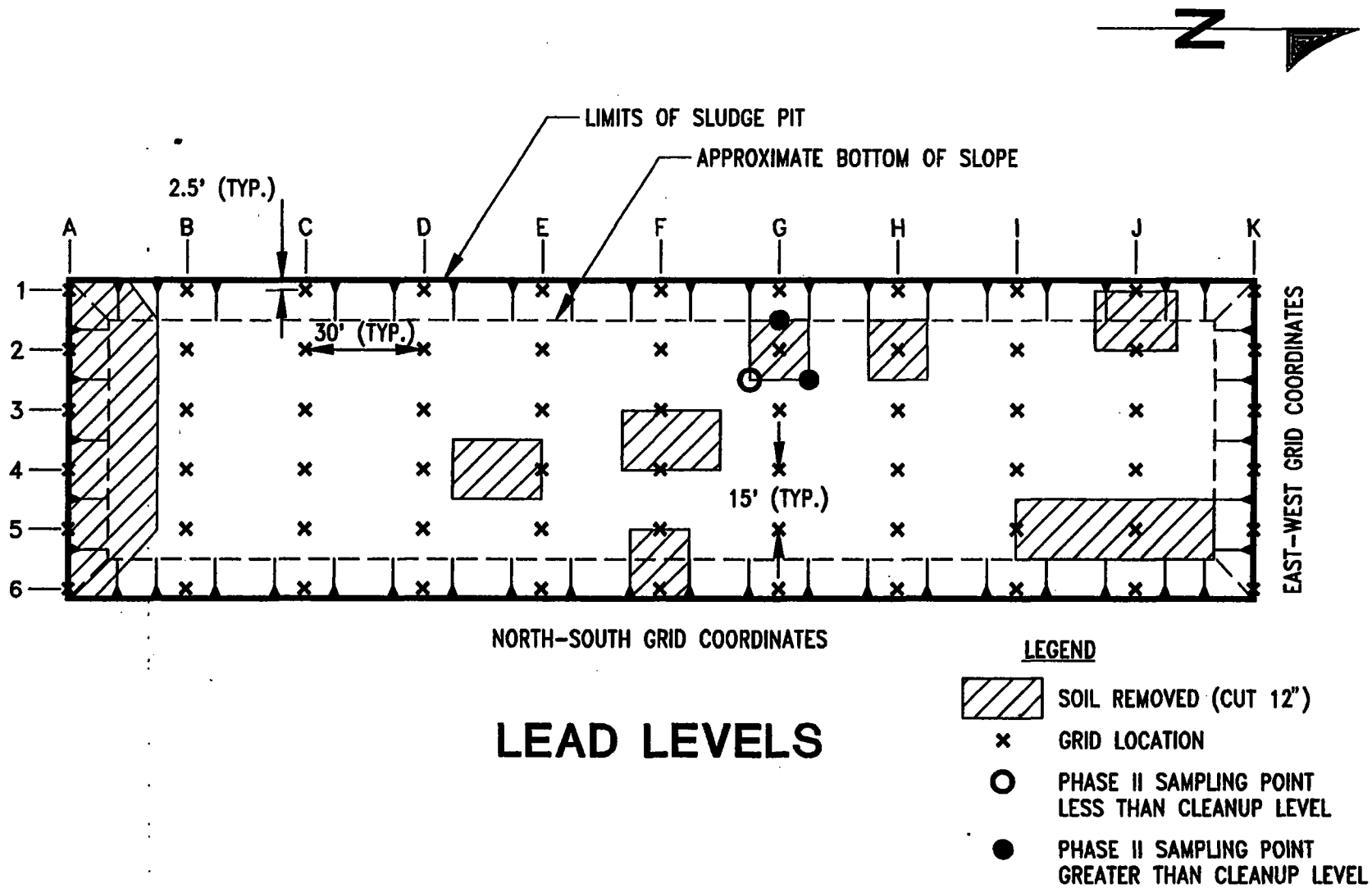


CHROMIUM LEVELS

FIGURE 3C
PHASE II CONFIRMATORY SAMPLING GRID
MAY 1994

SCALE: 1" = 40'

CADD FILE: 2090[illegible].DWG



LEAD LEVELS

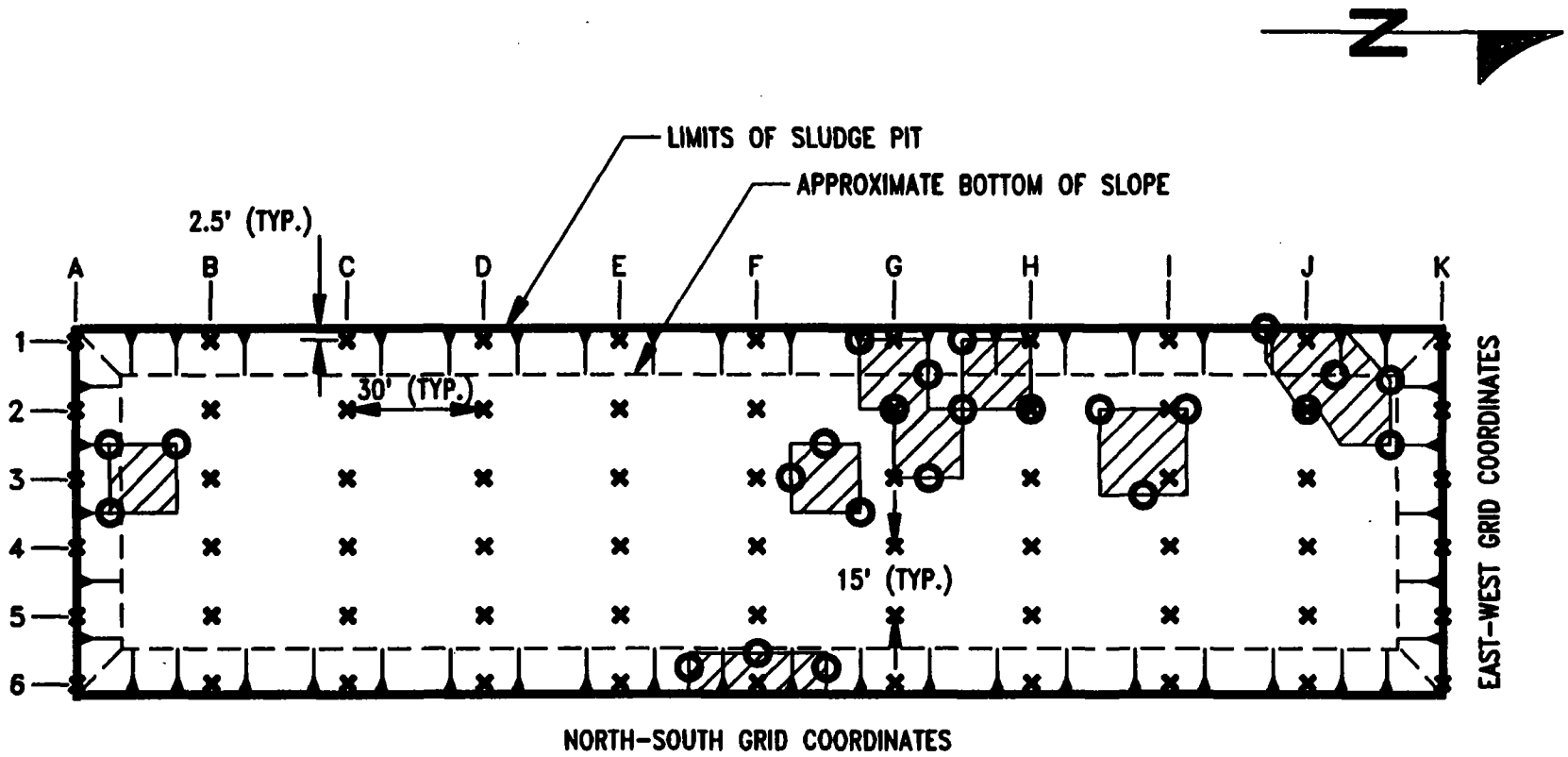
FIGURE 3D

PHASE II CONFIRMATORY SAMPLING GRID

MAY 1994

SCALE: 1" = 40'

CADD FILE: 20908F17.DWG



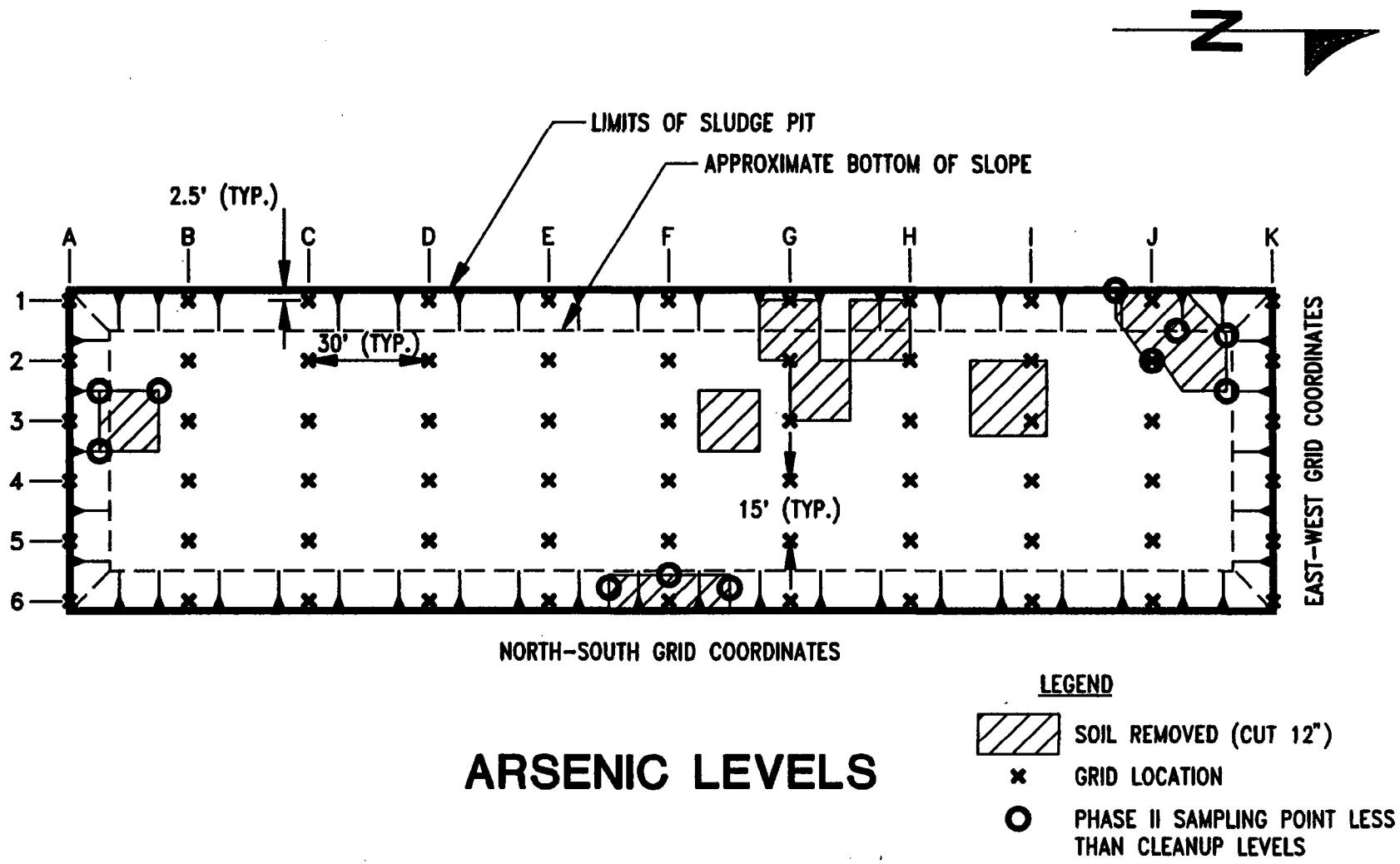
LEGEND

- SOIL REMOVED (CUT 12")
- GRID LOCATION
- PHASE II SAMPLING POINT ALL TESTED PARAMETERS BELOW CLEANUP LEVELS

FIGURE 4
PHASE II CONFIRMATORY SAMPLING GRID
JUNE 1994

SCALE: 1" = 40'

CADD FILE: J8F18.DWG



ARSENIC LEVELS

FIGURE 4A
PHASE II CONFIRMATORY SAMPLING GRID
JUNE 1994

SCALE: 1" = 40'

CADD FILE: 20908F20.DWG

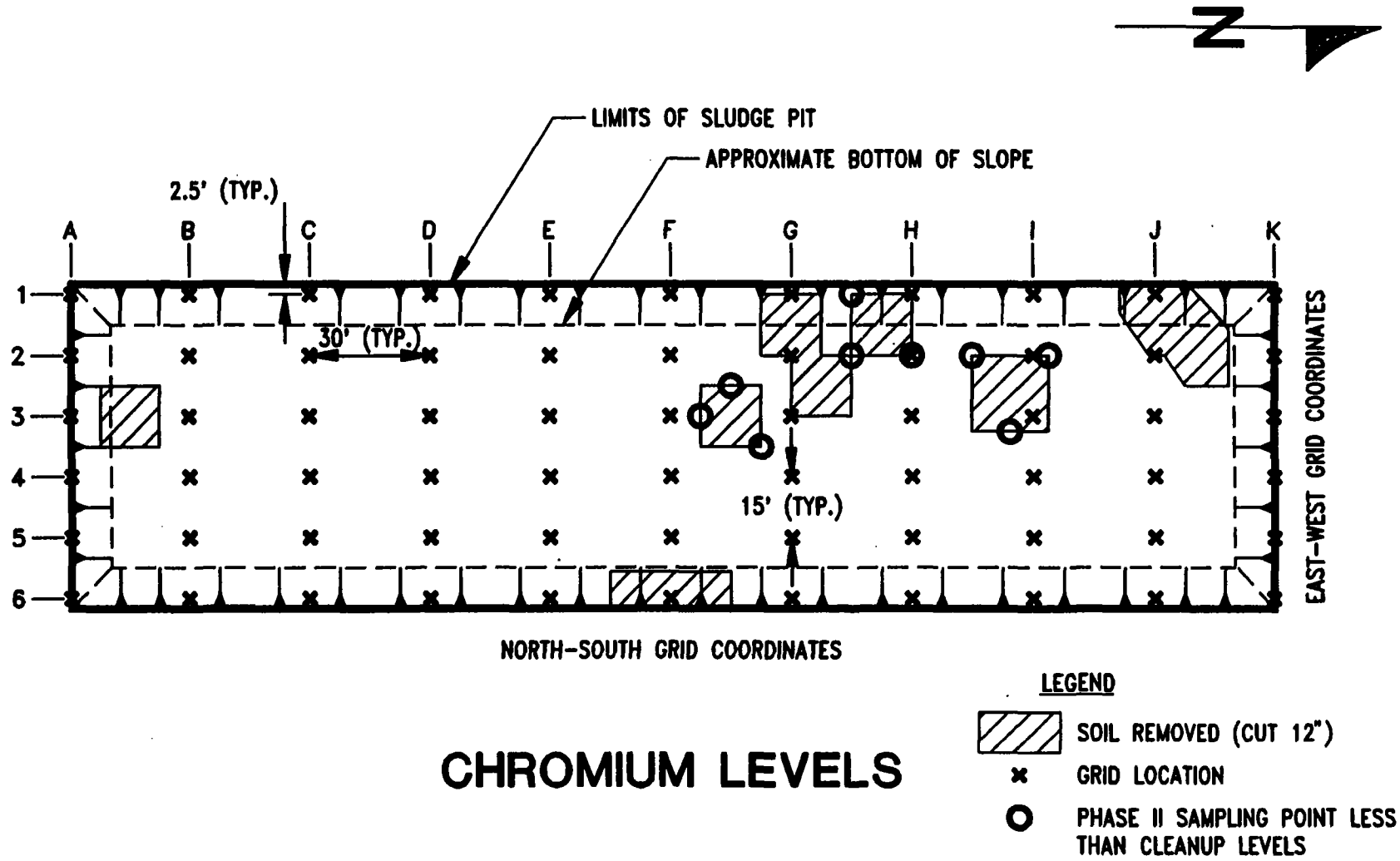
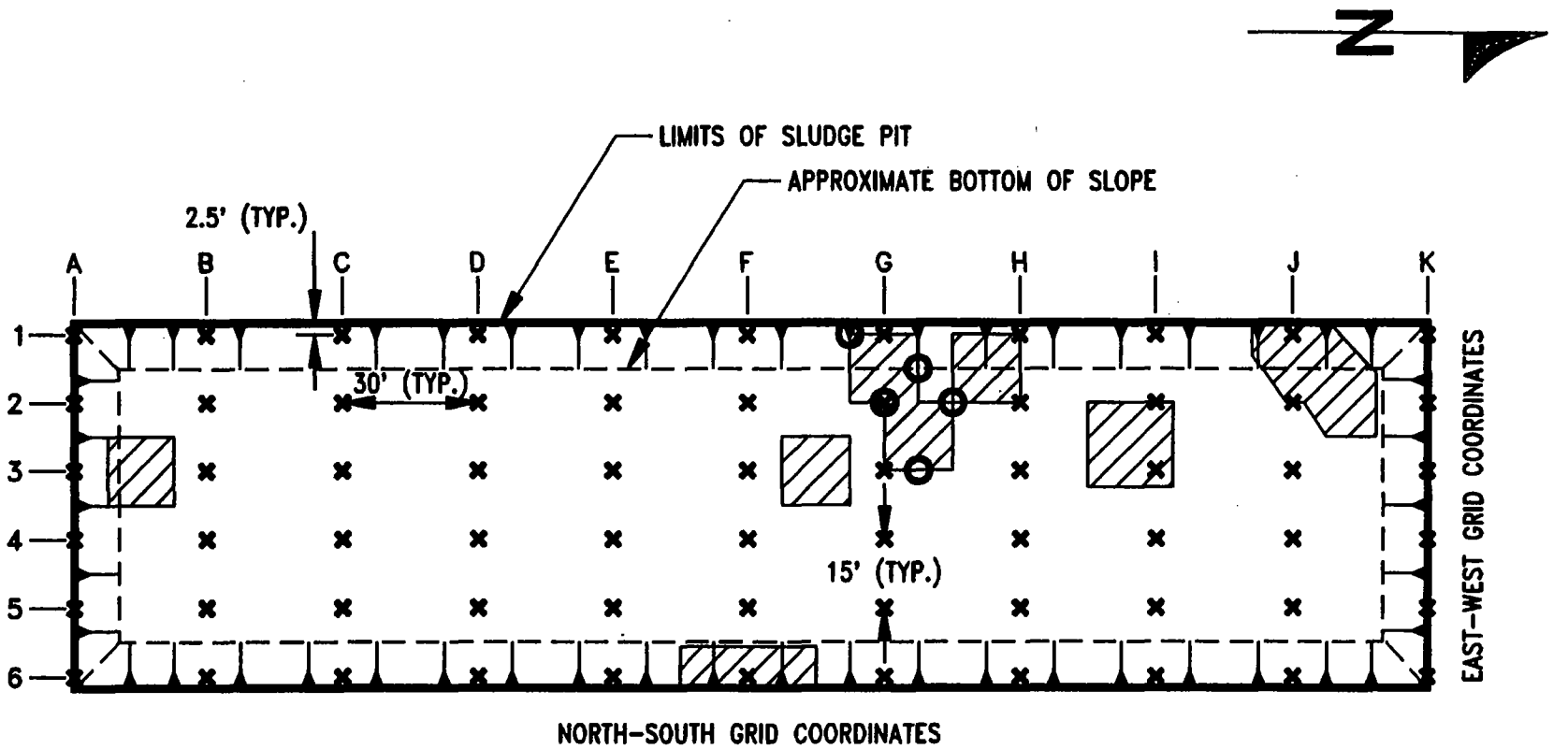


FIGURE 4B
PHASE II CONFIRMATORY SAMPLING GRID
JUNE 1994

SCALE: 1" = 40'

CADD FILE: JOF19.DWG



LEGEND

- SOIL REMOVED (CUT 12")
- × GRID LOCATION
- ○ PHASE II SAMPLING POINT LESS THAN CLEANUP LEVELS

LEAD LEVELS

FIGURE 4C
PHASE II CONFIRMATORY SAMPLING GRID
JUNE 1994

SCALE: 1" = 40'

CADD FILE: 20908F21.DWG

May 1995

REPORT OF SUPPLEMENTAL CLOSURE ACTIVITIES FOR THE TEMPORARY SLUDGE HOLDING AREA

Prepared for:

E.I. DuPont de Nemours & Company, Inc.
Circleville, Ohio

U.S. EPA Identification No. OHD 004287322

Prepared by

Baker

Baker

Baker and Associates
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

(412) 269-6200
FAX (412) 269-6097

May 22, 1995

Mr. James F. Riley, Senior Engineer
E. I. DuPont de Nemours & Company, Inc.
Route 23 and DuPont Road
Circleville, Ohio 43113

Subject: Report of Supplemental Closure Activities for Temporary Sludge Holding Area
Contract Order No. LBIO-4379

Dear Mr. Riley:

Enclosed are four copies of the above referenced document for your files and agency submittal.

One copy is to be submitted to Tom Crepeau at the Central Office of OEPA 3232 Alum Creek Drive, Columbus, Ohio 43207. (Note that the Draft transmittal letter I previously sent had the OEPA's old address on it.) One copy also is to be submitted to your local inspector at the Central District Office.

The certification statement to be signed by Lynn Millikin is the second page of the document. Please xerox and send me a copy of the signed certification so that our files will be complete.

It has been a pleasure working with you on this project, and I hope that Baker can be of assistance to you in the future.

Very truly yours,

BAKER AND ASSOCIATES

Lois M. Muller

Lois M. Muller, P.E.
Project Manager

LMM/gz

Enclosure

cc: Steve Shoemaker

Baker

Baker and Associates
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

(412) 269-6200
FAX (412) 269-6097

INDEPENDENT REGISTERED PROFESSIONAL ENGINEER'S CERTIFICATION OF SUPPLEMENTAL CLOSURE ACTIVITIES TEMPORARY SLUDGE HOLDING AREA

I, Lois M. Muller, being a Registered Professional Engineer in accordance with the Ohio Professional Engineers' Registration Law, hereby certify that to the best of my knowledge, information and belief that the Temporary Sludge Holding Area has been closed as outlined in the attached "Report of Supplemental Closure Activities for the Temporary Sludge Holding Area" dated May 1995. Closure activities were conducted in accordance with the specifications in the Closure Plan dated August 1989 (Revised May 1990) as approved/modified by the Ohio EPA by letter dated September 27, 1990 with subsequent modifications approved by Ohio EPA in letters dated November 17, 1993 and August 22, 1994, as previously documented and certified in the October 1994 "Closure Certification Documentation for Temporary Sludge Holding Area and South Biopond" report. Additional work requested by Ohio EPA letter dated March 13, 1995 as a result of the review of the October 1994 certification report was completed in accordance with the previously referenced closure specifications as documented in the attached report.

Facility Name: E.I. DuPont de Nemours & Co., Inc.
Circleville, Ohio Plant
U.S. EPA Identification No.: OHD 004287322

Facility Location: Route 23 and DuPont Road
Circleville, OH 43113

STATE OF OHIO
LOIS
M.
MULLER
E-58995
REGISTERED
PROFESSIONAL ENGINEER

Engineer's Signature: Lois M. Muller
Name: Lois M. Muller, P.E.
Title: Project Manager
Name of Firm: BAKER AND ASSOCIATES
Airport Office Park - Building 3
420 Rouser Road
Coraopolis, PA 15108
Telephone Number: 412-269-6000
Date: 5-22-95

k:\srpts\20908

OWNER/OPERATOR CERTIFICATION OF CLOSURE
TEMPORARY SLUDGE HOLDING AREA AND
SOUTH BIOPOND

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: E.I. DuPont de Nemours & Co., Inc.
Circleville, Ohio Plant
U.S. EPA Identification No.: OHD 004287322

Facility Location: Route 23 South
Circleville, OH 43113

Owner/Operator's Signature: Lynn K. Millikin
Name: Lynn K. Millikin
Title: Plant Manager
Telephone Number: 614-474-0111
Date: 5-30-95

k:\srpts\20908

Report of Supplemental Closure Activities for the Temporary Sludge Holding Area at E.I.DuPont de Nemours & Company, Inc. Circleville, Ohio

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3.1	Soil Removal Activities	4
3.2	Confirmatory Soil Sampling	4
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3.4	Trip Blanks	5
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4.0	SUMMATION OF HEALTH AND SAFETY ACTIVITIES	6

Figure

I Confirmatory Sampling for Arsenic, March 1995

Appendices

I Ohio EPA Letter Dated March 13, 1995 Requesting Additional Information for Closure Certification

II DuPont Letter Dated March 22, 1995 to Ohio EPA Acknowledging Ohio EPA Requests for Additional Information

III Construction Inspector's Daily Report

IV Bills of Lading

V Analytical Report, Quanterra, Inc.

1.0 INTRODUCTION

Closure certification documentation attesting to closure of the Temporary Sludge Holding Area at DuPont's Circleville facility was provided to Ohio EPA in the report titled "Closure Certification Documentation for Temporary Sludge Holding Area and South Biopond" dated October 1994. Upon review of the October 1994 report, Ohio EPA issued a letter (dated March 13, 1995) requesting additional information, and excavation/confirmatory sampling. A copy of Ohio EPA's March 13, 1995 letter is included as Appendix I.

Ohio EPA's request for additional documentation in support of closure consisted of two general areas:

1. Copies of all uniform hazardous waste manifests and associated land disposal restriction forms for the closure of the south surface impoundment and the sludge drying bed.

2. Additional excavation in an area deemed by Ohio EPA to be a hot spot for arsenic with submissions of records demonstrating proper disposal and achievement of the established cleanup level for arsenic.

In response to Ohio EPA's first request, DuPont provided Ohio EPA's representative with copies of the uniform hazardous waste manifests for the off-site shipment of hazardous waste during a March 17, 1995 site visit. This is documented in DuPont's March 22, 1995 letter to Andrew D. Kubalak; a copy of which is included as Appendix II.

In response to Ohio EPA's second request, DuPont immediately notified Baker & Associates (Baker) of Ohio EPA's determination on the October 1994 certification package, and authorized additional excavation in the area of concern to the Ohio EPA. Baker coordinated and oversaw excavation and disposal of additional soil from the area of concern; and collected confirmatory samples from the excavation area. This report describes the excavation, disposal, and sampling activities, and presents the results, which fully demonstrate closure of the Temporary Sludge Holding Area.

2.0 SITE DESCRIPTION/HISTORY

As previously documented in the "Closure Certification Documentation for Temporary Sludge Holding Area and South Biopond, E.I. DuPont de Nemours & Company, Inc., Circleville, Ohio" report dated October 1994, the Temporary Sludge Holding Area is an approximate 80-foot by 300-foot excavated basin about five feet deep, located in the northwestern section of the facility. This basin was lined with plastic sheeting and used to contain waste materials removed from the North Biopond during its 1986 sludge cleanout and relining. The basin contained sludge from the North Biopond cleanout until DuPont performed sludge and liner removal between May and July 1988. In addition, the Temporary Sludge Holding Area was used for staging the mechanical dewatering operations of and resulting filter cake from the sludge cleanout of the adjacent South Biopond in 1988.

The bioponds historically were used to treat non-hazardous wastewaters from plant operations. Between 1981 and 1986, however, the bioponds were used to treat groundwater contaminated with vinylidene chloride (1,1-dichloroethylene) originating from cleanup of a spill on site. U. S. EPA determined that the contaminated groundwater contained a hazardous waste (U087). Hence the sludge placed in the Temporary Sludge Holding Area from the bioponds was considered by U.S. EPA to be a hazardous waste (U087) since it was mixed with the groundwater.

As described in the Closure Plan, an extensive sampling program was performed for DuPont by ERT (now ENSR) of Concord, Massachusetts to characterize the wastes associated with the biopond and the Temporary Sludge Holding Area. Waste samples were analyzed for 40 CFR Appendix IX metals, volatiles, and semi-volatiles. The samples were analyzed on a total constituent basis. Sludge samples additionally were subjected to EP Toxicity testing for the eight drinking water metals plus antimony.

The results of this testing program, along with knowledge of plant processes were used to compile the list of constituents to be sampled in the soil to verify clean closure.

Clean levels were set at method detection limits for the organic constituents. For the metals, the clean levels were established as background plus two standard deviations, for all metals except nickel, which

was based upon Ohio Farm Soils Data. The Closure Plan included the option of establishing health-based cleanup levels after initial soil sampling results were obtained and evaluated.

The Closure Plan stipulates that the soil removed be managed as a hazardous waste if it exhibits any of the characteristics of a hazardous waste, or if determined to be contaminated with a listed hazardous waste or waste derived from a listed hazardous waste.

Closure activities were divided into phases. Phase I consisted of an extensive sampling and analytical program to ascertain the presence and concentration levels of the constituents of concern. The results of the Phase I analyses were reviewed, and DuPont elected to pursue health-based cleanup standards.

Phase II was initiated upon the mutual concurrence between DuPont and Ohio EPA that different technical opinions within the organizations, precluded coming to agreement on health-based cleanup standards. Therefore, DuPont elected to attempt to achieve clean closure based upon background values for all metals of concern except nickel, whose cleanup level is the Ohio Farms Soils value.

The activities conducted for each phase are summarized in the October 1994 certification report.

As described in the October 1994 certification report, one of the final confirmatory soil samples (J/KK-2/3) when initially analyzed had a reported arsenic concentration of 44.1 mg/kg. Because this reported concentration was inconsistent with the arsenic concentrations reported in samples collected from the area, an additional 24 aliquots from the sample jar were analyzed and the average value was considered to be representative of the remaining soil. The average value was below the established cleanup value for arsenic. No other confirmatory samples were above any of the established cleanup values, thus, closure was deemed complete and the certification prepared and submitted.

Upon review of the October 1994 certification documents, Ohio EPA's closure unit considered the area represented by sample J/KK-2/3 to be a hot spot which must be further excavated due to arsenic. Even though DuPont considers the statistical averaging of the aliquots from the sample to have been conducted in accordance with the intent of the approved Closure Plan, and to have been warranted considering the analytical trends observed; DuPont proceeded to have additional soil excavated from Ohio EPA's area of concern.

The following section documents the work conducted.

3.0 SUMMATION OF SUPPLEMENTAL CLOSURE ACTIVITIES

3.1 Soil Removal Activities

Excavation work was performed by Chemical Waste Management, Inc. (CWM) of Columbus, Ohio. A representative of Baker and Associates (Baker) was present to provide technical and sampling support during soil excavation and provide engineering oversite and closure certification. Both firms performed the same roles during the prior excavation and sampling activities as documented in the October 1994 certification report.

Soil removal and verification sampling was conducted on March 28, 1995. The excavation work was observed by Baker personnel, and a copy of the inspector's daily report is included as Appendix III. Soil removal was accomplished by utilizing a trackhoe excavator. Soil was excavated to an approximate minimum depth of three feet from an approximate 15 foot by 15 foot area around the previous sampling location designated J/KK-2/3.

The excavated soil was placed in Midwest Environmental Transport, Inc. transport trucks and shipped to the Elda Recycling & Disposal Facility in Cincinnati, Ohio. Copies of the bills of lading are included as Appendix IV.

It should be noted that, even though the closure activities are being completed in accordance with RCRA requirements, the soil excavated from the Temporary Sludge Holding Area was determined to be nonhazardous, as previously documented in the October 1994 closure certification report. Hence, transport and disposal of the soil as a nonhazardous waste is appropriate.

3.2 Confirmatory Soil Sampling

Baker personnel collected soil samples from three discrete sampling locations (I, II, and III) for analyses. One field duplicate soil sample (IIID) was collected and submitted for analyses. Sample locations and the area of excavation are shown on Figure I.

Sampling protocol was in accordance with Section 3.2.3 "Sample Collection and Handling" of the approved Closure Plan. Samples were collected with stainless steel sampling spoons from the surface of the soil excavation. Soil samples were placed directly into clean labeled sample jars supplied by Quanterra, Inc. Care was taken to avoid inclusion of extraneous materials such as vegetation, roots, large stones, or rocks. The samples were packed into coolers with ice for shipment. Samples were shipped to Quanterra, Inc. in North Canton, Ohio for analyses. The laboratory method utilized for arsenic analyses was SW-846, Method 7060, as contained in the approved Closure documents.

3.3 Equipment Blank Sample

One sampling equipment blank was collected to after decontamination by pouring distilled/deionized water over a decontaminated stainless steel sampling spoon and collecting the liquid in a clean sample jar. The equipment blank was shipped to Quanterra with the soil samples for arsenic analysis. The equipment blank had no measurable concentration of arsenic.

3.4 Trip Blanks

Trip blanks to accompany the samples required in accordance with "Sampling Collection and Handling" in the Closure Plan were not necessary because no volatile organic compounds were analyzed during this sampling event.

3.5 Sample Results

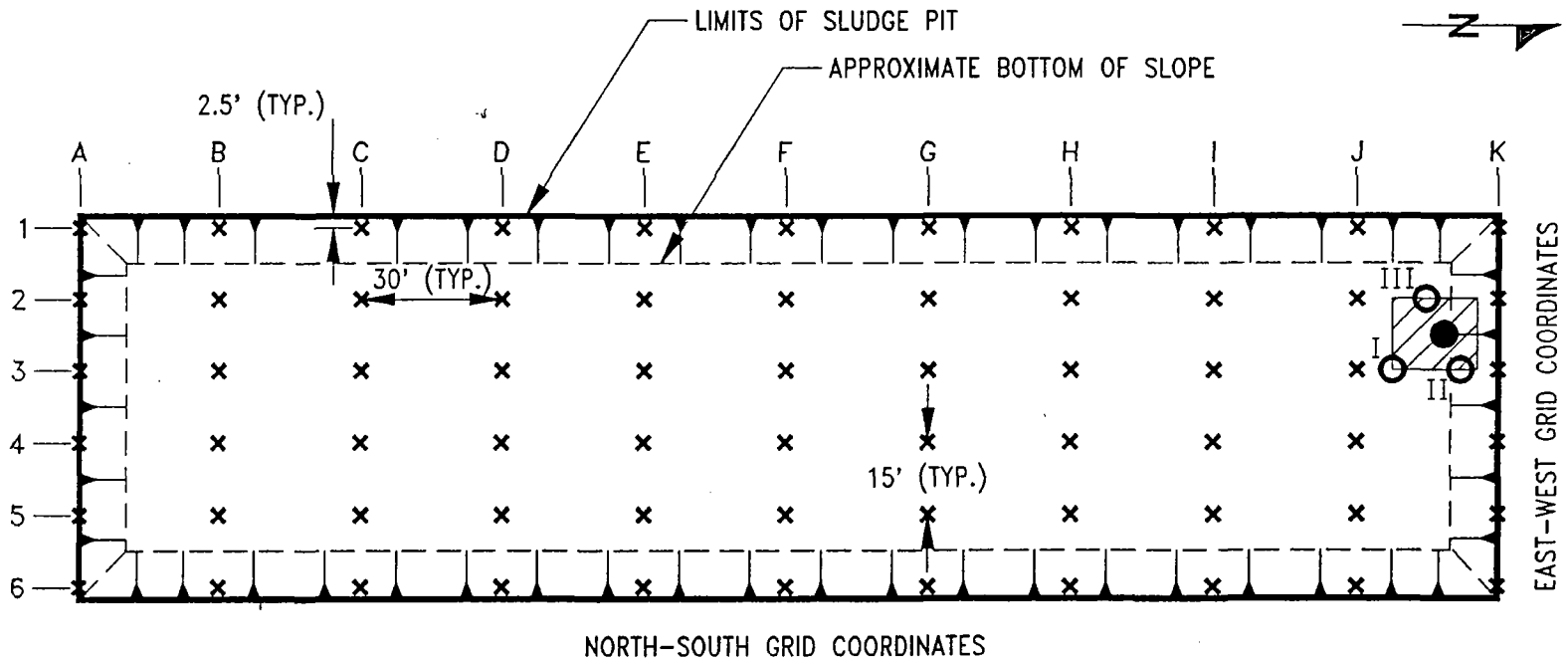
Arsenic concentrations in the four soil samples analyzed ranged from 6.9 mg/kg to 15.3 mg/kg, which are all well below the established cleanup criteria of 24.2 mg/kg. The results are summarized on Figure I, and the analytical report is included as Appendix V.

Hence, the results clearly demonstrate that clean closure has been achieved in accordance with the approved Closure Plan.

4.0 SUMMATION OF HEALTH AND SAFETY ACTIVITIES

In accordance with DuPont's Health and Safety Plan, CWM and Baker personnel wore steel-toe safety boots and safety glasses. Hard hats were worn when personnel were in the area of operating equipment such as the loader or excavator. When sampling, disposable neoprene gloves were worn. Contact with the soil was avoided through the use of stainless steel spoons. Disposable TYVEK suits were occasionally worn, at the discretion of the on-site personnel. Disposable safety clothing was transported with the excavated soil to Waste Management Elda facility, Cincinnati, Ohio for proper disposal.

Equipment that contacted contaminated soils during excavation was decontaminated prior to leaving the site. The decontamination procedure for the backhoe bucket and stainless steel sampling spoons consisted of scraping to remove excess soil accumulation, a non-phosphate detergent wash, and a distilled water rinse. The decontamination of the backhoe bucket was performed within the trailer of the final transport truck. All wastes generated during the decontamination of the backhoe bucket were collected and contained within the trailer. The small quantities of captured sampling spoon decontamination fluids also were combined with the material in the final transport truck. The decontamination materials were transported along with the soil to the Waste Management Elda facility, Cincinnati, Ohio for proper disposal.



RESULTS SUMMARY

SAMPLE NO.	ARSENIC CONCENTRATION (mg/kg)	CLEANUP STANDARD (mg/kg)	CONCLUSION
I	6.9	24.2	MEETS CLOSURE STANDARD
II	14.6	24.2	MEETS CLOSURE STANDARD
III	15.3	24.2	MEETS CLOSURE STANDARD
IIID (FIELD DUPLICATE)	9.3	24.2	MEETS CLOSURE STANDARD

LEGEND

- SOIL REMOVED
- × GRID LOCATION
- II ○ MARCH 1995 SAMPLING POINT DESIGNATION
- ● PRIOR SAMPLE POINT J/KK-2/3 (JUNE 1994)

FIGURE I

CONFIRMATORY SAMPLING FOR ARSENIC MARCH 1995

SCALE: 1" = 40'

CADD FILE: 20908F22.DWG

APPENDIX I

Ohio EPA Letter Dated March 13, 1995 Requesting Additional Information for Closure Certification

OhioEPA
State of Ohio Environmental Protection Agency
Central District Office

Street Address:
3232 Alum Creek Drive
Columbus, Ohio 43207-3417
614-728-3778 FAX 614-728-3898

Mailing Address:
P.O. Box 163669
Columbus, Ohio 43216-3669

George V. Voinovich
Governor

March 13, 1995

RE: Pickaway County
E.I. DuPont deNemours & Company, Inc.
CLOSURE CERTIFICATION
OHD004287322

Mr. James F. Riley, Senior Engineer
E.I. DuPont deNemours & Company, Inc.
Circleville Plant
P.O. Box 89
Circleville, Ohio 43113

Dear Mr. Riley:

The Ohio EPA Central District Office has completed a review of the E.I. DuPont deNemours & Company, Inc. (DuPont) closure certification which is dated October 21, 1994 and was received by Ohio EPA on that date. This certification was submitted following closure of the south surface impoundment and the sludge drying bed. We have the comments below following a review of the closure certification report:

1. Exhibit 1, Section 2.1 Waste Removal/Dewatering, page 4: This section indicates that copies of all manifests will be included with closure certification.

   The closure certification does not include copies of the uniform hazardous waste manifests for the off-site shipment of hazardous waste. Please provide copies of all uniform hazardous waste manifests and associated Land Disposal Restriction forms for the closure of the south surface impoundment and the sludge drying bed.

2. Section 4.4, Sample Results, page 8 and Table 7: This section states that the initial analytical result for the sample jar identified as J/KK-2/3 indicated a concentration of 44.1 mg/kg of arsenic. The established cleanup level for arsenic is 24.2 mg/kg. DuPont indicated that following this initial analysis, an additional 24 aliquots from this same sample jar were analyzed. The 25 values obtained from this sample jar were subjected to statistical tests/calculations, and DuPont subsequently determined that the average value for arsenic remaining in the soil is below the established cleanup level.

Ohio EPA's closure unit has evaluated the above mentioned scenario and considers the area represented by this sample to be hot spot which must be further excavated due to the concentration of arsenic which is present. A confirmatory soil sample should be obtained following additional excavation to demonstrate that the arsenic concentration in the remaining soil is below the established cleanup level. Please submit records of off-site disposal for this additional excavation and analytical data from confirmatory soil samples demonstrating that the concentration for arsenic remaining in the soil is below the established cleanup level.

Please provide the information requested above to our office within 30 days of the date of this letter. As always, please feel free to call me at (614) 728-3887 if you have any questions regarding this matter.

Sincerely,

Andrew D. Kubalak

Andrew D. Kubalak
Division of Hazardous Waste Management
Central District Office

cc: Montee Suleiman, DHWM, CO
Pamela Allen, DHWM
CDO File

dupont1/6

Baker

Baker and Associates

APPENDIX II

DuPont Letter Dated March 22, 1995 to Ohio EPA Acknowledging Ohio EPA Requests for Additional Information

DuPont Circleville Plant
P.O. Box 89
Circleville, OH 43113

DuPont Circleville Plant

March 22, 1995

Andrew D. Kubalak
Division of Hazardous Waste Management
OHIO ENVIRONMENTAL PROTECTION AGENCY
P. O. Box 163669
Columbus, Ohio 43216-3669

Re: Andrew D. Kubalak Letter of March 13, 1995 to James F. Riley

Dear Mr. Kubalak:

This correspondence is in response to the above referenced letter and to confirm our recent conversation on the DuPont sludge basin closure program.

During your March 17, 1995 site visit, I provided you with copies of the uniform hazardous waste manifests for the off-site shipment of hazardous waste in fulfillment of Exhibit 1, Section 2.1 "Waste Removal/Dewatering" of the Closure Certification Report.

In the next 30 days DuPont will arrange to have soil excavated from the area of the sludge basin, which is of concern to the Agency because of the arsenic concentration in the soil. After the soil has been removed, a confirmatory soil sample will be obtained to demonstrate that the arsenic concentration in the remaining soil is below the established cleanup level. When confirmatory soil sample results are available, records of off-site disposal for the additional excavated soils and analytical data from the confirmatory soil samples will be submitted to the Ohio EPA.

Please call me at 614-474-0476 if you have any questions or need additional information.

Sincerely,

Jim Riley

J. F. Riley
Senior Engineer

JFR680W/ah

Baker

Baker and Associates

APPENDIX III

Construction Inspector's Daily Report

Baker

CONSTRUCTION INSPECTOR'S DAILY REPORT

PROJECT/LOCATION: DuPont - Circleville

S.O. NO.: 20908-000-0000-00100

DATE: 3/28/95

CONTRACTOR: CHEM WASTE MANAGEMENT

CONTRACT NO.:

Weather: OVERCAST, CLOUDY

Min. Temp. 40°F Max. Temp.

Contractor Personnel Working On Site:

Supervisory (No. & Type)	Skilled (No. & Type)	Unskilled (No. & Type)
ROGER SPENCER - CWM	MIKE WESTFALL - OPERATOR	

Equipment Working:

- EXCAVATOR KOMATSU PC 200LC
- TRANSPORT TRUCK - MIDWEST ENVIRONMENTAL TRANSPORT, INC - CINCINNATI, OH

Work Performed: 0745 - 0820 LAYOUT EXCAVATION GRID STAKES & SAMPLING LOCATIONS

0935-10:00 EXCAVATE SOIL LOAD 1ST TRUCK

10:05 - 10:28 LOAD 2ND TRUCK

10:50 - 11:00 SOIL SAMPLING

11:05 - 11:40 DECON EXCAVATOR BUCKET

Test Performed:

Type of Test	Test Number	Results
SOIL SAMPLE I, II, III		
ARSENIC		
EQUIPMENT RINSE SAMPLE		
ERS-1		

Official Visitors: 9:40 - 10:20 RALPH DOWLER OBSERVE EXCAVATION OPERATION

Prepared By: W. Pelkey

Title: ENGINEER

Page 1 of 1

APPENDIX IV

Bills of Lading

THIS MEMORANDUM

Is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. 95074

Carrier's No. 606

CARRIER: Midwest Environmental Transport, Inc. SCAC Date 3/28/95

TO:		FROM:	
Consignee	Elda Recycling & Disposal Facility	Shipper	E. I. DuPont DeNemours
Street	5701 Este Avenue	Street	Route 23, South
Destination	Cincinnati, OH Zip 45232	Origin	Circleville, OH Zip 43113

Route: Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	PACKING GROUP	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
		Non-Regulated Soil WMNA141789 Project #66593	NONE	NONE	NONE	38,480 lb		NONE

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES ☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per [signature]

PLACARDS REQUIRED NONE

PLACARDS SUPPLIED ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER: E. I. DuPont DeNemours
PER: [signature]
DATE: 3/28/95

CARRIER: Midwest Environmental Transport, Inc.
PER: [signature]
DATE: 3/28/95

EMERGENCY RESPONSE TELEPHONE NUMBER: (800) 765-8713

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

9-BLS-A4
(Rev. 4/91)

THIS MEMORANDUM

is an acknowledgment that a bill of lading has been issued and is not the Original Bill of Lading, nor copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper's No. [illegible]

Carrier's No. [illegible]

CARRIER: [illegible] SCAC Date [illegible]

TO:		FROM:	
Consignee	Elda Recycling & Disposal Facility	Shipper	E. I. DuPont DeNemours
Street	5701 Este Avenue	Street	Route 23, South
Destination	Cincinnati, OH Zip 45232	Origin	Circleville, OH Zip 43113

Route: Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	PACKING GROUP	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exemption)
		Non-Regulated Soil WHWA14789 Project #66593	NONE	NONE	NONE	[illegible]		NONE

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE: Prepaid ☐ Collect ☐ $

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

FREIGHT CHARGES ☐ PREPAID ☐ COLLECT

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.
Per [illegible]

PLACARDS REQUIRED: NONE

PLACARDS SUPPLIED: ☐ YES ☐ NO — FURNISHED BY CARRIER
DRIVER SIGNATURE:

SHIPPER: E. I. DuPont DeNemours
PER: [illegible]
DATE: [illegible]

CARRIER: [illegible]
PER: [illegible]
DATE: [illegible]

EMERGENCY RESPONSE TELEPHONE NUMBER: (800) 765-8713

Monitored at all times the Hazardous Material is in transportation including storage incidental to transportation (172.604).

9-BLS-A4
(Rev. 4/81)

Baker

Baker and Associates

APPENDIX V

Analytical Report, Quanterra, Inc.

Quanterra
Environmental Services

Quanterra Incorporated
4101 Shuffel Drive, NW
North Canton, Ohio 44720

216 497-9396 Telephone
216 497-0772 Fax

ANALYTICAL REPORT

PROJECT NO. 20908 000 0000 00100

DUPONT CIRCLEVILLE

WILLIAM PELKEY

BAKER ENVIRONMENTAL INC

QUANTERRA INCORPORATED

Brian R. Smith

Brian R.Smith
Project Manager

April 11, 1995

Quanterra
Environmental Services

PROJECT NARRATIVE

The following report contains the analytical results for four solid samples and one water sample submitted to Quanterra-North Canton by Baker Environmental, Inc. from the DuPont Circleville Site, project number 20908 000 0000 00100. The samples were received March 29, 1995, according to documented sample acceptance procedures.

Quanterra utilizes only USEPA approved methods and instrumentation in all analytical work. The samples presented in this report were analyzed for the parameters listed on the following page in accordance with the methods indicated. A summary of QC data for these analyses is included at the end of the report.

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

Parameters	Methods
Arsenic	SW846 7060
Solids, Total (TS)	MCAWW 160.3 MODIFIED

References:

MCAWW Methods for Chemical Analysis of Water and Wastes, EMSL: Cincinnati, OH: March 1983 and subsequent revisions

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, September, 1986 and subsequent revisions

Quanterra
Environmental Services

SAMPLE SUMMARY

The analytical results of the samples listed below are presented on the following pages.

WO #	LABORATORY ID	SAMPLE IDENTIFICATION
A3M8F	A5C290055-001	EQUIPMENT RINSE SAMPLE
A3M8K	A5C290055-002	I 7' NORTH J/3
A3M8M	A5C290055-003	II 22' NORTH J/3
A3M8Q	A5C290055-004	III 15' NORTH J/2
A3M8V	A5C290055-005	IIID 15' NORTH J/2

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

EQUIPMENT RINSE SAMPLE

WO #: A3M8F
LAB #: A5C290055-001
MATRIX: WATER

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - - REQUESTED METALS - - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Arsenic	ND	0.0050	mg/L	SW846 7060	4/04- 4/07/95	5094029

NOTE: AS RECEIVED
ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

I 7' NORTH J/3

WO #: A3M8K
LAB #: A5C290055-002
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- REQUESTED METALS -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Arsenic	6.9	1.1	mg/kg	SW846 7060	3/30- 4/06/95	508912

NOTE: DRY WEIGHT

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

I 7' NORTH J/3

WO #: A3M8K
LAB #: A5C290055-002
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - INORGANIC ANALYTICAL REPORT - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	91.3	0.50	%	MCAWW 160.3 M	3/30- 3/31/95	5089022

NOTE: AS RECEIVED

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

II 22' NORTH J/3

WO #: A3M8M
LAB #: A5C290055-003
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - REQUESTED METALS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Arsenic	14.6	3.0	mg/kg	SW846 7060	3/30- 4/06/95	5089127

NOTE: DRY WEIGHT

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

II 22' NORTH J/3

WO #: A3M8M
LAB #: A5C290055-003
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - INORGANIC ANALYTICAL REPORT - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	82.7	0.50	%	MCAWW 160.3 M	3/30- 3/31/95	5089022

NOTE: AS RECEIVED

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

III 15' NORTH J/2

WO #: A3M8Q
LAB #: A5C290055-004
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - - REQUESTED METALS - - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Arsenic	15.3	10.9	mg/kg	SW846 7060	3/30- 4/07/95	5089127

NOTE: DRY WEIGHT

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

III 15' NORTH J/2

WO #: A3M8Q
LAB #: A5C290055-004
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - INORGANIC ANALYTICAL REPORT - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	91.8	0.50	%	MCAWW 160.3 M	3/30- 3/31/95	5089022

NOTE: AS RECEIVED

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

IIID 15' NORTH J/2

WO #: A3M8V
LAB #: A5C290055-005
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - REQUESTED METALS - - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Arsenic	9.3	2.7	mg/kg	SW846 7060	3/30- 4/06/95	5089127

NOTE: DRY WEIGHT

Quanterra
Environmental Services

BAKER ENVIRONMENTAL INC

IIID 15' NORTH J/2

WO #: A3M8V
LAB #: A5C290055-005
MATRIX: SOLID

DATE SAMPLED: 3/28/95
DATE RECEIVED: 3/29/95

- - - - - - - - - - - - - - - - - - INORGANIC ANALYTICAL REPORT - - - - - - - - - - - - - - - - -

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE	QC BATCH
Solids, Total (TS)	92.8	0.50	%	MCAWW 160.3 M	3/30- 3/31/95	508902

NOTE: AS RECEIVED

Quanterra
Environmental Services

QUALITY CONTROL SECTION

Quanterra
Environmental Services

QUALITY CONTROL NARRATIVE

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with the exception of those items noted.

The matrix spike and matrix spike duplicate (MS/MSD) contained in this quality control report were generated as part of the laboratory QA/QC program requirements. These requirements include the analysis of a MS/MSD on a one in twenty basis. Therefore, the associated batch number indicated on the MS/MSD report may not reflect the same batch number as those of the samples contained in the analytical report.

Quanterra
Environmental Services

CHECK SAMPLE REPORT

LAB #: A5C290055

METALS

COMPOUND	SPIKE PERCENT RECOVERY	Q/C LIMITS	PREPARATION - ANALYSIS DATE
	BATCH:5089127		
Arsenic	82	(74-117)	3/30- 4/06/95
	BATCH:5094029		
Arsenic	97	(67-119)	4/04- 4/07/95

Quanterra
Environmental Services

INTRA-LAB BLANK REPORT

LAB #: A5C290055

METALS

PARAMETER	RESULT	REPORTING LIMIT	UNIT	METHOD	PREPARATION - ANALYSIS DATE
		BATCH:5089127			
Arsenic	ND	0.50	mg/kg	SW846 7060	3/30- 4/06/95
		BATCH:5094029			
Arsenic	ND	0.0050	mg/L	SW846 7060	4/04- 4/07/95

NOTE:

ND NOT DETECTED AT THE STATED REPORTING LIMIT

Quanterra
Environmental Services

METALS SPIKE REPORT

WATER - GFAA

- -METALS- -

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMITS	PREPARATION-ANALYSIS DATE	W/O#
Silver	77	78	(82-106)	1	(0-20)	3/17-3/23/95	A3D62
Arsenic	84	82	(44-140)	2	(0-20)	3/10-3/14/95	A332T
Cadmium	89	93	(67-116)	4	(0-20)	3/17-3/21/95	A3D62
Chromium	82	80	(56-147)	2	(0-20)	3/17-3/28/95	A3D62
Lead	87	89	(54-123)	2	(0-20)	3/10-3/14/95	A332T
Selenium	73	71	(10-121)	2	(0-20)	3/10-3/14/95	A332T
Thallium	104	106	(50-121)	2	(0-20)	3/10-3/15/95	A332T
Antimony	120	114	(10-159)	5	(0-20)	3/22-3/23/95	A3DEK

Quanterra
Environmental Services

METALS SPIKE REPORT

SOLID - GFAA

- -METALS- -

COMPOUND	SPIKE PERCENT RECOVERY	SPIKE/DUP PERCENT RECOVERY	Q/C LIMITS	RPD	RPD LIMITS	PREPARATION-ANALYSIS DATE	W/O#
Lead	86	86	(25-156)	0	(0-20)	3/03-3/06/95	A34L3
Cadmium	104	105	(36-174)	1	(0-20)	1/06-1/10/95	A1XVN
Chromium	80	80	(67-110)	0	(0-20)	3/05-3/05/92	49173
Arsenic	59	64	(10-180)	9	(0-20)	3/03-3/06/95	A34L3
Selenium	44	52	(10-126)	18	(0-20)	3/03-3/06/95	A34L3
Thallium	74	74	(65-127)	1	(0-20)	3/03-3/08/95	A34L3
Silver	109	104	(36-150)	5	(0-20)	1/18-1/19/95	A2AET
Antimony	48	44	(10-125)	9	(0-20)	3/03-3/06/95	A34L3

Interlaboratory Chain of Custody

4101 FLE[illegible] W.
NOR[illegible]NTON, OHIO 44720
PHONE (216) 497-9396 FAX (216) 497-0772

[illegible]ra Environmental Services

.IENT CODE _____

JOTE / SAR NUMBER _____

ıain-of Custody Record

72135

PROJ. NO. 0908 000 000 00100

PROJECT NAME/LOCATION: DuPont Circleville

SAMPLERS: (Signature) William Pelkey

TA. NO.	DATE	TIME	COMP.	GRAB.	STATION LOCATION	NO. OF CONTAINERS	PARAMETER: ARSENIC SW 846 METHOD 7060						REMARKS
RS-1	3/28/95	1030		X	EQUIPMENT RINSE SAMPLE	1	X						LIQUID WITH NITRIC ACID
I		1050		X	7' NORTH J/3	1	X						SOIL
II		1052		X	22' NORTH J/3	1	X						
III		1055		X	15' NORTH J/2	1	X						
II D		1056		X	15' NORTH J/2	1	X						

elinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
William Pelkey	3/28/95 14:00				
elinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
elinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Denise Smith	3/29/95 1:20		

Distribution Original Accompanies Shipment. Copy returned with Report.

Appendix G

OHIO EPA RCRA FACILITY ASSESSMENT—PRELIMINARY REVIEW

OhioEPA
State of Ohio Environmental Protection Agency
P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149

Toward A Cleaner Environment
15 Year Anniversary 1972 - 1987

Richard F. Celeste
Governor

September 10, 1987

Re: E.I. DuPont DeNemours & Co., Inc.
01-65-0043
OHD004287322

Mr. George Hamper, Chief
Waste Management Division
Technical Programs Section, Ohio Unit
USEPA, Region V, 5HS-13
230 South Dearborn Street
Chicago, Illinois 60604

Dear Mr. Hamper:

Attached for your further action is an RFA Preliminary Review for E.I. DuPont DeNemours & Co., Inc., OHD004287322.

Please provide me with any comments you may develop concerning the quality or quantity of this work effort.

If your permit writers have questions of a specific nature, please direct them to contact Andy Kubalak of Ohio EPA's Central District Office. Any other questions or comments of a programmatic or scheduling issue should be directed to me.

Sincerely,

Edwin Y. Lim

Edwin Y. Lim
Technical Assistance and Engineering Section
Division of Solid and Hazardous Waste Management

Attachments

cc: Martha Gibbons, Ohio EPA, DSHWM
Joel Morbito, USEPA, Region V
Mike Savage, Ohio EPA, DSHWM
Roger Hannahs, Ohio EPA, DSHWM
Andy Kubalak/Lundy Adelsberger, Ohio EPA, DSHWM
Tom Crepeau/DSHWM Central File, Ohio EPA (w/attachment)
Edward Kitchen, Ohio EPA, DSHWM

Attachment 19 (Revised 1/15/86)
(New Version)

RECEIVED
OHIO EPA

SEP 08 1987

DIV. of SOLID & HAZ. WASTE MGT.

Name of Preparer: ANDREW D. Kubalak
Date: AUGUST 21, 1987

Model Facility Management Plan

1. Facility Name: E.I. DUPONT DE NEMOURS AND Company, INC.

2. Facility I.D. Number: OHD004287322

3. Owner and/or Operator: H.F. CANFIELD, JR., PLANT MANAGER

4. Facility Location: US ROUTE 23, SOUTH
Street Address

CIRCLEVILLE	PICKAWAY	OHIO	43113
City	County	State	Zip Code

5. Facility Telephone (if available): (614) 474-0476

6. Recommendation for Regional Approach to the Facility: Check one

X Site Investigation

____ Permit Compliance Schedule

____ Corrective Action Order (may include compliance schedule)

X Other Administrative Enforcement *Administrative Order issued by Ohio EPA on June 29, 1987. (attached)

____ Federal Judicial Enforcement

____ Referral to CERCLA for Federally Financed or Enforcement Activity

X Voluntary/Negotiated Action *OEPA administrative order with facility consent. Clean-up of contaminated ground water is a voluntary action which the facility undertook upon recommendation of OEPA Emergency Response.

____ State Action

Brief narrative in explanation of selection: Specific recommendations for site investigation are included with specific unit information" for each SWMU. Facility is petitioning for delisting; see August 20, 1987 letter to Marsha Williams and specific unit information for "bio-ponds".

a) If site investigation alternative is selected:

anticipated inspection date _____

State or Federal inspection _____

b) If Permit Alternative is Selected: Projected Schedule

Date of Part B Submission: _____

Date of Completeness Check: _____

Date for Additional Submissions (if required): _____

Date of Completion of Technical Review: _____

Completion of Draft Permit/Permit Denial: _____

Public Notice for Permit Decision: _____

Date of Hearing (if appropriate): _____

Date of Final Permit or Denial Issuance: _____

Description of any corrective action provisions to be included in permit -

1. Plan of Study of Remedial Investigation: _____

_____

2. Remedial Investigation Report/Corrective Action Plan Cost Estimate/Financial Mechanism: _____

_____

3. Completion of Corrective Action: _____

_____

c) If Corrective Action Order Alternative is Selected:

Estimated Date for Order Issuance: _____

Description of Provisions of the Order to be Completed by Facility: _____

_____

_____

Description of Compliance Schedule to be Contained in Order:

_____

_____

_____

d) If Other Administrative Enforcement Action is Selected:

Projected Date for Issuance of the Order: _____

Description of Provisions or Goals of the Order: _____

_____

_____

e) If Judicial Enforcement Alternative Selected:

Date of Referral to Office of Regional Counsel: _____

f) If Referral to CERCLA for Action Selected:

Date of Referral to CERCLA Sections: _____

g) If Voluntary/Negotiated Action Alternative if Selected:

Date of Initial Contact with Facility: _____

Description of Goals of Contact or Discussions with Facility: _____

_____

_____

_____

Date for Termination of Discussions if Not Successful:

_____

Date of Finalization of Settlement if Negotiation Successful:

_____

h) If State Action Alternative is Selected:

Date for Referral to State: _____

Name of State Contact: _____

Phone: _____

7. EPA Concurrence (to be completed by Region V, TPS staff)

(Check one)

☐ A corrective action order (or other enforcement action) was recommended, and HWEB concurs.

☐ No enforcement action was recommended, and HWEB did not object.

☐ Enforcement action was recommended, but HWEB did not concur at this time; we have revised the FMP accordingly.

(Check one)

☐ Action involving ERRB was recommended, and ERRB concurs.

☐ No ERRB action was recommended, and ERRB did not object.

☐ Action involving ERRB was recommended, that ERRB did not concur; we have revised the FMP accordingly.

(Check one)

☐ Based on our review, the FMP is hereby approved as drafted by ~~[illegible]~~ the State.

☐ Based on our review, the FMP is hereby approved as amended.

Signature Andrew D. Kilbalak (EPA Staff)

Date: August 21, 1987

DU PONT PRODUCT DESCRIPTIONS

DESCRIPTION OF MYLAR®

Mylar® polyester film is the end product of a polymerization process using dimethylterephthalate (DMT) and ethylene glycol as the basic raw materials. The materials are fed into a vessel where, in the presence of high temperature and vacuum, a reaction occurs in which methanol is released from the material and monomer is formed. Monomer can be described as the simple molecule which we use to construct a polymer "chain" or giant molecule. The process word we use to describe this chain construction is "polymerization".

Polymerization occurs when we subject monomer to certain conditions of temperature and pressure. The fully polymerized material in the molten state is at a high temperature, and its viscosity is comparable to that of heavy corn syrup.

This molten material is now ready to cast into a sheet of Mylar® film. This is accomplished by forcing the molten liquid through the thin slot of two metal plates called "hopper lips". The thin sheet of hot liquid is rapidly cooled to a solid by a large cooling drum. From this point on to completion, the sheet is heated, stretched and wound on a mill roll.

Mylar® film, made in various types and in thicknesses ranging from .06 mils to 14 mils, is used for such diverse end uses as food packaging, electric motor insulation, capacitors, sound recording tape, pressure sensitive tape, protective and decorative laminations,drafting film, wire and cable insulation,roll leaf base, stationery supplies apparel stays, satellites, liquid containers and cooking pouches.

DESCRIPTION OF TEFLON®

Teflon® FEP is a fluorocarbon resin converted to film by the Circleville Plant. It differs in composition from the familiar Teflon® TFE resin used to coat cookware. In addition to the basic difference, Teflon® is cast into a flat sheet or into tubular form and consequently is in a class by itself. It is produced in many gages, some thinner than the human hair.

Teflon® FEP film is resistant to most chemicals and solvents. It also has unique anti-stick properties and a low coefficient of friction. However, special surface is available which permits adhesives to stick for making laminates. It can be used in continuous service at 400°F (200°C).

Teflon® FEP film is widely accepted in electrical and electronic fields. Typical uses include printed circuits, wire and cable insulation, capacitors and other applications where high reliability is needed under difficult operating conditions.

®Du Pont Registered Trademark

(0452H)

DU PONT PRODUCT DESCRIPTIONS

DESCRIPTION OF TEFLON® (Continued)

Where tacky materials are encountered by such industries as textile finishing, paper, printing and waxes, the anti-stick properties of Teflon® FEP is ideal for mold liners, conveyor belts and surfacing of rolls. Other applications include gasketing, bearings, pressure sensitive tape and protective clothing.

DESCRIPTION OF KAPTON®

Kapton® polyimide film is prepared by dissolving monomers in a solvent to make a viscous polymetric solution. This polymer as such is metered through a die and cast on to a drum forming a gel like film. This film is then processed thru a tenterframe to remove excess solvent and is wound into rolls of Kapton® "H" film. Strength of Kapton® at room temperature is about the same as Mylar®, however, where Mylar® melts at 250°C, Kapton® remains intact up to 800°C.

Kapton® "F" film is a laminate with Teflon® or a Teflon® coated product.

The major end use for Kapton® is in electrical insulation for flexible circuits,special wire, motors and transformers. It is being widely utilized in aerospace applications.

DESCRIPTION OF SP RESIN

SP Resin is a polyimide resin produced by polymerization, imidization, filtration and drying.

Polymerization occurs when two monomers are dissolved and reacted in solvent to form a polymer solution, which is heated and cooked (imidization) until tiny particles form within that solution. This mixture (slurry) is then filtered and dried to remove the solvent and the dry powder-like material which remains is known as SP Resin.

SP Resin is then shipped to Pencader (Du Pont Plant) for forming and molding to produce the final plastic end products known as Vespel® precision parts and shapes. It has excellent electrical properties, high abrasive resistance and is inherently as strong as steel. Vespel® parts remain stable and retain their physical properties at temperatures up to 426°C. They are utilized to meet the highly critical needs of the aerospace induustry, as well as many other critical and non-critical industrial applications.

/ah

(0452H)

E.I. DUPONT DE NEMOURS AND COMPANY, INC.
PRELIMINARY REVIEW REPORT
RCRA FACILITY ASSESSMENT

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REPORT ON PERMIT TO INSTALL FOR DECONTAMINATION OF GROUNDWATER THRU AN AIR STRIPPER AT E. I. DUPONT IN CIRCLEVILLE

On August 1, 1985, a Permit to Install (PTI) application was submitted to the Ohio EPA, Central District Office, Division of Air Pollution Control by James Riley and J. C. Simpson of E. I. DuPont DeNemours & Company (hereinafter referred to as DuPont).

DuPont is located on U.S. Route 23 south of Circleville in Pickaway Township, Pickaway County.

The Permit to Install application is for an air stripper that will be used to remove vinylidine chloride from contaminated groundwater. The Divisions of Air Pollution Control and Water Pollution Control are jointly reviewing this permit application.

This report deals only with the wastewater being discharged from the air stripper.

In 1981, DuPont discovered an underground leak of vinylidine chloride and determined that vinylidine chloride had leached into the groundwater. The company immediately began clean-up efforts. Water has been pumped (at approximately 100 gpm) from the aquifer in the leak area and treated in the plant's aerated lagoon.

DuPont now intends to increase the pumping rate to approximately 700 gallons per minute thru two wells known as DB-2 and DB-3. The water from these two wells which is contaminated with vinylidine chloride is proposed to be treated by means of an air stripper. This increased pumping rate should accelerate cleanup of the contaminated aquifer.

The air stripper is to be built for DuPont by Hydro Group. The discharge of water from the air stripper will be to the company's storm sewer system and then the Scioto River.

It is anticipated that the well water being pumped from DB-2 and DB-3 will contain approximately 2670 ug/l of vinylidine chloride before entering the air stripper. The design effeciency of the air stripper is 99.8%; and thus the anticipated concentration of vinylidine chloride in the water leaving the air stripper is approximately 5.5 ug/l. There should be no toxicity problems with aquatic organisms at this expected level of vinylidine chloride in treated wastewater.

A special condition in the Permit to Install will require DuPont to have its NPDES permit (4IF00001*CD) modified to include limitations on the air stripper discharge.

Another special condition in the Permit to Install will require DuPont to stop pumping from wells DB-2 and DB-3 when the air stripper is not operating.

Detail drawings are not yet available for the air stripper and associated piping. A special condition in the Permit to Install will require these drawings to be submitted to Central Ohio Unit, Division of Water Pollution Control.

The estimated cost of the air stripper is sixty thousand dollars. Construction is expected to begin soon after issuance of the Permit to Install and to be completed by the end of 1985.

It is recommended that the Permit to Install be approved per the selected standard conditions and special conditions.

Larry Korecko

Larry Korecko
Division of Water Pollution Control

LK/rr
9/6/85

Facility EI DUPONT DE NEMOURS

I.D. No. OHD004287322

Page No. A. 1.

SOLID WASTE MANAGEMENT UNITS AND MAJOR SPILLS

Unit or Spill	LOCATION OF INFORMATION						
	Permit Applic	SWMU Questnr	NPDES Files	Enfrcmt Files	CERCLA Files	State Files	Other
1. BURNING PITS (2)		✓					
2. RIVER RAVINE LANDFILLS I & II		✓					
3. LANDFILL (PIT)		✓					
4. LANDFILL (OPEN AREA)		✓					
5. GROUNDWATER STRIPPER		✓				✓	
6. SLUDGE BASIN		✓				✓	
7. SOUTH & NORTH INCINERATORS		✓				✓	✓
8. KAPTON SOLVENT TANKS		✓					
9. KAPTON TANK FARM SUMPS (2)		✓					
10. SP RESIN COLLECTED SOLVENT TANK		✓				✓	
11. USED TRIETHYLENE GLYCOL TANK		✓					
12. MOBILE EQUIPMENT CLEANING STATION		✓					
13. CRL CLEANING SOLUTION COLLECTION TANK		✓					
14. USED OIL DRUM PAD		✓					
15. KAPTON WASTE DRUM PAD		✓					
16. TRIETHYLENE GLYCOL SLUDGE TANK		✓					
17. CATTLE BARN ASBESTOS		✓					
18. SANITARY TRASH		✓					
19. FARM FEED PIT		✓					
20. DRY SUMP		✓					
21. SHALLOW BURNING PIT		✓					
22. CHEMICAL WASTE BURNING PIT		✓					
23. RCRA SATELLITE ACCUMULATION AREA		✓				✓	

TPS-14 (06/13/86)

Facility E.I. DUPONT DE NEMOUR

I.D. No. OHD004287322

Page No. A.2.

SOLID WASTE MANAGEMENT UNITS AND MAJOR SPILLS

Unit or Spill	LOCATION OF INFORMATION						
	Permit Applic	SWMU Questnr	NPDES Files	Enfrcmt Files	CERCLA Files	State Files	Other
24. SLUDGE DRYING BEDS		✓					
25. FUEL OIL PIT		✓					
26. ADDITIVE 19 LIMESTONE PIT		✓					
27. WEST ADDITIVE 19 LIMESTONE PIT		✓					
28. BIO - PONDS (2) (SURFACE IMPOUNDMENTS)		✓				✓	
29. USED CAUSTIC TANKS		✓					
30. EAST & NORTH SETTLING BASINS WITH 2 SUMPS		✓					
31. KAPTON FILTER WASH NEUTRALIZATION BASIN		✓					
32. MYLAR NEUTRALIZATION BASIN		✓					
33. KAPTON NEUTRALIZATION BASIN		✓					
34. SP SUMP		✓					
35. HAZARDOUS WASTE PAD						✓	

TPS-14 (06/13/86)

Facility EI DUPONT DE NEMOURS

I.D. No. OHD004287322

Page No. B.

SUBJECT B. GENERAL FACILITY DESCRIPTION

Category	Description	Category	Description
1	LOCATION/SETTING/LAND USE/SIZE	5	OPERATIONAL HISTORY
2	INDUSTRY TYPE	6	REGULATORY STATUS
3	PRODUCTS PRODUCED	7	OTHER
4	RAW MATERIALS	8	

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	1	LOCATION	STATE DISTRICT FILE (WPC) AND DSHWM
2	1	SETTING/LAND USE	EXPERIENCE WITH AREA
3	2	INDUSTRY TYPE	EXPERIENCE WITH AREA
4	3	PRODUCTS PRODUCED	DISTRICT ISS FILE, WPC FILE
5	4	RAW MATERIALS	DISTRICT ISS FILE, WPC FILE
6	6	REGULATORY STATUS	DISTRICT PERMIT, ISS FILES

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Page No. C.

SUBJECT C. ENVIRONMENTAL SETTING, HYDROLOGICAL AND GEOLOGICAL CHARACTERISTICS

Category	Description	Category	Description
1	GEOLOGY	7	SOIL DATA
2	WELL LOCATION/CONSTRUCTION ON-SITE	8	ATMOSPHERIC DATA
3	WELL LOCATION/CONSTRUCTION OFF-SITE	9	PHOTOGRAPHS/MAPS
4	GROUNDWATER MONITORING DATA	10	OTHER
5	SURFACE WATER/FLOW DATA & ANALYSIS	11	
6	FLOODPLAIN DATA	12	

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	MAPS OF FACILITY	STATE RCRA ISS. PERMIT FILE
2	2	MAP OF ON SITE PRODUCTION WELLS	STATE RCRA INCIDENT FILE
3	4	GROUNDWATER MONITORING DATA	STATE RCRA INCIDENT FILE
4	7	SOIL DATA RESULTS	STATE RCRA INCIDENT FILE

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Page No. D.

SUBJECT D. WASTE CHARACTERIZATION

Category	Description	Category	Description
1	SOLID WASTES - RCRA IDENTIFIED	4	WASTES - STATE IDENTIFIED
1a	Description/Constituents	4a	Description/Constituents
1b	Amounts placed/spilled - Date	4b	Amounts placed/released
2	SOLID WASTES-ENFORCEMENT IDENTIFIED	5	INSPECTIONS
2a	Description/Constituents	6	STATE PERMITS
2b	Amounts placed/released	7	WASTES - PUBLIC IDENTIFIED
3	SOLID WASTES-CERCLA IDENTIFIED	8	WASTES - OTHER IDENTIFIED
3a	Description/Constituents	9	OTHER
3b	Amounts placed/released		

ITEM	CATEGORY	UNIT/ SPILL	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	1, 1b	1	RCRA IDENTIFIED, AMOUNTS, DATES	SWMU QUESTIONNAIRE
2	2, 2a, 2b	6, 28	UNPERMITTED ACTIVITY	DISTRICT INCIDENT REPORT FILE
3	1, 1a	10	DESCRIPTION/AMOUNTS PLACED	CDO DSHWM ISS FILE, SWMU QUESTIONNAIRE
4	1	22	RCRA IDENTIFIED WASTE	SWMU QUESTIONNAIRE
5	1, 1b	23	RCRA IDENTIFIED/ AMOUNTS PLACED	SWMU QUESTIONNAIRE DISTRICT ISS FILE
6	1, 1b	28	RCRA IDENTIFIED/AMOUNTS/ DATE	CDO, WPC, FILE
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: BURNING PITS (2) (i)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS	SWMU QUESTIONNAIRE
2	3	INACTIVE/ 1954 - 1965; 1954 - 1970	SWMU QUESTIONNAIRE
3	2	DESCRIPTION OF WASTES RECEIVED	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: RIVER RAVINE LANDFILLS I&II (ii)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS	SWMU QUESTIONNAIRE
2	3	INACTIVE/ 1956 - 1970	SWMU QUESTIONNAIRE
3	2	DESCRIPTION OF WASTES RECEIVED	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: LANDFILL (PIT) (III)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE RECEIVED	SWMU QUESTIONNAIRE
3	3	INACTIVE / 1968-1970	

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: LANDFILL (OPEN AREA) (iv)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	2	DESCRIPTION OF WASTE RECEIVED	SWMU QUESTIONNAIRE
2	3	INACTIVE / 1972	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: GROUNDWATER STRIPPER (V)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE RECEIVED	SWMU QUESTIONNAIRE, WPC CDO FILE
3	3	1986 - PRESENT	SWMU QUESTIONNAIRE
4	4	NPDES, AIR POLLUTION CONTROL	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: SLUDGE BASIN (vi)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS	SWMU QUESTIONNAIRE
2	2	WASTEWATER TREATMENT SLUDGE	SWMU QUESTIONNAIRE
3	3	1985 - PRESENT	SWMU QUESTIONNAIRE
4	6	RCRA INSPECTION	CDO, OSHWM ISS FILE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: SOUTH AND NORTH INCINERATORS (vii)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	1	DESCRIPTION OF UNIT	DAPC, CDO FILE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1972 - PRESENT	SWMU QUESTIONNAIRE
4	4	DAPC PERMIT	DAPC FILE, SWMU QUESTIONNAIRE
5	9	DAPC PERSONNEL	DAPC, CDO

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: KAPTON COLLECTED SOLVENT TANKS (VIII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

+++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	CAPACITY OF UNITS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1965 - PRESENT	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: KAPTON TANK FARM SUMPS (IX)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	CAPACITY	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1980-PRESENT, 1965-PRESENT	SWMU QUESTIONNAIRE
4	5	CONCRETE BASINS FOR SPILL CONTROL	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: SP RESIN COLLECTED SOLVENT TANK (x)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	50,000 GALLONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1980 - PRESENT	SWMU QUESTIONNAIRE
4	5	CONCRETE DIKES FOR CONTAINMENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: USED TRIETHYLENE GLYCOL TANK (xi)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	14,400 GALLONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE	SWMU QUESTIONNAIRE
3	3	1954 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: MOBILE EQUIPMENT CLEANING STATION (XII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS OF UNIT	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1975 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: CRL CLEANING SOLUTION COLLECTION TANK (xiii)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1969 - 1977	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: USED OIL DRUM PAD (XIV)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1954 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: KAPTON WASTE DRUM PAD (XV)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1963 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: TRIETHYLENE GLYCOL SLUDGE TANK (XVI)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	4000 GALLON	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1965 - PRESENT	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: CATTLE BARN ASBESTOS (xvii)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1975 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: SANITARY TRASH (XVIII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	CAPACITY OF UNITS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE	SWMU QUESTIONNAIRE
3	3	1954 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: FARM FEED PIT (xix)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSION	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1954 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: DRY SUMP (XX)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTIONS OF WASTES	SWMU QUESTIONNAIRE
3	3	1956 - 1978	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: SHALLOW BURNING PIT (XXI)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTIONS OF WASTE	SWMU QUESTIONNAIRE
3	3	1965-1972	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: CHEMICAL WASTE BURNING PIT (XXII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	TYPES OF WASTES	SWMU QUESTIONNAIRE
3	3	1966 - 1971	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: RCRA SATELLITE ACCUMULATION AREA (XXIII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	TYPES OF WASTES	SWMU QUESTIONNAIRE, C.D.C. DSHWM FILE
3	3	1980 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: SLUDGE DRYING BEDS (xxiv)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	WASTEWATER SLUDGE	SWMU QUESTIONNAIRE
3	3	1954 - 1970	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: FUEL OIL PIT (XXV)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	5000 GALLONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1954 - PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: ADDITIVE 19 LIMESTONE PIT (XXVi)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

+++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE	SWMU QUESTIONNAIRE
3	3	1979- PRESENT	SWMU QUESTIONNAIRE

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: WEST ADDITIVE 19 LIMESTONE PIT (xxvii)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE	SWMU QUESTIONNAIRE
3	3	1985- PRESENT	SWMU QUESTIONNAIRE

TPS-18 (06/13/86)

Facility EI DUPONT DE NEMOURS
I.D. No. OHD004287322
Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: BIO-PONDS (2) (SURFACE IMPOUNDMENTS) (XXVIII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	ACRES / CAPACITY	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE / DSHWM FILE
3	3	1970-PRESENT	SWMU QUESTIONNAIRE
4	4	NPDES PERMIT	SWMU QUESTIONNAIRE, CDO WPC AND DSHWM FIL
5	6	RCRA INSPECTION	CDO DSHWM ISS FILE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: USED CAUSTIC TANKS (2) (XXIX)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	750 GALLONS EACH	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTE	SWMU QUESTIONNAIRE
3	3	1965 - PRESENT	SWMU QUESTIONNAIRE
4	5	ON PAD ABOVE GROUND	SWMU QUESTIONNAIRE

TPS-18 (06/13/86)

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SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: EAST AND NORTH SETTLING BASINS WITH 2 SUMPS (XXX)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	DIMENSIONS OF UNITS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1965 - PRESENT	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: KAPTON FILTER WASH NEUTRALIZATION BASIN (XXXI)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	WASTE DESCRIPTION	SWMU QUESTIONNAIRE
3	3	1965 - PRESENT	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: MYLAR NEUTRALIZATION BASIN (XXXII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTIONS OF WASTE	SWMU QUESTIONNAIRE
3	3	1954 - PRESENT	SWMU QUESTIONNAIRE

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: KAPTON NEUTRALIZATION BASIN (XXXIII)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTIONS OF WASTE	SWMU QUESTIONNAIRE
3	3	1963 - PRESENT	SWMU QUESTIONNAIRE

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Facility EI DU PONT DE NEMOURS

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: S P SUMP (xxxiv)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

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ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	9	UNIT DIMENSIONS	SWMU QUESTIONNAIRE
2	2	DESCRIPTION OF WASTES	SWMU QUESTIONNAIRE
3	3	1980- PRESENT	SWMU QUESTIONNAIRE

TPS-18 (06/13/86)

Facility EI DUPONT DE NEMOURS

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Page No. E.

SUBJECT E. UNIT/SPILL SPECIFIC INFORMATION

UNIT/SPILL: HAZARDOUS WASTE PAD (XXXV)

Category	Description	Category	Description
1	ENGINEERING DESCRIPTION/PHOTOGRAPHS	6	RCRA INSPECTIONS
2	WASTES	7	PUBLIC SUPPLIED INFORMATION
3	OPERATIONAL STATUS/DATES OF USAGE	8	LOCATION
4	PERMITS	9	OTHER
5	ADEQUACY TO PREVENT RELEASES		

++

ITEM	CATEGORY	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	2	LIST OF WASTES	DSHWM, CDO FILES (PERMIT)
2	9	UNIT DIMENSIONS	DSHWM CDO ISS FILE
3	4	PART A PERMIT	DSHWM ISS + PERMIT FILES, CDO
4	5	INSPECTIONS AS REQUIRED	DSHWM ISS FILE, CDO

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SUBJECT F. KNOWN & SUSPECTED RELEASES & EXPOSURE POTENTIAL

Category	Description	Category	Description
1	GROUNDWATER	5	CONTAMINATED SOLIDS DISPERSION
1a	Actual releases	5a	Actual releases
1b	Potential releases	5b	Potential releases
1c	Pathways	5c	Pathways
1d	Potential/actual Exposure (human)	5d	Potential/actual Exposure (human)
1e	Activities affected by a release	5e	Activities affected by a release
2	SURFACE WATER	6	TRANSPORTATION RELATED
2a	Actual releases	6a	Actual releases
2b	Potential releases	6b	Potential releases
2c	Pathways	6c	Pathways
2d	Potential/actual Exposure (human)	6d	Potential/actual Exposure (human)
2e	Activities affected by a release	6e	Activities affected by a release
3	AIR	7	FOOD CHAIN CROPS
3a	Actual releases	7a	Actual releases
3b	Potential releases	7b	Potential releases
3c	Pathways	7c	Pathways
3d	Potential/actual Exposure (human)	7d	Potential/actual Exposure (human)
3e	Activities affected by a release	7e	Activities affected by a release
4	SUBSURFACE GAS	8	PUBLIC COMPLAINTS/CONCERNS
4a	Actual releases	9	OTHER
4b	Potential releases		
4c	Pathways		
4d	Potential/actual Exposure (human)		
4e	Activities affected by a release		

ITEM	CATEGORY	UNIT/ SPILL	DESCRIPTION/DATES/COMMENTS	LOCATION OF INFORMATION
1	2, 2c	28	UNIT EFFLUENT (RELEASE) RESULTS	CDO, WPC FILE

TPS-19 (06/13/86)

PRELIMINARY REVIEW REPORT (PR)
RCRA FACILITY ASSESSMENT (RFA)

1. Facility Name E.I. DUPONT DE NEMOURS AND COMPANY INC.
EPA ID # OHD004287322
Preparer ANDREW D. KUBALAK
Date AUGUST 21, 1987

2. General Description of Facility and Processes:

A. Description: THE DUPONT DE NEMOURS AND COMPANY, INC. FILM PLANT IS LOCATED IN PICKAWAY TOWNSHIP, PICKAWAY COUNTY. THE FACILITY IS LOCATED ABOUT 3.5 MILES SOUTH OF CIRCLEVILLE ON THE WEST SIDE OF U.S. ROUTE 23. THE IMMEDIATE SURROUNDINGS ARE RURAL WITH BOTH LIGHT AND MODERATE INDUSTRIAL FACILITIES IN THE AREA.

E.I. DUPONT DE NEMOURS AND COMPANY, INC. IS A RCRA PERMITTED FACILITY AND OPERATES AS A TREATMENT, STORAGE, DISPOSAL FACILITY.

THE FACILITY MANUFACTURES MYLAR POLYESTER FILM TEFLON, KAPTON AND S P RESIN. A DESCRIPTION OF HOW THESE PRODUCTS ARE MANUFACTURED, INCLUDING RAW MATERIALS USED AND FINAL PRODUCTS PRODUCED, IS ATTACHED.

LABORATORY WASTES WHICH DISPLAY CHARACTERISTICS OF A HAZARDOUS WASTE ARE STORED IN 55 GALLON DRUMS
(CONTINUED)

B. Information on Solid Waste Management Units (attach additional sheets as needed):

Unit	Release (yes/no/unknown/suspected)
i. BURNING PITS (2) #1 ON SWMU MAP	UNKNOWN
ii. RIVER RAVINE LANDFILLS I & II #2 AND #3 ON SWMU MAP	UNKNOWN
iii. LANDFILL (PIT) #4 ON SWMU MAP	UNKNOWN
iv. LANDFILL (OPEN AREA) #5 ON SWMU MAP	UNKNOWN
v. GROUNDWATER STRIPPER #6 ON SWMU MAP	UNKNOWN
vi. SLUDGE BASIN #7 ON SWMU MAP	UNKNOWN
vii. SOUTH AND NORTH INCINERATORS #8 ON SWMU MAP	UNKNOWN
viii. KAPTON SOLVENT TANKS #9 ON SWMU MAP	UNKNOWN
ix. KAPTON TANK FARM SUMPS (2) #9A ON SWMU MAP	UNKNOWN
x. SP RESIN COLLECTED SOLVENT TANK #10 ON SWMU MAP	UNKNOWN

2. A. DESCRIPTION: SPENT ACETONE CONTAINING PYRIDINE IS STORED IN A 50,000 GALLON TANK PRIOR TO BEING SHIPPED OFF-SITE FOR RECYCLING.

GROUNDWATER WHICH IS CONTAMINATED WITH 1,1-DICHLOROETHYLENE (U078) IS TREATED AND IMMEDIATELY DISCHARGED TO THE SCIOTO RIVER. THE FACILITY HAS AN NPDES PERMIT AND AN AIR PERMIT FOR THIS DISCHARGE. PRIOR TO JULY 1986, THE FACILITY USED THEIR NORTH AND SOUTH BIO-PONDS (SURFACE IMPOUNDMENTS FOR THE TREATMENT AND STORAGE OF HAZARDOUS WASTE (U078). THESE SURFACE IMPOUNDMENTS ARE INDICATED AS SOLID WASTE MANAGEMENT UNIT NUMBER 28.

FOLLOWING DISCOVERY OF THE 1,1-DICHLOROETHYLE LEAK, GROUND WATER SAMPLES, SOIL BORING AND DEEP WELL BORING SAMPLES WERE COLLECTED. WELL DRILLING LOGS FROM THIS STUDY SHOW SAND AND GRAVEL DEPOSITS INTERBEDDED WITH DEPOSITS OF CLAY. A COPY OF THE STUDY IS INCLUDED

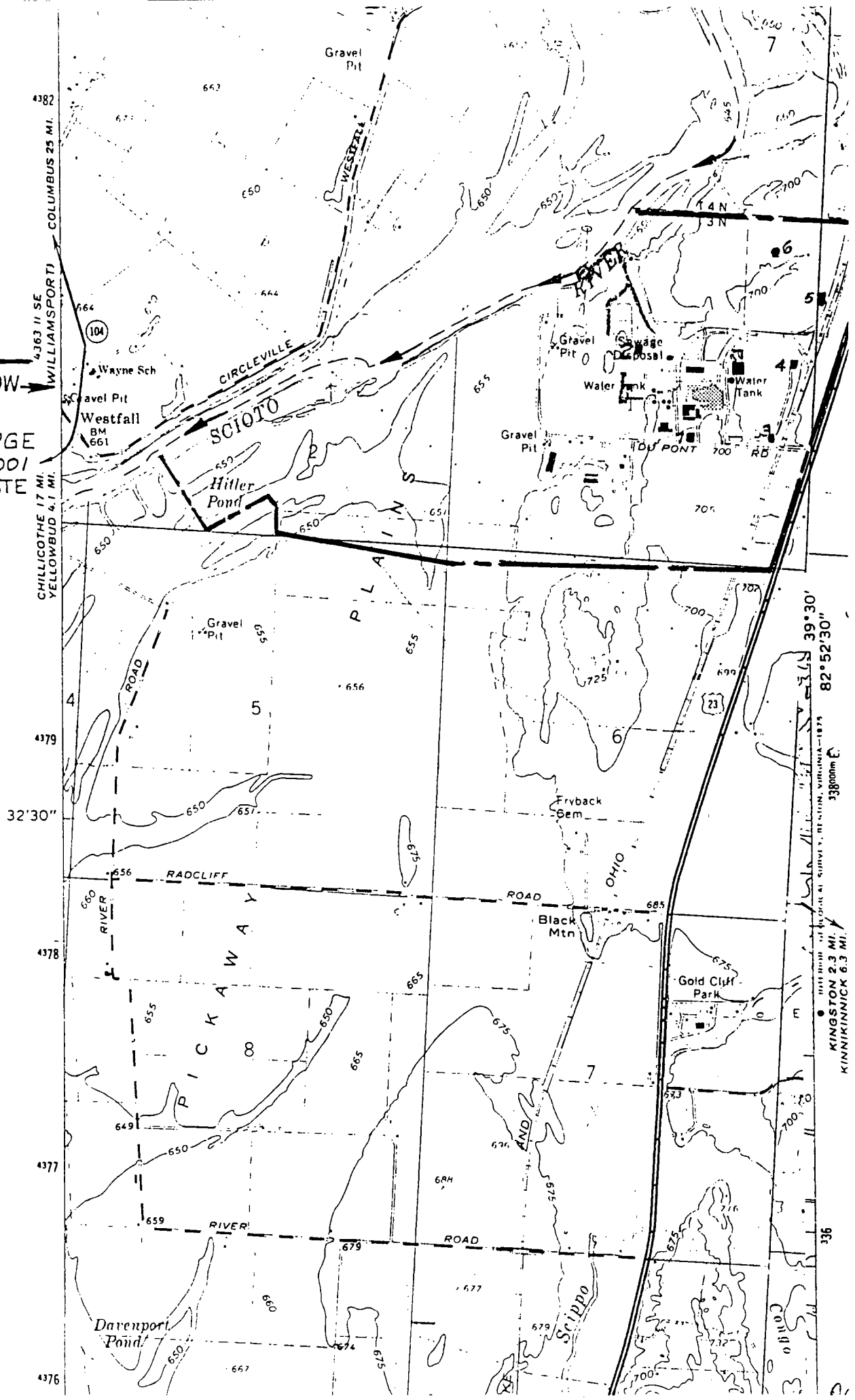
BEDROCK OF THIS AREA IS THE BLACK OHIO SHALE OF DEVONIAN AGE. THERE ARE ALTERNATING LAYERS OF SAND AND GRAVEL DEPOSITS WHICH AVERAGE 150 FEET OF THICKNESS. THESE DEPOSITS ARE CONTIGUOUS IN THE CIRCLEVILLE AREA.

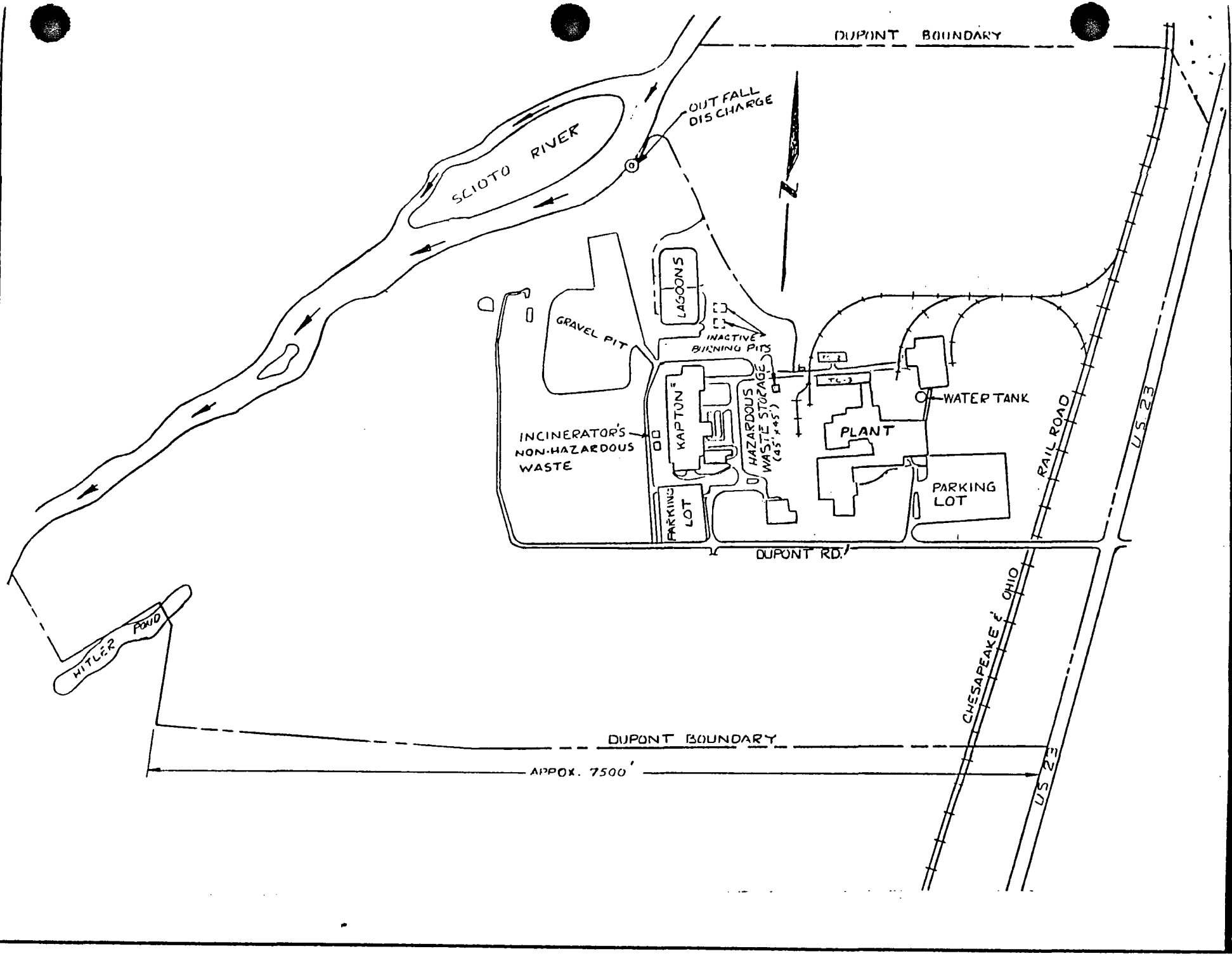
UNIT	RELEASE (YES/NO/UNKNOWN/SUSPECTED
xi. USED TRIETHYLENE GLYCOL TANK #11 ON SWMU MAP	UNKNOWN
xii. MOBILE EQUIPMENT CLEANING STATION #12 ON SWMU MAP	UNKNOWN
xiii. CRL CLEANING SOLUTION COLLECTION TANK #13 ON SWMU MAP	UNKNOWN
xiv. USED OIL DRUM PAD #14 ON SWMU MAP	UNKNOWN
xv. KAPTON WASTE DRUM PAD #15 ON SWMU MAP	UNKNOWN
xvi. TRIETHYLENE GLYCOL SLUDGE TANK #16 ON SWMU MAP	UNKNOWN
xvii. CATTLE BARN ASBESTOS #17 ON SWMU MAP	UNKNOWN
xviii. SANITARY TRASH	UNKNOWN
xix. FARM FEED PIT #18 ON SWMU MAP	UNKNOWN
xx. DRY SUMP #19 ON SWMU MAP	UNKNOWN
xxi. SHALLOW BURNING PIT #20 ON SWMU MAP	UNKNOWN
xxii. CHEMICAL WASTE BURNING PIT #21 ON SWMU MAP	UNKNOWN
xxiii. RCRA SATELLITE ACCUMULATION AREA #22 ON SWMU MAP	UNKNOWN

UNIT	RELEASE (YES/NO/UNKNOWN/SUSPECTED)
XXIV. SLUDGE DRYING BEDS #23 ON SWMU MAP	UNKNOWN
XXV. FUEL OIL PIT #24 ON SWMU MAP	UNKNOWN
XXVI. ADDITIVE 19 LIMESTONE PIT #25 ON SWMU MAP	UNKNOWN
XXVII. WEST ADDITIVE 19 LIMESTONE PIT #26 ON SWMU MAP	UNKNOWN
XXVIII. BIO-PONDS (2)(SURFACE IMPOUNDMENTS) #27 ON SWMU MAP	YES.
XXIX. USED CAUSTIC TANKS #28 ON SWMU MAP	UNKNOWN
XXX. EAST AND NORTH SETTLING BASINS WITH 2 SUMPS #29 ON SWMU MAP	UNKNOWN
XXXI. KAPTON FILTER WASH NEUTRALIZATION BASIN #30 ON SWMU MAP	UNKNOWN
XXXII. MYLAR NEUTRALIZATION BASIN #31 ON SWMU MAP	UNKNOWN
XXXIII. KAPTON NEUTRALIZATION BASIN #32 ON SWMU MAP	UNKNOWN
XXXIV. S P SUMP #33 ON SWMU MAP	UNKNOWN
XXXV. HAZARDOUS WASTE PAD	UNKNOWN

LEGEND

BOUNDRY LINE
WATER CURRENT FLOW
WELLS 2-7
OUT FALL DISCHARGE LINE 001
HAZARDOUS WASTE STORAGE




DUPONT BOUNDARY
OUT FALL DISCHARGE
SCIOTO RIVER
N
LAGOONS
GRAVEL PIT
INACTIVE BURNING PITS
KAPTON
HAZARDOUS WASTE STORAGE (45' x 45')
INCINERATOR'S NON-HAZARDOUS WASTE
PARKING LOT
WATER TANK
PLANT
PARKING LOT
RAIL ROAD
US 23
DUPONT RD.
CHESAPEAKE & OHIO
HITLER POND
DUPONT BOUNDARY
APPOX. 7500'
US 23

A.4.b.

3. Specific Unit Information (prepare one for each unit):

A. Unit Type: BURNING PITS (2) Regulatory Status: UNREGULATED
Age: 33 YEARS EACH
Capacity: UNKNOWN
Period of Operation: 1954-1965 ; 1954-1970
Waste Type: SEE PAGE 7
Volume: 2850 yd³ ; 2850 yd³
Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE TWO BURNING PITS WERE OPEN BURNING AREAS USED FOR DISPOSAL. THESE PITS HAVE BEEN FILLED IN WITH DIRT. THE DIMENSIONS OF EACH OF THESE BURNING PITS WAS 80' x 80' x 12' deep.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: SOIL BORING SAMPLES AND MONITORING WELLS SHOULD BE INSTALLED AND GROUNDWATER SAMPLES COLLECTED TO DETERMINE IF A RELEASE FROM THESE UNITS HAS OCCURRED.

D. Environmental Setting: THE INACTIVE BURNING PITS ARE LOCATED SOUTHEAST OF THE SOUTHERNMOST S- IMPOUNDMENT.

PLEASE SEE THE SOLID WASTE MANAGEMENT UNIT (SWMU MAP ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: DETERMINE EXACTLY WHICH LAB CHEMICALS WERE DISPOSED OF IN THESE UNITS.

DETERMINE IF THERE IS ANY VISUAL EVIDENCE OF RELEASE FROM THESE UNITS.

3.i A. WASTE TYPE : INERT POLYESTER FILM
MONOMER
POLYMER
OIL
GREASE
LAB CHEMICALS
PACKAGING
CONSTRUCTION MATERIALS

HAZARDOUS CONSTITUENTS: LAB CHEMICALS

3. Specific Unit Information (prepare one for each unit):

A. Unit Type: RIVER RAVINE LANDFILLS I & II
Regulatory Status: UNREGULATED
Age: 31 YEARS ; 34 YEARS
Capacity: UNKNOWN
Period of Operation: 1956-1970 ; 1953-1955
Waste Type: SEE PAGE 7
Volume: 4,600 yd³ ; 1,100 yd³
Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE RIVER RAVINE LANDFILLS I & II WERE USED TO DISPOSE OF WASTE ON SITE. THE DIMENSIONS OF RIVER RAVINE I ARE 100' x 50' x 25' DEEP. THE DIMENSIONS OF RIVER RAVINE II ARE 30' x 50' x 20' DEEP. THE BANK WAS EXTENDED BY COVERING THE MATERIAL WITH FILL DIRT.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: SOIL BORING SAMPLES AND MONITORING WELLS SHOULD BE INSTALLED AND GROUNDWATER SAMPLES COLLECTED TO DETERMINE IF A RELEASE FROM THESE UNITS HAS OCCURRED.

D. Environmental Setting: THE RIVER RAVINE LANDFILLS I & II ARE LOCATED ON THE NORTHERN SIDE OF THE SURFACE IMPOUNDMENTS, ON THE EAST AND WEST SIDE OF THE RAILROAD TRACKS, JUST EAST OF THE GRAVEL PIT.

PLEASE SEE THE SWMU MAP ATTACHED.

Additional Information Needed: NONE.

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: DURING THE VSI, A DETERMINATION SHOULD BE MADE REGARDING VISUAL EVIDENCE OF RELEASE FROM THESE UNITS.

3.ii.A. WASTE TYPE: RIVER RAVINE I: CONSTRUCTION MATERIALS, NON COMBUSTIBLES REMOVED FROM BURNING PITS (UNIT

RIVER RAVINE II: INERT POLYESTER MILL ROLL
MONOMER
POLYMER
CONSTRUCTION MATERIALS

HAZARDOUS CONSTITUENTS: UNKNOWN

3. Specific Unit Information (prepare one for each unit):

iii A. Unit Type: PIT (LANDFILL) Regulatory Status: UNREGULATED
Age: 19 YEARS
Capacity: UNKNOWN
Period of Operation: 1968 to 1970
Waste Type: POLYESTER MONOMER
Volume: 150 yd³
Hazardous Constituents (attach separate sheet): NONE

B. Unit Description: THE PIT LANDFILL DIMENSIONS ARE 10' x 40' x 10' DEEP. THE PIT IS NO LONGER USED FOR ON SITE DISPOSAL AND HAS BEEN FILLED IN WITH DIRT.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE PIT LANDFILL IS LOCATED NORTH-WEST OF THE NORTHERN SURFACE IMPOUNDMENT.

PLEASE SEE THE SWMU MAP ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: NONE

3. Specific Unit Information (prepare one for each unit):

V. A. Unit Type: GROUND WATER STRIPPER
Age: 1986 - PRESENT
Capacity: 34' Hx ~ 8' DIAMETER
Period of Operation: 1986 - PRESENT
Waste Type: CONTAMINATED GROUNDWATER
Volume: VARIES
Hazardous Constituents (attach separate sheet): 1,1-DICHLOROETHYLENE (U07

Regulatory Status: OHIO AIR POLLUTION CONTROL PERMIT

NPDES PERMIT

B. Unit Description: THIS UNIT WAS INSTALLED BECAUSE AN UNDERGROUND TRANSFER LINE HAD LEAKED 1,1-DICHLOROETHYLE WHICH HAD LEAKED INTO THE GROUND.

THOUSANDS OF CUBIC FEET OF AIR ARE BLOWN THROUGH THE WATER EACH MINUTE. THE 1,1-DICHLOROETHYLENE IS DISCHARGED DIRECTLY TO THE ATMOSPHERE WITHOUT ANY ADDITIONAL TREATMENT.

THE STRIPPED WATER IS DISCHARGED TO THE STORM WATER SYSTEM AND TO THE SCIOTO RIVER.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE GROUND WATER STRIPPER IS INDICATED AS NUMBER 6 ON THE SWMU MAP.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNNECESSARY BECAUSE THIS UNIT HAS BEEN REVIEWED DURING PREVIOUS RCRA INSPECTIONS.

3. Specific Unit Information (prepare one for each unit):

XXIXA. Unit Type: USED CAUSTIC TANKS Regulatory Status: UNREGULATED
Age: 22 YEARS
Capacity: EACH 750 GALLONS
Period of Operation: 1965 - PRESENT
Waste Type: CAUSTIC AND WATER
Volume: INCLUDED IN 4 MM GPD WASTEWATER EFFLUENT
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE TWO USED CAUSTIC TANKS ARE ABOVE GROUND TANKS AND ARE USED FOR NEUTRALIZATION AND STORAGE. THE TANKS ARE LOCATED ON A PAD.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE USED CAUSTIC TANKS ARE INDICATED BY NUMBER 28 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF A RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):
EAST AND NORTH SETTLING

XXXA. Unit Type: BASIN WITH SUMPS (2) Regulatory Status: UNREGULATED
Age: 22 YEARS
Capacity: SEE PAGE 7
Period of Operation: 1965 - PRESENT
Waste Type: SARAN SLUDGE AND WATER
Volume: 236,000 lbs/YEAR SLUDGE DECANTED
Hazardous Constituents (attach separate sheet):

B. Unit Description: THIS UNIT IS A BELOW GROUND TREATMENT AND STORAGE TANK. THE UNIT IS A CONCRETE BASIN USED FOR SETTLING SLUDGE OUT OF PROCESS WASTE WATER.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THIS UNIT IS INDICATED AS NUMBER 29 ON THE SWMU MAP, WHICH IS ENCLOSED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF A RELEASE.

3.XXX.A. CAPACITY: EAST: 8' x 24' x 7' DEEP
NORTH: 19' x 8' x 6' DEEP
S: 5' Φ x 8' DEEP (2)

3. Specific Unit Information (prepare one for each unit):

KAPTON FILTER WASH

XXXIA. Unit Type: NEUTRALIZATION UNIT Regulatory Status: UNREGULATED
Age: 22 YEARS
Capacity: 5' X 3' X 1'
Period of Operation: 1965 - PRESENT
Waste Type: FILTER CLEANING WASH WATER
Volume: INCLUDED IN 4mm GPD SITE WASTE WATER EFFLUENT
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE KAPTON FILTER WASH NEUTRALIZATION UNIT IS A BELOW GROUND WASTE WATER TREATMENT UNIT. THIS UNIT CONSISTS OF A CONCRETE BASIN WHICH CONTAINS LIMESTONE TO INSURE NEUTRAL pH OF WASH WATER TO PROCESS SEWER.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE KAPTON FILTER WASH NEUTRALIZATION UNIT IS INDICATED BY NUMBER 30 ON THE SWMU MAP, WHICH IS ENCLOSED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS NOT WARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF A RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XXXIIA. Unit Type: MYLAR NEUTRALIZATION BASIN Regulatory Status: UNREGULATED
Age: 33 YEARS
Capacity: 6' x 4' x 5' DEEP
Period of Operation: 1954 - PRESENT
Waste Type: SEE PAGE 7
Volume: INCLUDED IN 4 MM GPD WASTEWATER EFFLUENT
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE MYLAR NEUTRALIZATION BASIN IS A BELOW GROUND WASTEWATER TREATMENT UNIT. DIMENIMUS QUANTITIES OF LABORATORY CHEMICALS IN WASTE WATER ENTER A CONCRETE BASIN WHICH CONTAINS LIMESTONE TO INSURE NEUTRAL PH OF WASTE WATER FROM LABORATORY TO PROCESS SEWER.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE MYLAR NEUTRALIZATION BASIN IS INDICATED BY NUMBER 31 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION OF THE MYLAR NEUTRALIZATION BASIN IS UNWARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. xxxii. A. WASTE TYPE: DIMENIMUS QUANTITIES OF LABORATORY CHEMICALS IN WASTE WATER

3. Specific Unit Information (prepare one for each unit):

xxxiiiA. Unit Type: KAPTON NEUTRALIZATION BASIN Regulatory Status: UNREGULATED
Age: 24 YEARS
Capacity: 5' x 3' x 4' DEEP
Period of Operation: 1963 - PRESENT
Waste Type: SEE PAGE 7
Volume: INCLUDED IN 4mm GPD WASTEWATER EFFLUENT
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE KAPTON NEUTRALIZATION BASIN IS A BELOW GROUND WASTE WATER TREATMENT UNIT. DIMENIMUS QUANTITIES OF LABORATORY CHEMICALS IN WASTE WATER ARE DISCHARGED TO THE CONCRETE BASIN WHICH CONTAINS LIMESTONE TO INSURE NEUTRAL pH OF WASTE WATER TO PROCESS SEWER

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE KAPTON NEUTRALIZATION BASIN IS INDICATED BY NUMBER 32 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. xxxiii A. WASTE TYPE: DIMENIMUS QUANTITIES OF LABORATORY CHEMICALS IN WASTE WATER

3. Specific Unit Information (prepare one for each unit):

XXXIVA. Unit Type: SP SUMP Regulatory Status: UNREGULATED
Age: 7 YEARS
Capacity: 10'X10'X10' DEEP
Period of Operation: 1980 - PRESENT
Waste Type: SEE PAGE 7
Volume: INCLUDED IN 4min GPD WASTEWATER EFFLUENT
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE S P SUMP IS AN UNDERGROUND STORAG TANK WHICH IS USED AS A COLLECTION BASIN FOR WASTE WATER FOR TESTING BEFORE DISCHARGING TO PROCESS SEWER.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE SP SUMP IS INDICATED AS NUMBER 33 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. XXXIV. A. WASTE TYPE: WASH AND RINSE WATER FROM PROCESS EQUIPMENT AND BUILDING DRAINS. WATER MAY CONTAIN DIMENIMUS QUANTITY OF PYR

3. Specific Unit Information (prepare one for each unit):

XXXV.A. Unit Type: HAZARDOUS WASTE PAD
Age:
Capacity: 16,000 GALLONS
Period of Operation:
Waste Type: D001, D002, D003, F002, F003, U080
Volume: VARIES
Hazardous Constituents (attach separate sheet): SPENT SOLVENTS, DICHLOROMETHANE IGNITABILITY, CORROSIVITY, REACTIVITY

Regulatory Status: RCRA TSD STATUS

B. Unit Description: THIS UNIT IS A CONCRETE PAD FOR THE STORAGE OF RCRA WASTES. IT IS A 45' X 45' FENCED-IN AREA. THIS UNIT IS USED TO STORE HAZARDOUS WASTE WHICH IS GENERATED ON SITE UNTIL PROPER DISPO. OFF-SITE IS ARRANGED.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: _____

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION WAS MADE AT THE TIME OF THE LAST RCRA TSD INSPECTION. THERE WAS NO VISIBLE SIGN OF RELEASE FROM THIS UNIT AT THAT TIME

OhioEPA
State of Ohio Environmental Protection Agency
P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149

Toward A Cleaner Environment
15 Year Anniversary
1972 - 1987

Richard F. Celeste
Governor

June 29, 1987

Re: E. I. du Pont de Nemours & Co.
Director's Final Findings & Orders
US EPA ID No.: OHD004287322
Ohio Permit No.: 01-65-0043

E. I. du Pont de Nemours and Company
Attn: James D. Schoonover, Plant Manager
U.S. Route 23 South
P.O. Box 89
Circleville, Ohio 43113

Dear Mr. Schoonover:

Transmitted herewith are Findings and Orders of the Director concerning the matter indicated.

Very truly yours,

Thomas E. Crepeau

Thomas E. Crepeau
Program Planning and Management Section
Division of Solid and Hazardous Waste Management

TEC/dhs

cc: Guy Johnson, Counsel, E. I. du Pont
R. E. Austin, Counsel, E. I. du Pont
H. F. Canfield, Jr., Plant Manager
Virginia Aveni, Deputy Director
Mike Savage, Manager, S&ES, DSHWM
Steve Rath, Lundy Adelsberger, CDO
Al Franks, PIC

RECEIVED
JUN 30

Issue Date June 29, 1987

Effective Date June 29, 1987

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

E. I. du Pont de Nemours & Co. U. S. Route 23 South P. O. Box 89 Circleville, Ohio 43113	:	Director's Final Findings and Orders

Pursuant to Revised Code 3734.13, the Director of Environmental Protection hereby makes the following Findings and issues the following Orders:

FINDINGS

1. Vinylidene chloride ("VDC") is used in the coating of "Mylar" films manufactured at the E. I. du Pont de Nemours & Company ("Du Pont") plant, a "facility", as that term is defined in Ohio Revised Code ("ORC") Section 3734.01(N), located near Circleville, Ohio.

2. Pursuant to and under the conditions described in Ohio Administrative Code ("OAC") Rule 3745-51-33, vinylidene chloride, commonly known as 1,1-dichloroethylene, is a "hazardous waste", when intentionally discarded or pursuant to the cleanup of a spill.

3. On or about May 5, 1981, a leak was suspected in the underground transfer line used at the facility to transfer VDC from the storage tank to the production plant. The suspected leak was confirmed by Du Pont on May 7, 1981.

4. On May 8, 1981, Du Pont reported the leak of VDC to the Ohio EPA Office of Emergency Response.

5. Du Pont undertook a hydrogeological study to determine the extent of contamination resulting from the VDC leak. The hydrogeological study included the installation of a network of monitoring wells, and two recovery wel

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JUN 29 1987

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

By: Mary Cavan Date 6-29-87

6. Based on the findings contained in the hydrogeological study conducted by Du Pont, Ohio EPA determined that groundwater underlying the facility was contaminated with VDC.

7. Rather than allow the VDC contaminated groundwater to migrate away from the facility, and thereby extend the area of contamination, Du Pont notified Ohio EPA that it intended to use the recovery wells to pump the contaminated groundwater to the surface for discharge into two surface impoundments identified by Du Pont as the "north and south bio-ponds". Periodically sludge from the north bio-pond has been pumped to an auxiliary holding area for dewatering.

8. Du Pont installed an air-stripping unit at the facility in July 1986 to treat the contaminated groundwater. Du Pont installed this unit because of the increased hydraulic pumping rate necessary to better control the spread of the area of contamination. The water discharged via such treatment is not subject to Ohio's hazardous waste regulations.

9. Ohio EPA has concluded that Du Pont was conducting unauthorized activities by using the two surface impoundments and auxiliary drying area for storage of a hazardous waste and for treatment of such wastes by biological treatment and/or volatilization (or evaporation), in violation of its hazardous waste permit and in violation of ORC 3734.02.

ORDERS

1. Du Pont shall within one hundred fifty (150) days after the effective date of these Findings and Orders:

   a. Submit to the Administrator, USEPA, a petition to delist the waste in question in accordance with 40 CFR Part 260, Subpart C Section 260.20 and 260.22. A copy of this petition shall be sent to Ohio EPA to document Du Pont's compliance with this Order.

2. Du Pont shall, during the period of time between the effective date of these Findings and Orders and until a final decision is rendered on Du Pont's delisting petition, dispose of all wastes subject to the petition generated and stored on-site in accordance with all applicable requirements of Ohio's hazardous waste laws and regulations.

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By: Mary Caven Date 6-29-87

3. If it is the USEPA Administrator's final decision, with full consideration of Du Pont's rights to administrative and judicial appeals, to deny Du Pont's delisting request submitted in accordance with these Orders, herein, then within 15 days of the date of such final decision regarding the Administrator's denial, Du Pont shall notify Ohio EPA of the Administrator's decision and Du Pont's intent to seek judicial review of said decision.

4. If Du Pont fails to appeal the USEPA Administrator's final decision to deny Du Pont's delisting petition, or Du Pont loses such appeal or appeals, Du Pont shall, within 15 days of said failure to appeal or of a final decision on appeal, notify Ohio EPA of such occurrence. Within 60 days of such notice, if the waste in question or portions thereof would be classified as hazardous under then-current valid USEPA or OEPA rules and regulations, then Du Pont shall submit a closure plan for the wastes so classified to the OEPA to comply with Ohio's hazardous waste regulations.

5. If the final decision by USEPA is to grant said delisting petition, Du Pont shall notify Ohio EPA within 15 days and thereafter manage all subject waste in accordance with applicable Ohio solid waste laws and regulations.

6. Du Pont shall contribute for Ohio EPA's administrative costs associated with this matter, the amount of $3,000.00 within 30 days of the effective date of these Orders to the "hazardous waste cleanup fund" created pursuant to Section 3734.28 of the Ohio Revised Code. Payment shall be made by delivering a check in that amount to counsel for the Director of Environmental Protection made payable to "Treasurer, State of Ohio".

WAIVER

Without admission of any facts, findings, violations or disability, that are the subject matter of these Orders, and in lieu of further enforcement action by Ohio EPA, or otherwise of further enforcement action relative to the matters addressed herein, Du Pont agrees that these Findings and Orders are lawful, economically reasonable, and that the times provided for compliance herein are reasonable and agrees to comply with these Orders. Du Pont, however, expressly reserves its right to contest said facts, findings, violations, or disability in any and all enforcement proceedings by Ohio EPA or USEPA other than actions to enforce these Orders.

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I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

By: Mary Carver Date 6-29-87

Du Pont hereby waives the right to appeal the issuance, terms, and service of these Orders, and it hereby waives any and all rights it might have to seek judicial review of said Orders either in law or equity. In the event that these Findings and Orders are appealed by any other party to the Environmental Board of Review or any court, nothing in these Findings and Orders shall preclude Du Pont's right to intervene in such appeal.

IT IS SO AGREED:

By: James O. Schoover

Title: Production Manager

Date: 5/15/87

IT IS SO ORDERED:

Warren W. Tyler
Director

Date: 6/25/87

Ohio Environmental Protection Agency
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GVJ/4/CIRCLEVDC

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

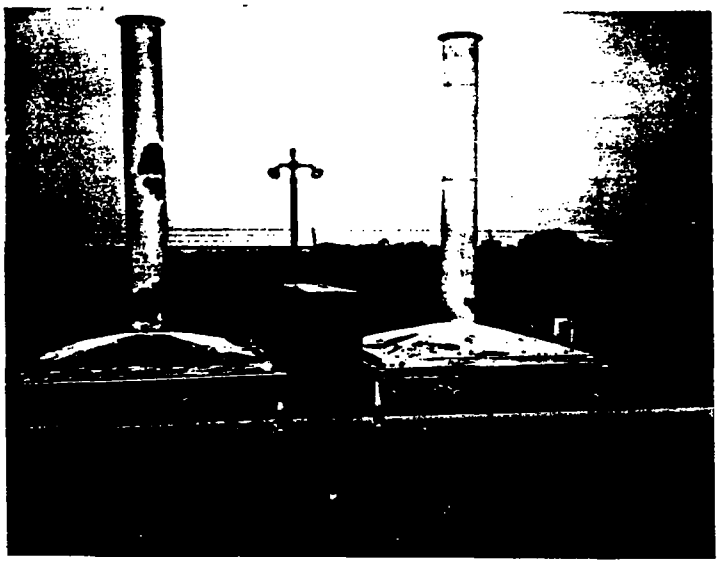
By: Nancy Carr Date: 6-29-87

3. Specific Unit Information (prepare one for each unit):

vii A. Unit Type: SOUTH AND NORTH INCINERATORS
Age: 15 YEARS
Capacity: 4'x3'x2' ; 4'x3'x2'
Period of Operation: 1972 - PRESENT
Waste Type: KAPTON POLYIMIDE GEL FILM
Volume: 30,000 lbs/YR ; 30,000 lbs/yr.
Hazardous Constituents (attach separate sheet): NONE

Regulatory Status: PERMITTED BY THE OHIO EPA DIVISION OF AIR POLLUTION CONTROL

B. Unit Description: THESE UNITS ARE NATURAL DRAFT DIRECT FED, SINGLE CHAMBER INCINERATORS



Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): UNKNOWN

Additional Information Needed:

D. Environmental Setting: THE SOUTH AND NORTH INCINERATORS ARE LOCATED AS NUMBER 8 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: NONE. A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME.

3. Specific Unit Information (prepare one for each unit):

viii A. Unit Type: KAPTON SOLVENT TANKS (3) Regulatory Status: UNREGULATED
Age: 22 YEARS
Capacity: 60,000 GAL.; 60,000 GAL.; 60,000 GAL.
Period of Operation: 1965 - PRESENT
Waste Type: SEE PAGE 7
Volume: 19 MM lbs / YR
Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE THREE SOLVENT TANKS HAVE CONCRETE DIKES FOR SECONDARY CONTAINMENT. THE TANKS ARE ALL ABOVE GROUND. THE SOLVENT IS SENT OFF SITE FOR RECLAMATION AND RETURNED FOR USE IN PROCESS.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE THREE KAPTON SOLVENT TANKS ARE LOCATED AS NUMBER 9 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: NONE, A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME. THERE IS NO VISUAL EVIDENCE OF RELEASE, OR SUSPICION OF RELEASE FROM THIS UNIT.

3.viii.A. WASTE TYPE: COLLECTED SOLVENT
DMAC
B-PICOLINE
WATER
ACETIC ACID

HAZARDOUS CONSTITUENTS:

3. Specific Unit Information (prepare one for each unit):

IXA. Unit Type: KAPTON TANK FARM SUMPS (2) Regulatory Status: UNREGULATED
Age: 7 YEARS ; 22 YEARS
Capacity: 1-5000 GALLONS ; 1-30 GALLONS
Period of Operation: 1980-PRESENT; 1965-PRESENT
Waste Type: SEE PAGE 7
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE TWO KAPTON TANK FARM SUMPS ARE BELOW GROUND. THEY ARE USED AS COLLECTION AND STORAGE BASINS PRIOR TO DISPOSAL. THEY ARE LOCATED IN CONCRETE BASINS FOR SPILL CONTROL OF RESIDUAL LIQUID FROM TRANSFER LINES.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE TWO KAPTON TANK FARM SUMPS ARE LOCATED AS NUMBER 9A ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: NONE, A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME. THERE IS NO VISUAL EVIDENCE OF RELEASE, OR SUSPICION OF RELEASE FROM THIS UNIT.

3.ix.A. WASTE TYPE : WATER
DMAC
B- PICOLINE
ACETIC ACID

HAZARDOUS CONSTITUENTS :

3. Specific Unit Information (prepare one for each unit):

X.A. Unit Type: SP RESIN COLLECTED SOLVENT TANK
Age: 7 YEARS
Capacity: 50,000 GALLONS
Period of Operation: 1980 - PRESENT
Waste Type: SEE PAGE 7
Volume: 3 MM lbs/YR.
Regulatory Status: RCRA REGULATED TANK; 90 DAYS OR LESS STORAGE
Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE SP RESIN COLLECTED SOLVENT TANK IS AN ABOVE GROUND TANK WHICH HAS CONCRETE DIKES FOR SECONDARY CONTAINMENT. THE COLLECTED SOLVENT IS SENT OFF SITE FOR RECLAMATION AND RETURNED FOR USE IN PROCESS.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE SP RESIN COLLECTED SOLVENT TANK IS LOCATED AS NUMBER 10 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME. THERE IS NO VISUAL EVIDENCE OF RELEASE, OR SUSPICION OF RELEASE FROM THIS UNIT.

3, x. A. WASTE TYPE: ACETONE
PYRIDINE
WATER

HAZARDOUS CONSTITUENTS:

3. Specific Unit Information (prepare one for each unit):

XI. A. Unit Type: USED TRIETHYLENE GLYCOL TANK Regulatory Status: UNREGULATED
Age: 33 YEARS
Capacity: 14,400 GALLONS
Period of Operation: 1954 - PRESENT
Waste Type: TRIETHYLENE GLYCOL
Volume: 63,000 lbs/YR
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE USED TRIETHYLENE GLYCOL TANK IS AN ABOVE GROUND TANK WHICH IS USED FOR STORAGE OF TRIETHYLENE GLYCOL, UNTIL IT IS SENT OFF SITE FOR RECLAMATION AND RETURNED FOR REUSE.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE USED TRIETHYLENE GLYCOL TANK IS INDICATED AS NUMBER 11 ON THE SWMU MAP WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE IS UNWARRANTED AT THIS TIME. THERE IS NO EVIDENCE OF RELEASE, OR SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XII.A. Unit Type: MOBILE EQUIPMENT CLEANING STATION Regulatory Status: UNREGULATED
Age: 12 YEARS
Capacity: 3' x 7' x 6' DEEP
Period of Operation: 1975 - PRESENT
Waste Type: DIRT, GREASE, WATER
Volume: 3000 GALLONS / YEAR
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE MOBILE EQUIPMENT CLEANING STATION IS A BELOW GROUND CONCRETE BASIN USED TO COLLECT GREASE, DIRT, ETC. PRIOR TO DISPOSAL

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE MOBILE EQUIPMENT CLEANING STATION IS INDICATED AS NUMBER 12 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME. THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XIII. A. Unit Type: CRL CLEANING SOLUTION COLLECTION TANK
Regulatory Status: UNREGULATED
Age: 18 YEARS
Capacity: 8' x 5' x 5' DEEP
Period of Operation: 1969 - 1977
Waste Type: SALT CLEANING SOLUTIONS
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE CRL CLEANING SOLUTION COLLECTION TANK IS A BELOW GROUND CONCRETE BASIN. THE UNIT HAS BEEN EMPTIED, TAKEN OUT OF SERVICE AND FILLED WITH SAND.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE CRL CLEANING SOLUTION COLLECTION TANK IS INDICATED AS NUMBER 13 ON THE SWMU MAP WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION OF THIS UNIT IS UNWARRANTED AT THIS TIME, THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

xiv A. Unit Type: USED OIL DRUM PAD
Age: 33 YEARS
Capacity: 50' x 50'
Period of Operation: 1954 - PRESENT
Waste Type: SEE PAGE 7
Volume: 142,000 lbs/YR
Hazardous Constituents (attach separate sheet):

Regulatory Status: UNREGULATED

B. Unit Description: THE USED OIL DRUM PAD IS A CONTAINER STORAGE AREA WHERE OIL STORED IN DOT APPROVED DRUMS ARE ACCUMULATED UNTIL SHIPPED OFF SITE FOR DISPOSAL.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE USED OIL DRUM PAD IS INDICATED AS NUMBER 14 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: DETERMINE IF THERE IS ANY VISUAL EVIDENCE OF RELEASE FROM THIS UNIT.

3. xiv. A. WASTE TYPE: LUBRICATING, CUTTING AND HEAT TRANSFER OILS

3. Specific Unit Information (prepare one for each unit):

XV.A. Unit Type: KAPTON WASTE DRUM PAD
Regulatory Status: UNREGULATED
Age: 24 YEARS
Capacity: 60' x 30'
Period of Operation: 1963 - PRESENT
Waste Type: SEE PAGE 7
Volume: 257,000 lbs / yr
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE KAPTON WASTE DRUM PAD IS A CONTAINER STORAGE AREA WHERE WASTE IS STORED IN DOT APPROVED DRUMS ON A CONCRETE SLAB UNTIL SHIPPED OFF SITE FOR DISPOSAL

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE KAPTON WASTE DRUM PAD IS INDICATED AS NUMBER 15 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: DETERMINE IF THERE ARE ANY VISUAL EVIDENCE OF RELEASES FROM THIS UNIT.

3. xv. A. WASTE TYPE : KAPTON GEL FILM,
POLYMER IN DIMETHYLACETAMIDE
B - PICOLINE ACETIC ACID

3. Specific Unit Information (prepare one for each unit):

TRIETHYLENE GLYCOL

XVI.A. Unit Type: SLUDGE TANK Regulatory Status: UNREGULATED
Age: 22 YEARS
Capacity: 4000 GALLONS
Period of Operation: 1965 - PRESENT
Waste Type: DIRT, POLYESTER POLYMER
Volume: 28,000 lbs / YEAR
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE TRIETHYLENE GLYCOL SLUDGE TANK IS A WASTE SETTLING AND STORAGE TANK USED FOR SETTLING DIRT, POLYMER ETC. FROM TRIETHYLENE GLYCOL.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE TRIETHYLENE GLYCOL SLUDGE TANK IS INDICATED AS NUMBER 16 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

xvii A. Unit Type: CATTLE BARN ASBESTOS Regulatory Status: UNREGULATED
Age: 12 YEARS
Capacity: 20' X 50'
Period of Operation: 1975 - PRESENT
Waste Type: ASBESTOS
Volume: 250 yd³/YEAR
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE CATTLE BARN ASBESTOS UNIT IS A STAGING AREA FOR DOUBLE POLY BAGS OF ASBESTOS PRIOR TO DISPOSAL

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE CATTLE BARN ASBESTOS UNIT IS INDICATED AS NUMBER 17 ON THE SWMU MAP WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: TO DETERMINE IF THERE IS ANY VISUAL EVIDENCE OF RELEASES FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XVIII A. Unit Type: TRASH CONTAINERS AND COMPACTORS Regulatory Status: UNREGULATED
Age: 33 YEARS
Capacity: SEE PAGE 7
Period of Operation: 1954 - PRESENT
Waste Type: SANITARY TRASH
Volume: 12 MM lb/YEAR
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE TRASH CONTAINERS AND COMPACTORS ARE LOCATED THROUGHOUT THE SITE. THE UNITS ARE EMPTIED DAILY AND THE TRASH TAKEN TO A SANITARY LANDFILL

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THESE UNITS ARE FOUND AT VARIOUS LOCATIONS THROUGHOUT THE FACILITY.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNNECESSARY. THERE IS NO SUSPICION OF RELEASE FROM THESE UNITS.

3. xviii. A. CAPACITY : 22 - 3 OR 4 YARD
6 - 25 YARD
9 - 40 YARD
COMPACTORS : 8

3. Specific Unit Information (prepare one for each unit):

XIXA. Unit Type: FARM FEED PIT
Regulatory Status: UNREGULATED
Age: 33 YEARS
Capacity: 100' X 200'
Period of Operation: 1954 - PRESENT
Waste Type: POLYESTER MONOMER
Volume: 250 YDS³/YEAR
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE FARM FEED PIT IS A STORAGE PAD FOR POLYESTER MONOMER PRIOR TO LANDFILLING.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE FARM FEED PIT IS INDICATED AS NUMBER 18 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: BASED ON AVAILABLE INFORMATION A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME.

3. Specific Unit Information (prepare one for each unit):

XX.A. Unit Type: DRY SUMP
Regulatory Status: UNREGULATED
Age: 31 YEARS
Capacity: 2' ~~X~~ x 2'
Period of Operation: 1956 - 1978
Waste Type: SEE PAGE 7
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE DRY SUMP WAS USED FOR THE DISPOSAL OF WASHING OF TRANSFER LINES. THIS UNIT IS NO LONGER IN SERVICE.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE DRY SUMP IS INDICATED AS NUMBER 19 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: TALK TO FACILITY EMPLOYEES TO DETERMINE IF RELEASES FROM THIS

3.xx.A. WASTE TYPE: VINYLIDENE CHLORIDE
METHYL ACRYLATE
ACRYLONITRILE

HAZARDOUS CONSTITUENTS:

3. Specific Unit Information (prepare one for each unit):

XxI A. Unit Type: SHALLOW BURNING PIT Regulatory Status: UNREGULATED
Age: 22 YEARS
Capacity: 35' x 18' x 3' DEEP
Period of Operation: 1965 - 1972
Waste Type: KAPTON PROCESS WASTE
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE SHALLOW BURNING PIT WAS USED FOR ON SITE DISPOSAL OF KAPTON WASTE MATERIAL BY OPEN BURNING. THIS UNIT IS NO LONGER IN SERVICE AND IS COVERED WITH DIRT.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE SHALLOW BURNING PIT IS INDICATED AS NUMBER 20 ON THE SWMU MAP, WHICH IS ENCLOSED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: NONE

3. Specific Unit Information (prepare one for each unit):

XXIIA. Unit Type: CHEMICAL WASTE BURNING PIT Regulatory Status: UNREGULATED
Age: 21 YEARS
Capacity: 12' x 12'
Period of Operation: 1966 - 1971
Waste Type: LABORATORY CHEMICALS
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE CHEMICAL WASTE BURNING PIT WAS USED FOR ON SITE DISPOSAL OF LABORATORY CHEMICALS BY OPEN BURNING. THIS UNIT HAS SINCE BEEN COVERED WITH DIRT.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: SOIL BORING SAMPLES AND MONITORING WELLS SHOULD BE INSTALLED AND GROUNDWATER SAMPLES COLLECTED TO DETERMINE IF A RELEASE FROM THESE UNITS HAS OCCURRED.

D. Environmental Setting: THE CHEMICAL WASTE BURNING PIT IS INDICATED AS NUMBER 21 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: DETERMINE IF THERE ARE ANY VISUAL SIGNS OF RELEASE FROM THIS UNIT.

DETERMINE BY TALKING WITH EMPLOYEES, OR THROUGH A RECORDS SEARCH, THE SPECIFIC LABORATORY CHEMICALS WHICH WERE DISPOSED OF IN THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XXIVA. Unit Type: SLUDGE DRYING BEDS Regulatory Status: UNREGULATED
Age: 33 YEARS
Capacity: 30' x 60'
Period of Operation: 1954-1970
Waste Type: WASTE WATER SLUDGE
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE SLUDGE DRYING BEDS WERE USED IN THE PAST FOR DRYING WASTEWATER SLUDGE.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE SLUDGE DRYING BEDS ARE INDICATED AS NUMBER 23 ON THE SUMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS NOT NECESSARY AT THIS TIME.

3. Specific Unit Information (prepare one for each unit):

XXIIIA. Unit Type: RCRA SATELLITE ACCUMULATION AREA
Age: 7 YEARS
Capacity: 6' x 6'
Period of Operation: 1980 - PRESENT
Waste Type: LABORATORY CHEMICALS
Volume: 400 POUNDS (MAXIMUM)
Regulatory Status: REGULATED AS A RCRA SATELLITE ACCUMULATION AREA
Hazardous Constituents (attach separate sheet): D001, D002, D003, F003, F002, U080

B. Unit Description: THE RCRA SATELLITE ACCUMULATION AREA IS A WASTE COLLECTION STORAGE AREA WHERE LABORATORY CHEMICALS ARE TEMPORARILY STORED.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE RCRA SATELLITE ACCUMULATION AREA IS INDICATED AS NUMBER 22 ON THE SWMU MAP WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNWARRANTED AT THIS TIME. THIS UNIT WAS REVIEWED DURING THE MOST RECENT RCRA INSPECTION.

3. Specific Unit Information (prepare one for each unit):

XXV.A. Unit Type: FUEL OIL PIT
Regulatory Status: UNREGULATED
Age: 33 YEARS
Capacity: 5000 GALLONS
Period of Operation: 1954 - PRESENT
Waste Type: #2 FUEL OIL, WATER
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE FUEL OIL PIT IS A BELOW GROUND TANK USED TO COLLECT OIL SPILLED DURING LOADING OPERATIONS.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE FUEL OIL PIT IS INDICATED BY NUMBER 24 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION OF THIS UNIT IS NOT NECESSARY BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XXVI.A. Unit Type: ADDITIVE 19 LIMESTONE PIT Regulatory Status: UNREGULATED
Age: 8 YEARS
Capacity: 10' X 15'
Period of Operation: 1979 - PRESENT
Waste Type: SILICON TETRACHLORIDE
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

B. Unit Description: THE ADDITIVE 19 LIMESTONE PIT IS A CONCRETE LIMESTONE COLLECTION SUMP USED AS SPILL PROTECTION FOR SILICON TETRACHLORIDE.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE ADDITIVE 19 LIMESTONE PIT IS INDICATED AS NUMBER 25 ON THE SLUMU MAP, WHICH IS ATTACHED

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNNECESSARY AT THIS TIME BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

WEST ADDITIVE 19

XXVII A. Unit Type: LIMESTONE PIT
Age: 3 YEARS
Capacity: 5' X 15'
Period of Operation: 1985 - PRESENT
Waste Type: SILICON TETRACHLORIDE
Volume: UNKNOWN
Hazardous Constituents (attach separate sheet):

Regulatory Status: UNREGULATED

B. Unit Description: THE WEST ADDITIVE 19 LIMESTONE PIT IS A CONCRETE LIMESTONE COLLECTION SUMP USED FOR SPILL PROTECTION FOR SILICON TETRACHLORIDE.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): NONE

Additional Information Needed: NONE

D. Environmental Setting: THE WEST ADDITIVE LIMESTONE PIT IS INDICATED BY NUMBER 26 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: NONE

Additional Information Needed: NONE

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION IS UNNECESSARY AT THIS TIME BECAUSE THERE IS NO SUSPICION OF RELEASE FROM THIS UNIT.

3. Specific Unit Information (prepare one for each unit):

XXVIII.A. Unit Type: BIO-PONDS (2) (SURFACE IMPOUNDMENTS)
Age: 17 YEARS
Capacity: 3.5 ACRES ; 9.2 MM GAL.
Period of Operation: 1970- PRESENT
Waste Type: SEE PAGE 7
Volume: 4 MM GPD

Regulatory Status: NPDES PERMIT, OHIO EPA RCRA SURFACE IMPOUNDMENTS BECAUSE THE FACILITY PUMPED VINYLIDENE CHLORIDE CONTAMINATED GROUNDWATER INTO THIS UNIT.

Hazardous Constituents (attach separate sheet): SEE PAGE 7

B. Unit Description: THE BIO-PONDS (SURFACE IMPOUNDMENTS) ARE USED TO ACCOMPLISH FURTHER BIODEGRADATION OF PLANT WASTES PRIOR TO THE EFFLUENT REACHING THE SCIOTO. THESE UNITS HAVE A HYPALON LINER AND RECEIVE PROCESS, STORM AND SANITARY WASTEWATER. UNDER NORMAL CONDITIONS, THESE UNITS RECEIVE WASTEWATER IN THE SOUTH LAGOON. THE NORTH LAGOON IS USED FOR SPILL OR EMERGENCY EVENTS. STORM WATER CAN ALSO BE DIVERTED TO THE NORTH LAGOON. THREE 25 Hp. FLOATING AERATORS ARE LOCATED IN THE SOUTH LAGOON; ONE IS LOCATED IN THE NORTH LAGOON. FLOW CAN BE MEASURED OUT OF EACH LAGOON BY A PARSHALL FLUME. STORM WATER IS THEN COMBINED WITH TREATED PROCESS WASTEWATER AND IS DISCHARGED.

SINCE 1981, THE FACILITY HAS USED THIS UNIT FOR THE TREATMENT AND STORAGE FOR HAZARDOUS WASTE WITHOUT THE REQUIRED HAZARDOUS WASTE PERMIT. IN THE FALL OF 1985, A THIRD UNIT WAS PLACED IN SERVICE TO TREAT AND STORE SLUDGE REMOVED FROM ONE OF THE TWO BIO-PONDS (SURFACE IMPOUNDMENTS) THIS UNIT HAS BEEN LISTED AS UNIT NUMBER SIX.

Additional Information Needed: NONE

C. Monitoring Description (groundwater, surface water, etc.): COMPLIANCE SAMPLING INSPECTION ON JULY 27-28, 1982 CONDUCTED BY THE COMPLIANCE TRACKING UNIT, WATER QUALITY BRANCH.

Additional Information Needed: NONE, SEE 5.E.

D. Environmental Setting: THE BIO-PONDS (SURFACE IMPOUNDMENTS) ARE INDICATED AS 27 ON THE SWMU MAP, WHICH IS ATTACHED.

Additional Information Needed: NONE

E. Evidence of Suspected Past or Current Releases: U.S. EPA COMPLIANCE SAMPLING REPORT INDICATED THE PRESENCE OF 22 MICRO GRAMS PER LITER AND 86 MICROGRAMS PER LITER OF 1,1- DICHLOROETHYLENE AT SAMPLE LOCATION 001. RESULTS ALSO INDICATE 1.4 AND 4.2 MICRO GRAMS PER LITER TRICHLOROMETHANE ; 0.6 MICROGRAMS PER LITER DIBROMOCHLOROMETHANE AND 0.9 MICROGRAMS PER LITER TRIBROMOMETHANE. A COPY OF THE SAMPLING REPORT IS INCLUDED.

Additional Information Needed: REQUIRED GROUNDWATER MONITORI FOR RCRA SURFACE IMPOUNDMENTS. THE FACILITY WILL BE SUBMITTING A PETITION TO DELIST THE WASTE AS REQUIRED BY THE FINDINGS AND ORDERS RECENTLY SIGNED. A COPY IS ATTACHED TO UNIT NO. 6.

4. Visual Site Inspection (VSI)

A. Specific Objectives: A VISUAL SITE INSPECTION WAS MADE OF THESE UNITS DURING THE MOST RECENT RCRA INSPECTION.

Appendix H

KAPTON® INCINERATOR AREA SOIL AND GROUNDWATER STUDY

KAPTON® INCINERATOR AREA

SOIL AND GROUNDWATER STUDY

DU PONT CIRCLEVILLE PLANT
CIRCLEVILLE, OHIO

Presented to

OHIO ENVIRONMENTAL PROTECTION AGENCY
CENTRAL DISTRICT OFFICE

February 8, 1991

AGENDA

• INTRODUCTION	J. F. Riley
• SOIL SAMPLING PLAN	C. Trmal
• MONITORING WELL INSTALLATION	C. Trmal
• DATA ANALYSIS/RISK ASSESSMENT	T. S. Bingman
• PATH FORWARD	J. F. Riley

INTRODUCTION

- PRODUCT
- PROCESS
- WASTE
- INCINERATOR
- EXPANSION

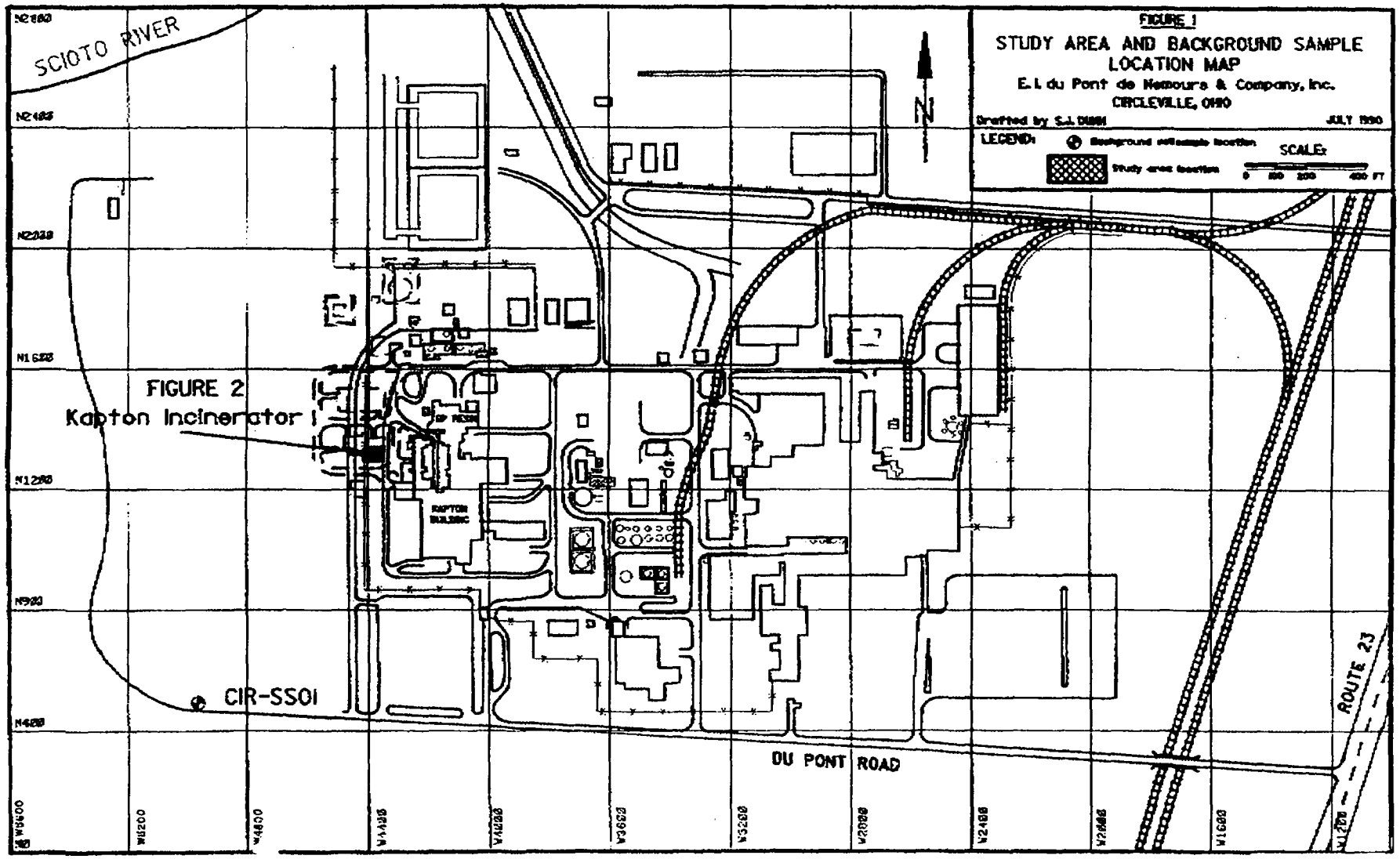
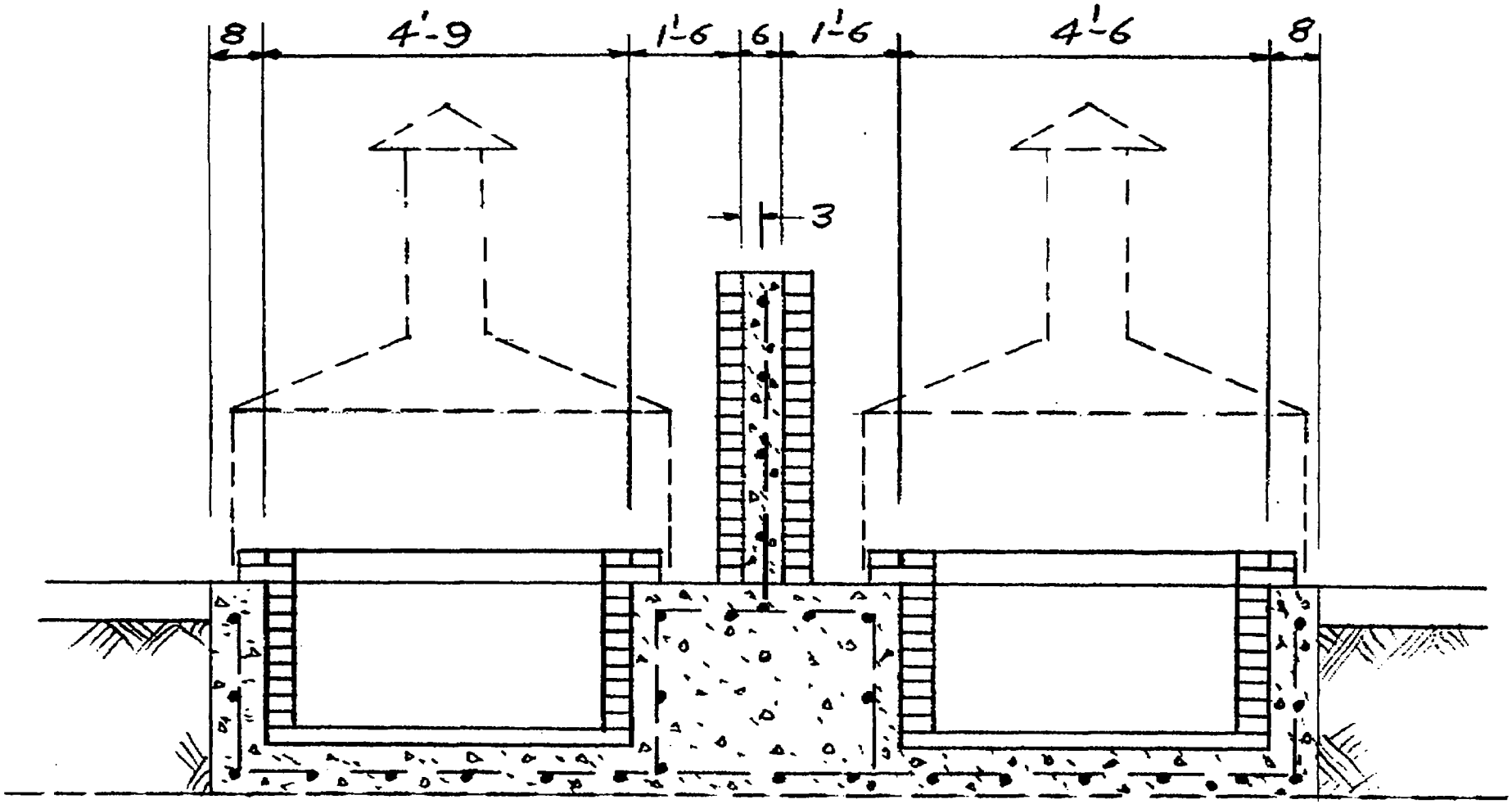


FIGURE 1
STUDY AREA AND BACKGROUND SAMPLE LOCATION MAP
E.I. du Pont de Nemours & Company, Inc.
CIRCLEVILLE, OHIO
JULY 1990
LEGEND:
SCALE:
0 100 200 400 FT
N
SCIOTO RIVER
FIGURE 2
Kapton Incinerator
CIR-SS01
DU PONT ROAD
ROUTE 23
N2800
N2400
N2000
N1600
N1200
N900
N400
W8600
W8200
W4800
W4400
W4000
W3600
W3200
W2800
W2400
W2000
W1600
W1200



KAPTON INCINERATOR

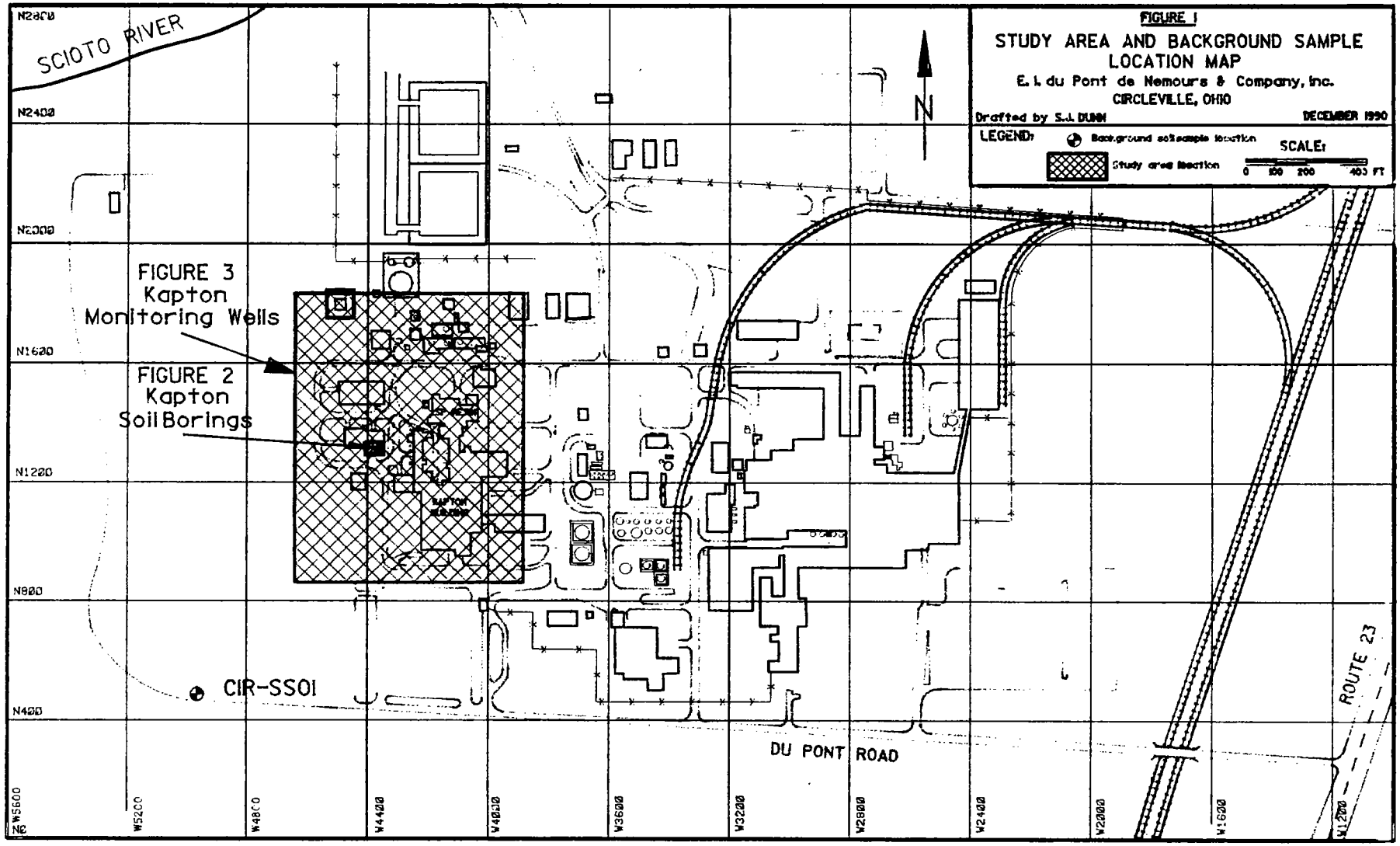


FIGURE 1
STUDY AREA AND BACKGROUND SAMPLE LOCATION MAP
E. I. du Pont de Nemours & Company, Inc.
CIRCLEVILLE, OHIO
Drafted by S.J. DUNN
DECEMBER 1990
LEGEND:
Background soil sample location
Study area location
SCALE:
0 100 200 400 FT
N
SCIOTO RIVER
FIGURE 3
Kapton
Monitoring Wells
FIGURE 2
Kapton
Soil Borings
CIR-SS01
DU PONT ROAD
ROUTE 23
N2800
N2400
N2000
N1600
N1200
N800
N400
N0
W5500
W5200
W4800
W4400
W4000
W3600
W3200
W2800
W2400
W2000
W1600
W1200

FIGURE 2

SOIL BORING LOCATION MAP

KAPTON INCINERATOR, PHASE III

Circleville, Ohio

Drafted by S.J. DUNN

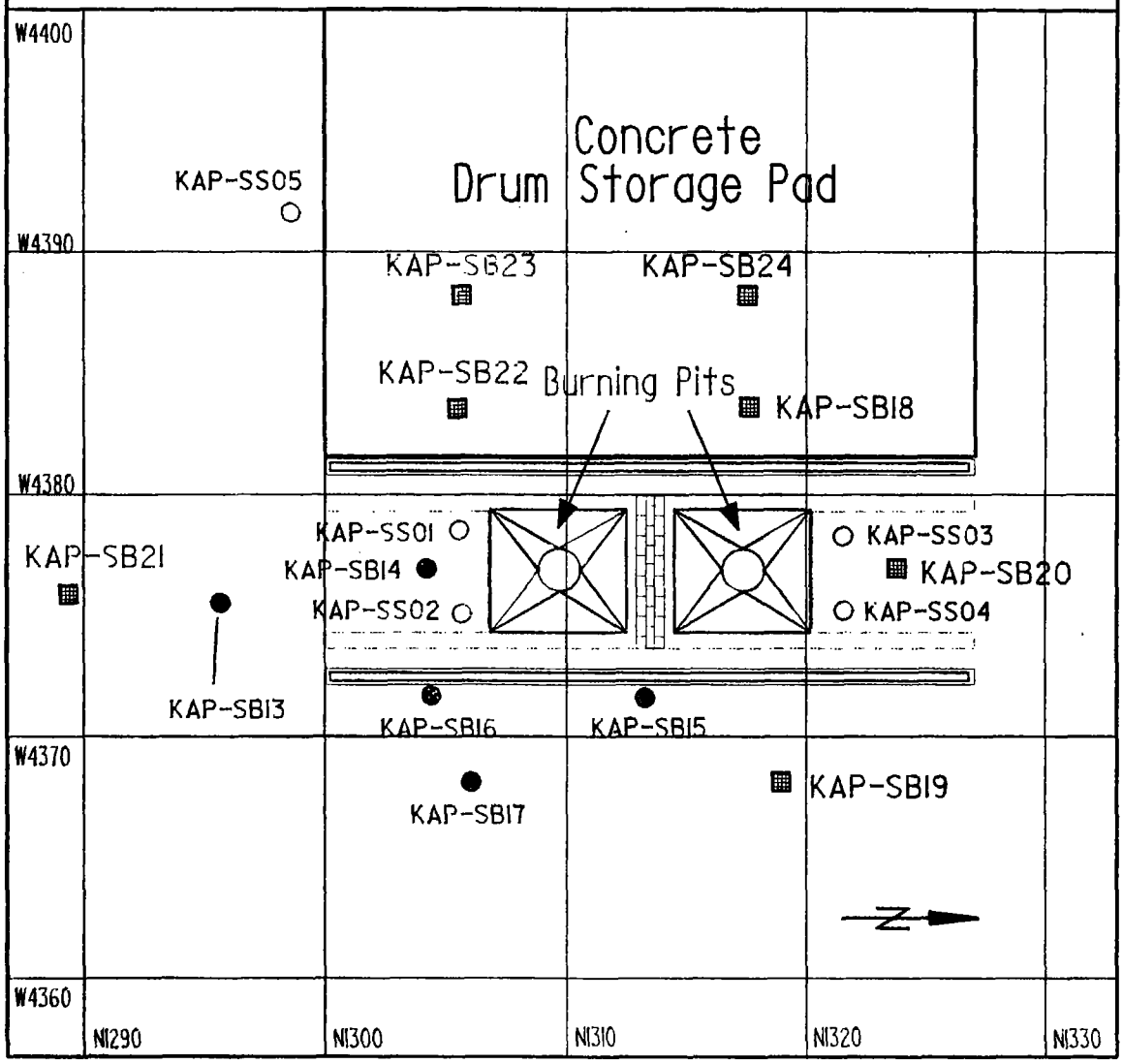
December, 1990

LEGEND:

- ▦ Approximate Soil Boring Location, Phase III
- ● Approximate Soil Boring Location, Phase II
- ○ Approximate Soil Boring Location, Phase I

SCALE:

0 5 10 FT



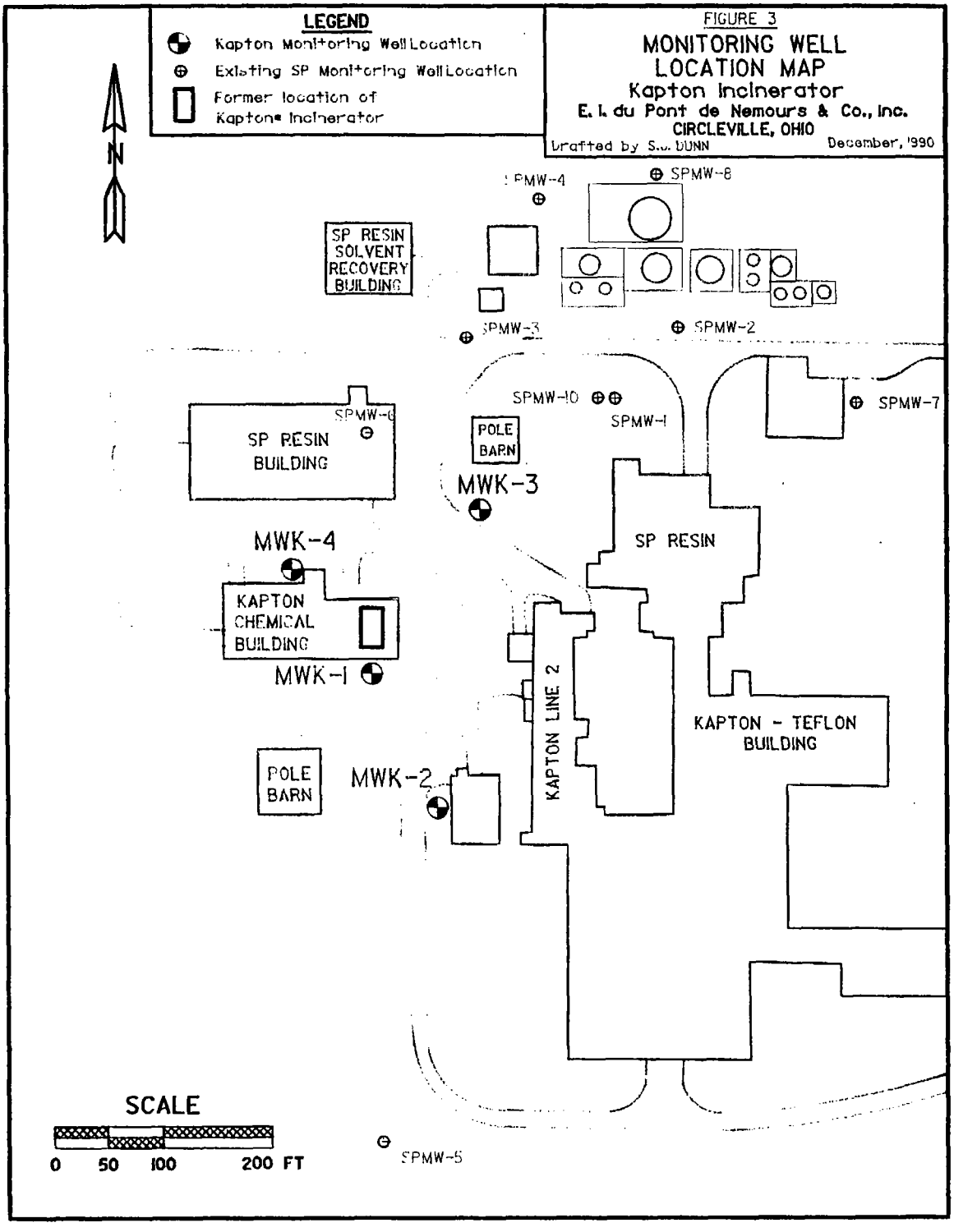

LEGEND
Kapton Monitoring Well Location
Existing SP Monitoring Well Location
Former location of Kapton Incinerator
FIGURE 3
MONITORING WELL LOCATION MAP
Kapton Incinerator
E. I. du Pont de Nemours & Co., Inc.
CIRCLEVILLE, OHIO
Drafted by S.J. DUNN
December, 1990
N
SPMW-4
SPMW-8
SP RESIN SOLVENT RECOVERY BUILDING
SPMW-3
SPMW-2
SPMW-10
SPMW-1
SPMW-7
SPMW-6
SP RESIN BUILDING
POLE BARN
MWK-3
MWK-4
SP RESIN
KAPTON CHEMICAL BUILDING
MWK-1
KAPTON LINE 2
KAPTON - TEFLON BUILDING
POLE BARN
MWK-2
SCALE
0 50 100 200 FT
SPMW-5

FIGURE 4

MWK-1 WELL CONSTRUCTION DIAGRAM

Kapton® Incinerator Monitoring Wells

E. I. du Pont de Nemours & Company, Inc.

CIRCLEVILLE, OHIO

Drafted by S.J. DUNN

December 1990

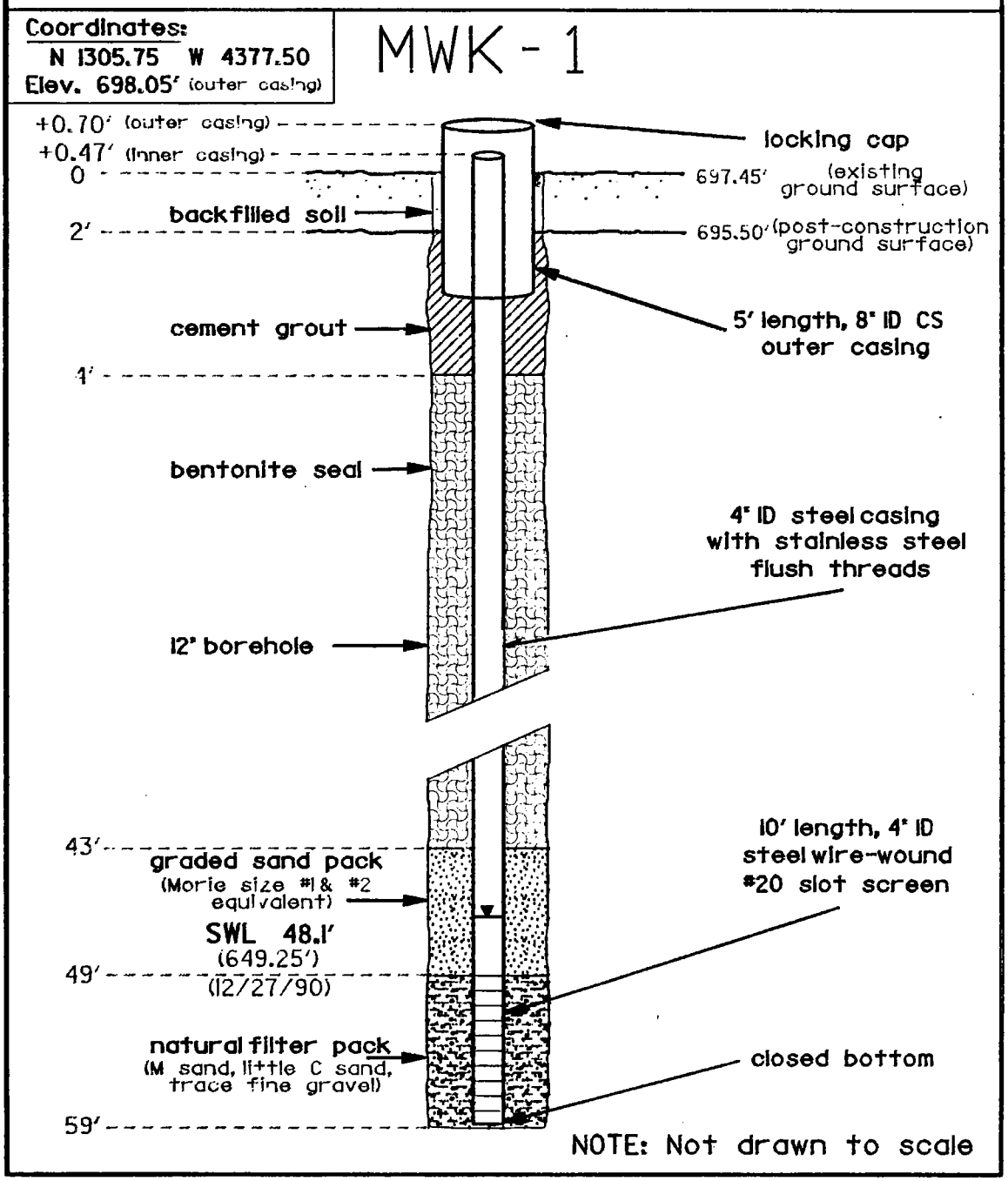


FIGURE 5

MWK-2 WELL CONSTRUCTION DIAGRAM

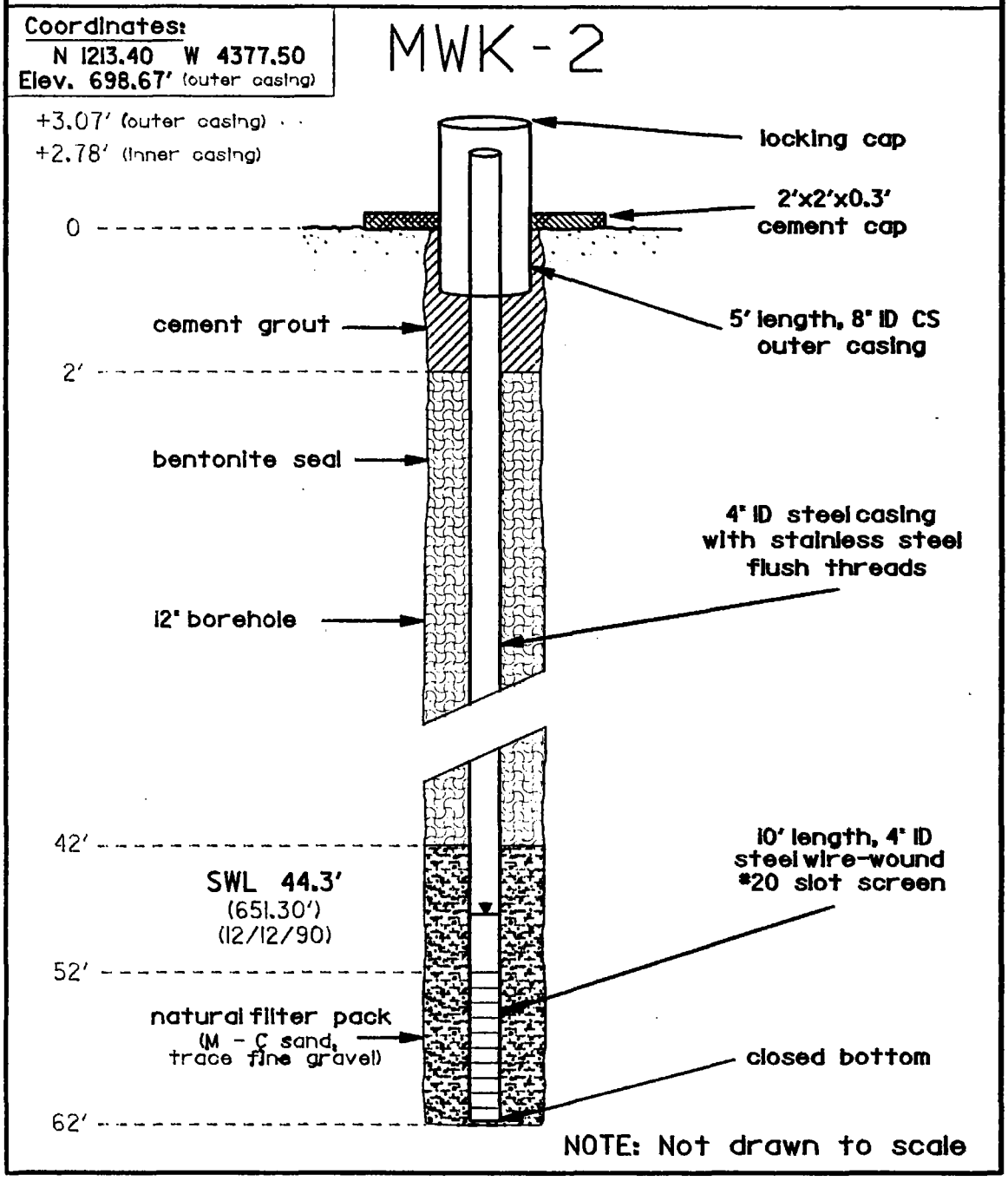
Kapton® Incinerator Monitoring Wells

E. I. du Pont de Nemours & Company, Inc.

CIRCLEVILLE, OHIO

Drafted by S.J. DUNN

December 1990



NOTE: Not drawn to scale

FIGURE 6

MWK-3 WELL CONSTRUCTION DIAGRAM

Kapton® Incinerator Monitoring Wells

E. I. du Pont de Nemours & Company, Inc.

CIRCLEVILLE, OHIO

Drafted by S.J. DUNN

December 1990

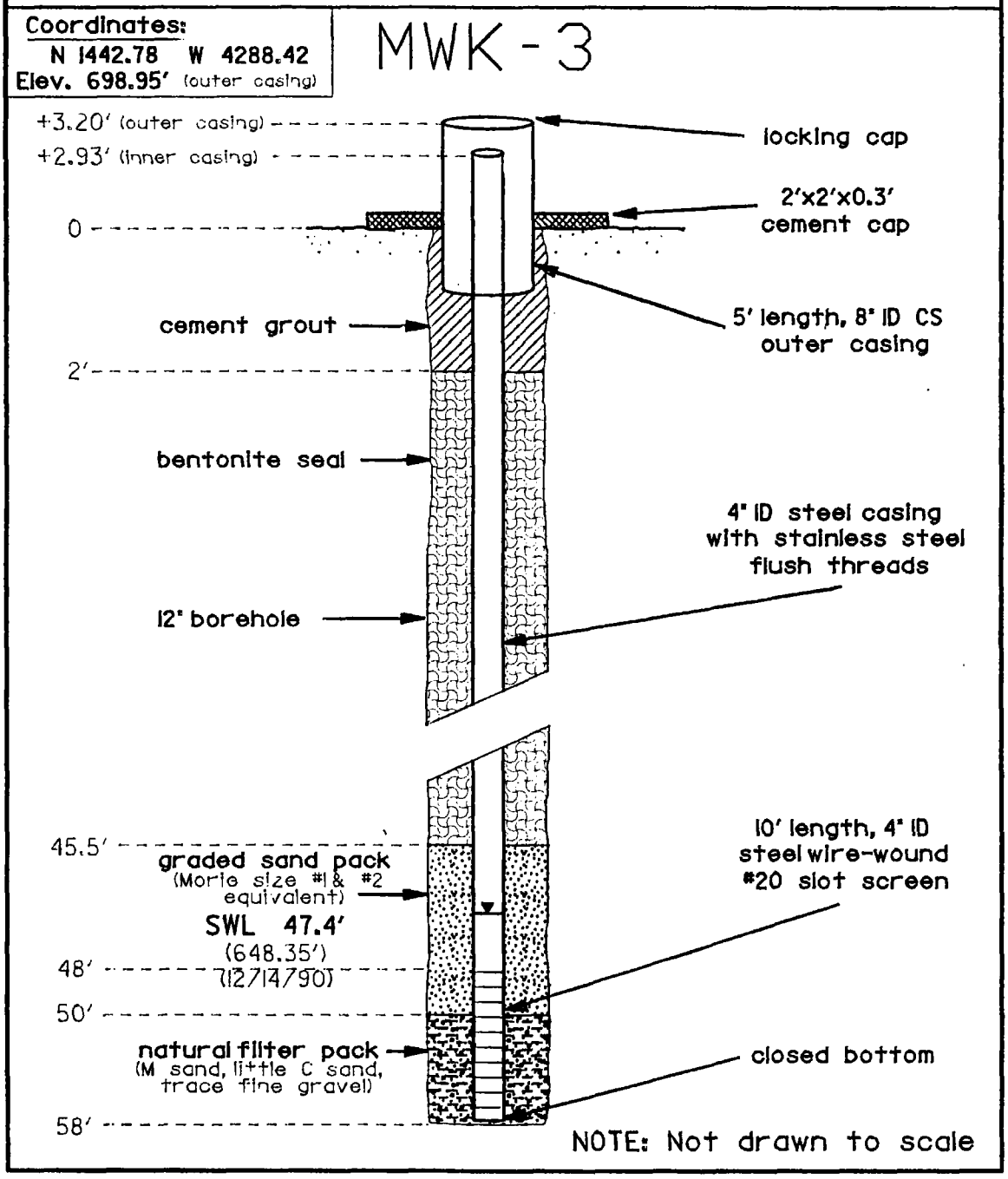


FIGURE 7

MWK-4 WELL CONSTRUCTION DIAGRAM

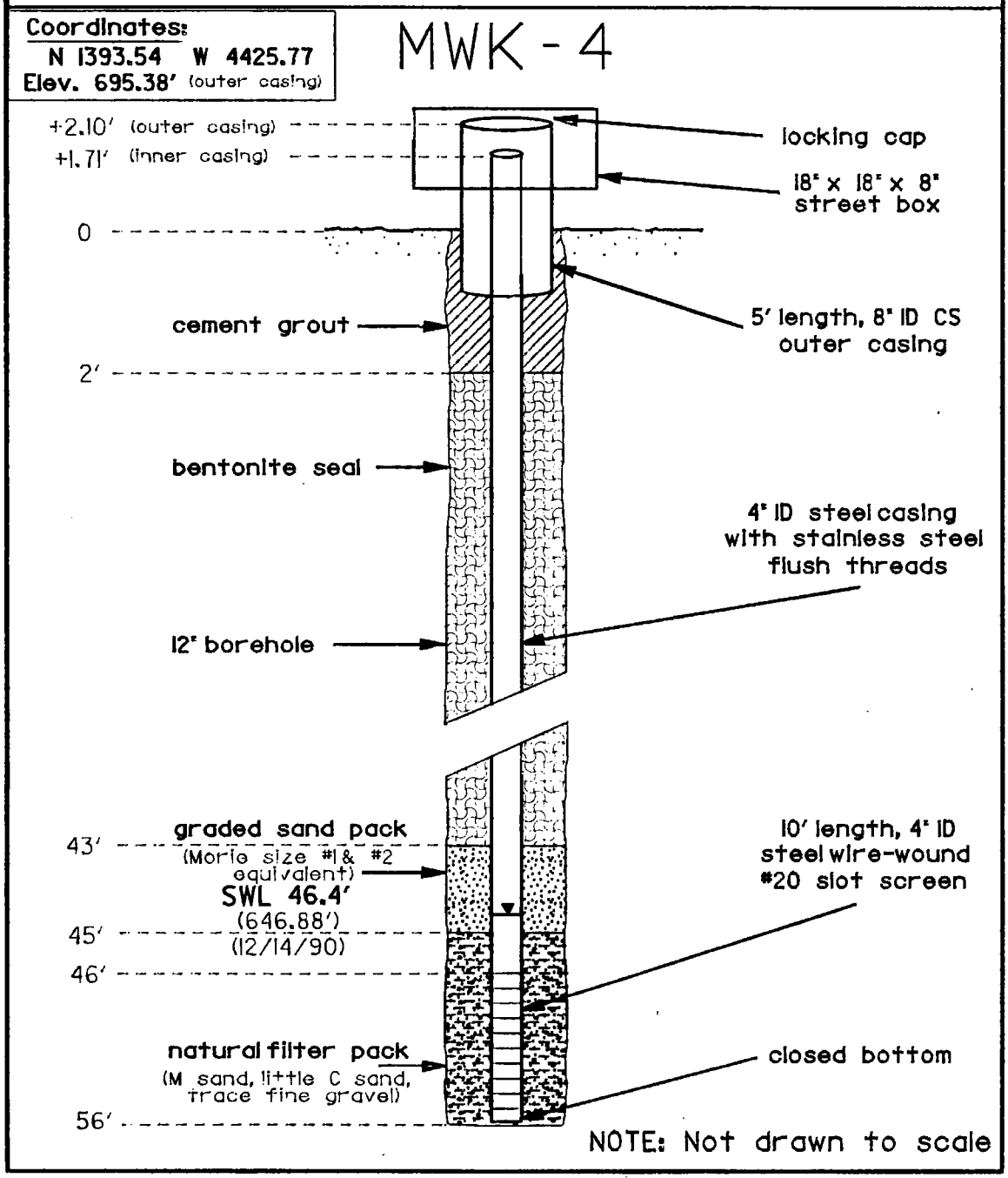
Kapton® Incinerator Monitoring Wells

E. I. du Pont de Nemours & Company, Inc.

CIRCLEVILLE, OHIO

Drafted by S.J. DUNN

December 1990



DU PONT KAPTON INCINERATOR RISK ASSESSMENT

"TWO-PRONGED" APPROACH:

1. EVALUATE LEVELS IN TERMS OF PROPOSED SUBPARTS REQUIREMENTS

2. EVALUATE LEVELS USING CERCLA RISK ASSESSMENT METHODS

CRITERIA FOR SELECTING CONSTITUENTS OF INTEREST

- FREQUENCY OF DETECTION
- CONCENTRATION
- PRESENCE IN BACKGROUND
- LOCATION RELATIVE TO EXCAVATION
- TYPICAL CONCENTRATIONS OF METALS
- LABORATORY CONTAMINANTS

CONSTITUENTS OF INTEREST

- ACETONE
- ACETIC ACID
- DIMETHYLACETAMIDE (DMAC)
- 3-PICOLINE

3-PICOLINE:

- SUBCHRONIC STUDY
- IN RATS
- LOAEL = 500 MG/KG/DAY

$$RfD = \frac{500 \text{ MG/KG/DAY}}{10 \times 10 \times 10 \times 10}$$

RfD = 0.05 MG/KG/DAY

DU PONT PROTOCOL:

- BEGIN WITH NOAEL (IN PPM) FROM SUBCHRONIC INHALATION STUDIES
- APPLY 10X INTERSPECIES UNCERTAINTY FACTOR
- APPLY 25X UNCERTAINTY FACTOR FOR SENSITIVE SUBGROUPS AND 24-HOUR VS. 8-HOUR EXPOSURES
- CONVERT ALLOWABLE CONCENTRATION FROM PPM TO MG/M^3
- CALCULATE CORRESPONDING BODY BURDEN
- EXPRESS IN TERMS OF MG/KG/DAY

DEVELOPMENT OF RfDs

<u>EPA PROTOCOL</u>:

BEGIN WITH "NOAEL" OR "LOAEL"

APPLY UNCERTAINTY FACTORS

- 10X FOR ANIMALS TO HUMANS
- 10X FOR SENSITIVE SUBPOPULATIONS
- 10X FOR SUBCHRONIC VS. CHRONIC
- 10X FOR LOAEL VS. NOAEL

$$\text{RfD} = \frac{\text{NOAEL OR LOAEL}}{\text{UNCERTAINTY FACTORS}}$$

DMAC:

- CHRONIC (2-YEAR) STUDY
- IN RATS
- NOAEL = 300 MG/KG/DAY

$$RfD = \frac{300\ MG/KG/DAY}{10 \times 10}$$

$$RfD = 3.0\ MG/KG/DAY$$

DMAC:

- 100 PPM NOAEL
- SUBCHRONIC STUDY
- IN RATS

$$\text{APPLY 10X UNCERTAINTY FACTOR} = \frac{100\ \text{PPM}}{10} = 10\ \text{PPM}$$

$$\text{APPLY 25 UNCERTAINTY FACTOR} = \frac{10\ \text{PPM}}{25} = 0.4\ \text{PPM}$$

$$\text{CONVERT TO MG/M}^3 = 0.4\ \text{PPM} \times 3.56\ \text{MG/M}^3\text{/PPM} = 1.42\ \text{MG/M}^3$$

$$\text{CONVERT TO BODY BURDEN} = 1.42\ \text{MG/M}^3 \times 20\ \text{M}^3\text{/DAY} = 28\ \text{MG/DAY}$$

$$\text{EXPRESS AS RfD} = 28\ \text{MG/DAY} \div 70\ \text{KG} = 0.4\ \text{MG/KG/DAY}$$

RfD SUMMARY*

Constituent	EPA Method	Du Pont Method
DMAC	3.0	[redacted]
3-Picoline	[redacted]	0.09

*All values are in mg/kg/day.

SUBPART S APPROACH

- SET ACTION LEVELS BASED ON RfDs

<u>SOIL</u>:

$$C_S = (RfD \times BW) / (IR \times A \times CF)$$

EXAMPLE: 3-PICOLINE

$$C_S = \frac{0.05\ MG/KG/DAY \times 16\ KG}{0.2\ G/DAY \times 1.0 \times 0.001\ KG/G}$$

$$C_S = 4{,}000\ MG/KG$$

GROUNDWATER:

$$C_W = (RfD \times BW) / (IR \times A)$$

EXAMPLE: DMAC

$$C_W = \frac{0.4\ MG/KG/DAY \times 70\ KG}{2\ LIT/DAY \times 1.0}$$

$$C_W = 14.0\ MG/L$$

SUMMARY OF ACTION LEVELS BASED ON SUBPART S METHODS

Constituent	Groundwater Concentration (mg/l)	Soil Concentration (mg/kg)
3-Picoline	1.75	4,000
DMAC	14.0	32,000

CERCLA RISK ASSESSMENT APPROACH

- CONSIDERS MULTIPLE PATHWAY EXPOSURE (SOIL AND GROUNDWATER INGESTION)
- CONSIDERS MULTIPLE CONSTITUENT EXPOSURE
- USES HAZARD INDEX APPROACH

$$HI = \sum \frac{CDI_1}{RfD_1} + \frac{CDI_2}{RfD_2} + \ldots + \frac{CDI_n}{RfD_n}$$

- CONSIDERS AVERAGE AND WORST CASE EXPOSURE SCENARIOS

DEVELOP CHRONIC DAILY INTAKES

SOIL INGESTION:

$$CDI = \frac{CS \times IR \times CF \times FI \times EF \times ED}{BW \times AT}$$

GROUNDWATER INGESTION:

$$CDI = \frac{CW \times IR \times EF \times ED}{BW \times AT}$$

SUMMARY OF CHRONIC DAILY INTAKES

SOIL INGESTION:

Constituent	CHRONIC DAILY INTAKES (mg/kg/day)			
	Adult		Child	
	Average	Worst	Average	Worst
3-Picoline	5.2×10^{-5}	1.4×10^{-3}	1.8×10^{-3}	1.2×10^{-2}
DMAC	8.2×10^{-4}	2.1×10^{-2}	2.8×10^{-2}	1.9×10^{-1}
Acetone	2.1×10^{-8}	5.6×10^{-7}	7.2×10^{-7}	4.9×10^{-6}
Acetic Acid	2.5×10^{-3}	6.5×10^{-2}	8.5×10^{-2}	5.7×10^{-1}

GROUNDWATER INGESTION:

Constituent	CHRONIC DAILY INTAKES			
	Adult		Child	
	Average	Worst	Average	Worst
3-Picoline	*	*	*	*
DMAC	4.80×10^{-2}	6.86×10^{-2}	1.50×10^{-1}	1.50×10^{-1}
Acetone	*	*	*	*
Acetic Acid	*	*	*	*

* Daily intakes were not calculated for these constituents, since they were not detected in groundwater.

SUMMARY OF HAZARD INDICIES

Media/Exposure Route	CHRONIC HAZARD INDEX			
	Adult		Child	
	Average	Worst	Average	Worst
Soil - Ingestion	3.1×10^{-3}	8.0×10^{-2}	1.0×10^{-1}	7.0×10^{-1}
Groundwater - Ingestion	1.2×10^{-1}	1.7×10^{-1}	3.7×10^{-1}	3.7×10^{-1}
TOTAL	1.2×10^{-1}	2.5×10^{-1}	4.8×10^{-1}	1.1

IMPLICATIONS/SUMMARY

- EXISTING LEVELS ARE FAR BELOW ACTION LEVELS AS CALCULATED USING SUBPARTS METHODS.
- EXISTING LEVELS ONLY MARGINALLY EXCEED THE HAZARD INDEX THRESHOLD USING EXTREMELY CONSERVATIVE EXPOSURE ASSUMPTIONS.

PATH FORWARD

- PROCEED WITH CONSTRUCTION
- MONITOR GROUNDWATER

Appendix I

GROUNDWATER ANALYTICAL RESULTS

ERM-Midwest, inc.

APPENDIX B.1

Groundwater Samples Collected in April 1988

ANALYTICAL REPORT

Findlay Laboratory, A Division of
Environmental Testing and Certification Corp.
16406 U.S. Route 224 East
P.O. Box 1404
Findlay, Ohio 45839-1404

ETC - FINDLAY LABORATORY

REVISED: 5/10/88

CLIENT: E.I. du Pont de Nemours
Circleville, OH

ATTN: J. McGuire

PROJECT NUMBER: 5748

SAMPLE TYPE: Water

ANALYSIS PERFORMED:

Acetone and Pyridine

DATE COMPLETED: 4/25/88

DATE RECEIVED: 4/22/88

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report was prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and Approved by: R. J. Schock, Mgr.-ETC Findlay Laboratory — Date 5/10/88

PROJECT 5748

SUMMARY REPORT OF ANALYTICAL SERVICES

1. INTRODUCTION

Environmental Testing & Certification Corp. (ETC)-Findlay Laboratory received 7 samples from O.H. Materials Corp., Findlay, Ohio. These samples were acquired by their technical personnel and transferred to the laboratory complete with a chain-of-custody record, a copy of which is attached for reference. These samples were analyzed for the following:

Halogenated Volatile Organics - Water

Samples were prepared and analyzed according to USEPA Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 2nd edition, July 1982: Method 8015, Non-Halogenated Volatile Organics.

2. ANALYTICAL RESULTS

The following table details the analytical results for samples #5748-01-W through #5748-07-W.

TABLE 1 - NON-HALOGENATED VOLATILES ORGANICS ANALYSIS

Sample Number	Description	Acetone (mg/L)	Pyridine (mg/L)
5748-01-W	MW-4, East Well, Water	BDL	BDL
5748-02-W	MW-4, East Well, Water - Dup	BDL	BDL
5748-03-W	Equipment Blank, Water	BDL	BDL
5748-04-W	MW-2, West Well, Water	BDL	BDL
5748-05-W	MW-1, North Well, Water	BDL	BDL
5748-06-W	MW-3, South Well, Water	BDL	31.1
5748-07-W	Trip Blank	BDL	BDL
LOD		1.0	1.0

LOD = Limit of Detection
mg/L = ppm (parts-per-million)
BDL = Below Detection Limit

ERM-Midwest, Inc.

APPENDIX B.2

Groundwater Samples Collected in October 1988

ANALYTICAL REPORT

Findlay Laboratory, A Division of
Environmental Testing and Certification Corp.
16406 U.S. Route 224 East
P.O. Box 1404
Findlay, Ohio 45839-1404

ETC - FINDLAY LABORATORY

CLIENT: E. I. du Pont de Nemours
Circleville, OH

ATTN: E. Ossi

PROJECT NUMBER: 5748

SAMPLE TYPE: Water

ANALYSIS PERFORMED:

COD, TDS, Acetone, Pyridine,
and Iron

DATE COMPLETED: 10/30/88

DATE RECEIVED: 10/08/88

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Environmental Testing and Certification Corp. assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

The analyses and data interpretation that form the basis of this report was prepared under the direct supervision and control of the undersigned who is solely responsible for the contents and conclusions therein.

Reviewed and
Approved by: R. J. Schock, Mgr.,-ETC Findlay Laboratory — 10/31/88 Date

PROJECT 5748

SUMMARY REPORT OF ANALYTICAL SERVICES

1. INTRODUCTION

Environmental Testing & Certification Corp. (ETC) Findlay Lab., received 29 samples from O.H. Materials Corp. These samples were acquired by their technical personnel and transferred to the laboratory complete with a chain-of-custody record, a copy of which is attached for reference. These samples were analyzed for the following:

Chemical Oxygen Demand (COD)

Samples were analyzed for COD using the procedures specified in Standard Methods for the Examination of Water and Wastewater, 16th edition, Method 508, p. 532.

Total Dissolved Solids

Samples are analyzed for Total Dissolved Solids (TDS) according to EPA 600/4-79-020 (Revised March 1983); Method 160.1, Residue, Filterable Gravimetric, Dried at 180°C.

Acetone

Samples were extracted with an equal weight of water and analyzed according to SW-846 Method 8015 by direct injection technique.

Pyridine

Samples were prepared and analyzed according to USEPA Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, EPA SW-846, 3nd edition, September 1986; Method 5030, Purge and Trap, and Method 8015, Nonhalogenated Volatile Organics.

Metals

Samples were prepared and analyzed according to USEPA Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods, SW-846, 2nd edition, July 1982. Samples were prepared by Method 3010, 3030, 3050, or 1310 as appropriate for the following metal: iron. Sample analyses for this metal was performed according to Method 6010, Inductively Coupled Plasma Method (SW-846 Proposed Sampling and Analytical Methodologies, 1984).

2. ANALYTICAL RESULTS

The following tables detail the analytical results for the samples received by the laboratory on October 8, 1988.

PROJECT 5748

TABLE 1 - CHEMICAL OXYGEN DEMAND (COD) ANALYSIS

Sample Number	Description	Concentration (mg/L)
83	Water; Prod. #2	BDL
93	Water; MW - 4	BDL
102	Water; MW - 3	BDL
109	Water; MW - 1	BDL
116	Water; MW - 2	BDL

Limit of Detection = 10.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5748

TABLE 2 - TOTAL DISSOLVED SOLIDS (TDS) ANALYSIS

Sample Number	Description	Concentration (mg/L)
85	Water; Prod. #2	802
95	Water; MW - 4	744
104	Water; MW - 3	743
111	Water; MW - 1	483
118	Water; MW - 2	1,390

Limit of Detection = 20.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5748

TABLE 3 - ACETONE ANALYSIS

Sample Number	Description	Concentration (ug/L)
81	Water; Prod. #2	91.2
88	Water; Field Blank at Prod. #2	20.8
91	Water; MW - 4	BDL
97	Water; Field Blank at MW - 4	BDL
100	Water; MW - 3	BDL
107	Water; MW - 1	BDL
114	Water; MW - 2	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5748

TABLE 4 - PYRIDINE ANALYSIS

Sample Number	Description	Concentration (ug/L)
80	Water; Prod. #2	BDL
87	Water; Field Blank at Prod. #2	BDL
90	Water; MW - 4	BDL
96	Water; Field Blank at MW - 4	BDL
99	Water; MW - 3	BDL
106	Water; MW - 1	487
113	Water; MW - 2	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5748

TABLE 5 - IRON ANALYSIS

Sample Number	Description	Concentration (mg/L)
84	Water; Prod. #2	2.94
94	Water; MW - 4	20.0
103	Water; MW - 3	49.4
110	Water; MW - 1	49.6
117	Water; MW - 2	26.2

Limit of Detection = 0.1 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

ERM-Midwest, Inc.

APPENDIX B.3

Groundwater Samples Collected in December 1988

CLIENT: E.I. du Pont de Nemours & Co., Inc.

SAMPLE RECEIVED: 12/08/88

REPORT COMPLETED: 12/29/88

RESULTS IN: mg/L (ppm)

REPORTED BY: Skinner & Sherman

CHECKED BY:

INORGANIC ANALYSIS

- Data Report -

Erco ID	Client ID	Organic Demand, Biological
2024-01	SPMW-1	<100
2024-03	SPMW-3	<100

If customer has any questions regarding analysis, refer to sample in question by its Erco ID#.

CLIENT: E.I. du Pont de Nemours & Co., Inc.

INORGANIC ANALYSIS

SAMPLE RECEIVED: 12/08/88

REPORT COMPLETED: 12/15/88

RESULTS IN: mg/L*

REPORTED BY: [illegible]

CHECKED BY: [illegible]

- Data Report -

Erco ID	Client ID	Iron
2024-01	SPMW-1	1.2
2024-03	SPMW-3	5.2
Erco Blank		ND
Laboratory Control Spike		96%
Laboratory Control Spike Dup.		99%
Reporting Limit:		0.05
Method Used:		200.7

If customer has any questions regarding analysis, refer to sample in question by its Erco ID#.

*Unless otherwise indicated.

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-1
Laboratory ID: 2024-01
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Compound Name	Result	Units	Reporting Limit
Pyridine	120	µg/L	10

Reported by BJ Approved by AB

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-1

Laboratory ID: 2024-01

Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88

Authorized: 12/09/88 Prepared: 12/18/88 Analyzed: 12/18/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by [illegible] Approved by [illegible]

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-1
Laboratory ID: 2024-01
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
2,4-Dinitrophenol	ND	µg/L	50
4-Nitrophenol	ND	µg/L	50
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
4,6-Dinitro-2-methylphenol	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BS Approved by RB

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-1
Laboratory ID: 2024-01
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
Phenol	ND	µg/L	10
bis(2-Chloroethyl)ether	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
Benzyl alcohol	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
2-Methylphenol	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
4-Methylphenol	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Nitrophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
Benzoic acid	ND	µg/L	50
bis(2-Chloroethoxy)methane	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	50
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10

(continued on following page)

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-1D
Laboratory ID: 2024-02
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-1D

Laboratory ID: 2024-02

Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88

Authorized: 12/09/88 Prepared: 12/21/88 Analyzed: 12/21/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-1D
Laboratory ID: 2024-02
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
2,4-Dinitrophenol	ND	µg/L	50
4-Nitrophenol	ND	µg/L	50
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
4,6-Dinitro-2-methylphenol	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-1D
Laboratory ID: 2024-02
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
Phenol	ND	µg/L	10
bis(2-Chloroethyl)ether	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
Benzyl alcohol	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
2-Methylphenol	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
4-Methylphenol	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Nitrophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
Benzoic acid	ND	µg/L	50
bis(2-Chloroethoxy)methane	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	50
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10

(continued on following page)

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-2
Laboratory ID: 2036-01
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by RB

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-2
Laboratory ID: 2036-01
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/19/88 Analyzed: 12/19/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-2

Laboratory ID: 2036-01

Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88

Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
2,4-Dinitrophenol	ND	µg/L	50
4-Nitrophenol	ND	µg/L	50
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
4,6-Dinitro-2-methylphenol	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate ------	30	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by AB

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-2
Laboratory ID: 2036-01
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
Phenol	ND	µg/L	10
bis(2-Chloroethyl)ether	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
Benzyl alcohol	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
2-Methylphenol	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
4-Methylphenol	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Nitrophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
Benzoic acid	ND	µg/L	50
bis(2-Chloroethoxy)methane	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	50
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10

(continued on following page)

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-3
Laboratory ID: 2024-03
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BT Approved by B

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-3

Laboratory ID: 2024-03

Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88

Authorized: 12/09/88 Prepared: 12/21/88 Analyzed: 12/21/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-3
Laboratory ID: 2024-03
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
2,4-Dinitrophenol	ND	µg/L	50
4-Nitrophenol	ND	µg/L	50
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
4,6-Dinitro-2-methylphenol	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by RB

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-3
Laboratory ID: 2024-03
Matrix: Aqueous Sampled: 12/08/88 Received: 12/08/88
Authorized: 12/09/88 Prepared: 12/13/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
Phenol	ND	µg/L	10
bis(2-Chloroethyl)ether	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
Benzyl alcohol	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
2-Methylphenol	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
4-Methylphenol	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Nitrophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
Benzoic acid	ND	µg/L	50
bis(2-Chloroethoxy)methane	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	50
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10

(continued on following page)

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-4
Laboratory ID: 2036-02
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by AB

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-4

Laboratory ID: 2036-02

Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88

Authorized: 12/12/88 Prepared: 12/21/88 Analyzed: 12/21/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-4
Laboratory ID: 2036-03
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
2,4-Dinitrophenol	ND	µg/L	50
4-Nitrophenol	ND	µg/L	50
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
4,6-Dinitro-2-methylphenol	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-4
Laboratory ID: 2036-02
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
Phenol	ND	µg/L	10
bis(2-Chloroethyl)ether	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
Benzyl alcohol	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
2-Methylphenol	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
4-Methylphenol	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Nitrophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
Benzoic acid	ND	µg/L	50
bis(2-Chloroethoxy)methane	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	50
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10

(continued on following page)

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-5
Laboratory ID: 1993-01
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-5

Laboratory ID: 1993-01

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/16/88 Analyzed: 12/16/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by Kit Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-5
Laboratory ID: 1993-01
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
bis(2-Chloroethyl)ether	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
bis(2-Chloroethoxy)methane	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10

(continued on following page)

ND = Not detected.

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-5

Laboratory ID: 1993-01

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	µg/L	10
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by _____ Approved by _____

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-5 Dup
Laboratory ID: 1993-02
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by [illegible]

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-5 Dup.

Laboratory ID: 1993-02

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/16/88 Analyzed: 12/16/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-5 Dup
Laboratory ID: 1993-02
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
bis(2-Chloroethyl)ether	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
bis(2-Chloroethoxy)methane	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10

(continued on following page)

ND = Not detected.

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-5 Dup
Laboratory ID: 1993-02
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	µg/L	10
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by AB

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-6
Laboratory ID: 1993-03
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/30/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-6

Laboratory ID: 1993-03

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/15/88 Analyzed: 12/15/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHe

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-6
Laboratory ID: 1993-03
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
bis(2-Chloroethyl)ether	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
bis(2-Chloroethoxy)methane	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10

(continued on following page)

ND = Not detected.

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-6
Laboratory ID: 1993-03
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	µg/L	10
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by AB

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-7
Laboratory ID: 2036-03
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BS Approved by JB

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-7

Laboratory ID: 2036-03

Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88

Authorized: 12/12/88 Prepared: 12/19/88 Analyzed: 12/19/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KH Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-7
Laboratory ID: 2036-03
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
2,4-Dinitrophenol	ND	µg/L	50
4-Nitrophenol	ND	µg/L	50
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
4,6-Dinitro-2-methylphenol	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10
Hexachlorobenzene	ND	µg/L	10
Pentachlorophenol	ND	µg/L	50
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by JB

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-7
Laboratory ID: 2036-03
Matrix: Aqueous Sampled: 12/09/88 Received: 12/10/88
Authorized: 12/12/88 Prepared: 12/13/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
Phenol	ND	µg/L	10
bis(2-Chloroethyl)ether	ND	µg/L	10
2-Chlorophenol	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
Benzyl alcohol	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
2-Methylphenol	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
4-Methylphenol	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
2-Nitrophenol	ND	µg/L	10
2,4-Dimethylphenol	ND	µg/L	10
Benzoic acid	ND	µg/L	50
bis(2-Chloroethoxy)methane	ND	µg/L	10
2,4-Dichlorophenol	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
4-Chloro-3-methylphenol	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2,4,6-Trichlorophenol	ND	µg/L	10
2,4,5-Trichlorophenol	ND	µg/L	50
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10

(continued on following page)

ND = Not detected.

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-8
Laboratory ID: 1993-04
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: SPMW-8

Laboratory ID: 1993-04

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/17/88 Analyzed: 12/17/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by Kit Approved by WHC

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-8
Laboratory ID: 1993-04
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
bis(2-Chloroethyl)ether	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
bis(2-Chloroethoxy)methane	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10

(continued on following page)

ND = Not detected.

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: SPMW-8
Laboratory ID: 1993-04
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	µg/L	10
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by

SEMIVOLATILE ORGANICS
ADDITIONAL COMPOUNDS

EPA Method 625

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: Field Blank
Laboratory ID: 1993-05
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Compound Name	Result	Units	Reporting Limit
Pyridine	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by JB

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: Field Blank

Laboratory ID: 1993-05

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/16/88 Analyzed: 12/16/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by Kit Approved by Wlte

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: Field Blank
Laboratory ID: 1993-05
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
bis(2-Chloroethyl)ether	ND	µg/L	10
1,3-Dichlorobenzene	ND	µg/L	10
1,4-Dichlorobenzene	ND	µg/L	10
1,2-Dichlorobenzene	ND	µg/L	10
bis(2-Chloroisopropyl)ether	ND	µg/L	10
N-Nitroso-di-n-propylamine	ND	µg/L	10
Hexachloroethane	ND	µg/L	10
Nitrobenzene	ND	µg/L	10
Isophorone	ND	µg/L	10
bis(2-Chloroethoxy)methane	ND	µg/L	10
1,2,4-Trichlorobenzene	ND	µg/L	10
Naphthalene	ND	µg/L	10
4-Chloroaniline	ND	µg/L	10
Hexachlorobutadiene	ND	µg/L	10
2-Methylnaphthalene	ND	µg/L	10
Hexachlorocyclopentadiene	ND	µg/L	10
2-Chloronaphthalene	ND	µg/L	10
2-Nitroaniline	ND	µg/L	50
Dimethyl phthalate	ND	µg/L	10
Acenaphthylene	ND	µg/L	10
3-Nitroaniline	ND	µg/L	50
Acenaphthene	ND	µg/L	10
Dibenzofuran	ND	µg/L	10
2,4-Dinitrotoluene	ND	µg/L	10
2,6-Dinitrotoluene	ND	µg/L	10
Diethyl phthalate	ND	µg/L	10
4-Chlorophenyl phenyl ether	ND	µg/L	10
Fluorene	ND	µg/L	10
4-Nitroaniline	ND	µg/L	50
N-Nitrosodiphenylamine	ND	µg/L	10
4-Bromophenyl phenyl ether	ND	µg/L	10

(continued on following page)

ND = Not detected.

HAZARDOUS SUBSTANCE LIST (HSL)
SEMIVOLATILE ORGANICS (CONT.)

EPA Method 625/BN/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.
Client ID: Field Blank
Laboratory ID: 1993-05
Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88
Authorized: 12/08/88 Prepared: 12/12/88 Analyzed: 12/31/88

Parameter	Result	Units	Reporting Limit
Hexachlorobenzene	ND	µg/L	10
Phenanthrene	ND	µg/L	10
Anthracene	ND	µg/L	10
Di-n-butyl phthalate	ND	µg/L	10
Fluoranthene	ND	µg/L	10
Pyrene	ND	µg/L	10
Butyl benzyl phthalate	ND	µg/L	10
3,3'-Dichlorobenzidine	ND	µg/L	20
Benzo(a)anthracene	ND	µg/L	10
bis(2-Ethylhexyl)phthalate	ND	µg/L	10
Chrysene	ND	µg/L	10
Di-n-octyl phthalate	ND	µg/L	10
Benzo(b)fluoranthene	ND	µg/L	10
Benzo(k)fluoranthene	ND	µg/L	10
Benzo(a)pyrene	ND	µg/L	10
Indeno(1,2,3-c,d)pyrene	ND	µg/L	10
Dibenzo(a,h)anthracene	ND	µg/L	10
Benzo(g,h,i)perylene	ND	µg/L	10

ND = Not detected.

Reported by BJ Approved by B

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA Method 624/HSL List

Client Name: E.I. du Pont de Nemours & Co., Inc.

Client ID: Trip Blank

Laboratory ID: 1993-06

Matrix: Aqueous Sampled: 12/07/88 Received: 12/08/88

Authorized: 12/08/88 Prepared: 12/17/88 Analyzed: 12/17/88

Parameter	Result	Units	Reporting Limit
Chloromethane	ND	µg/L	10
Bromomethane	ND	µg/L	10
Vinyl chloride	ND	µg/L	10
Chloroethane	ND	µg/L	10
Methylene chloride	ND	µg/L	25
Acetone	ND	µg/L	25
Carbon disulfide	ND	µg/L	5.0
1,1-Dichloroethene	ND	µg/L	5.0
1,1-Dichloroethane	ND	µg/L	5.0
1,2-Dichloroethene (total)	ND	µg/L	5.0
Chloroform	ND	µg/L	5.0
1,2-Dichloroethane	ND	µg/L	5.0
2-Butanone	ND	µg/L	10
1,1,1-Trichloroethane	ND	µg/L	5.0
Carbon tetrachloride	ND	µg/L	5.0
Vinyl acetate	ND	µg/L	10
Bromodichloromethane	ND	µg/L	5.0
1,2-Dichloropropane	ND	µg/L	5.0
cis-1,3-Dichloropropene	ND	µg/L	5.0
Trichloroethene	ND	µg/L	5.0
Dibromochloromethane	ND	µg/L	5.0
1,1,2-Trichloroethane	ND	µg/L	5.0
Benzene	ND	µg/L	5.0
trans-1,3-Dichloropropene	ND	µg/L	5.0
Bromoform	ND	µg/L	5.0
4-Methyl-2-pentanone	ND	µg/L	10
2-Hexanone	ND	µg/L	10
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0
Tetrachloroethene	ND	µg/L	5.0
Toluene	ND	µg/L	5.0
Chlorobenzene	ND	µg/L	5.0
Ethylbenzene	ND	µg/L	5.0
Styrene	ND	µg/L	5.0
Xylene (total)	ND	µg/L	5.0

ND = Not detected.

Reported by KIT Approved by WHL

CLIENT: E.I. du Pont de Nemours & Co., Inc.

SAMPLE RECEIVED: 12/08/88

REPORT COMPLETED: 12/28/88

RESULTS IN: mg/L (ppm)*

REPORTED BY: YLK, DE

CHECKED BY: PIL

INORGANIC ANALYSIS

- Data Report -

Erco ID	Client ID	Oxygen Demand, Chemical	Dissolved Solids, Total
2024-01	SPMW-1	101	391
2024-03	SPMW-3	60	703
Erco Blank		ND	ND
Laboratory Control Spike		99.1%	97.6%
Laboratory Control Spike Dup.		95.6%	97.1%
Reporting Limit:		20	8
Method Used:		410.4	160.1

If customer has any questions regarding analysis, refer to sample in question by its Erco ID#.

*Unless otherwise indicated.

ND = Not detected.

Analytical Services Corp.

ANALYTICAL REPORT

Client: OHM Remediation Services Corporation
Midwest Region (Findlay, OH)

Attn: Tyler M. Vasser
Chester D. Scheibel

Project: 7289 - DuPont, Circleville, OH

Sample Type(s): Liquid

Analysis Performed: Organics

Date Sample Received: August 13, 1994

Date Order Received: August 15, 1994

Joblink(s): 616449

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: _____ *Date:* August 31, 1994
Thomas E. Gran, Ph.D., Vice President

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.

- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

- Samples were received unpreserved.

- Samples #SPMW-1 and #AIRBLK1 were samples on 8/11/94 and submitted to the laboratory on 8/13/94. Sample #AIRBLK1 was analyzed on 8/17/94 for Acetone but resulted in unacceptable surrogate recovery. This sample was subsequently re-analyzed on 8/21/94 and resulted in acceptable surrogate recovery. The results from the re-analysis have been reported.

  Sample #SPMW-1 was analyzed on 8/17/94 for Acetone but resulted in unacceptable QA/QC results. The sample was re-analyzed on 8/21/94 and resulted in acceptable QA/QC. The results from the re-analysis have been reported.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 08/30/94

PAGE: 1

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		SPMW-1	SPMW-1D	SPMW-4	SPMW-5	SPMW-7	SPMW-8	PROD WELL	AIR BLK 1
ASC Sample Number:		JN1384	JN1385	JN1386	JN1387	JN1388	JN1389	JN1390	JN1391
Sample Date:		940811	940811	940811	940811	940811	940811	940811	940811
Facility Code:		007289	007289	007289	007289	007289	007289	007289	007289
Parameters	Units								
Special Requested Volatile Analysis, GC, (GV42)									
Acetone	mg/L	<.010	<.010	<.010	<.010	<.010	.019	<.010	<.010
Special Requested Base/Neutral/Acid Analysis, MS, (MS42)									
Pyridine	mg/L	<.013	<.011	<.011	<.011	<.011	<.011	<.011	<.011

DATA SUMMARY REPORT

DATE: 08/30/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	**AIR BLK 2**	**TRIP BLANK**
	ASC Sample Number:	JN1392	JN1393
	Sample Date:	940811	940810
	Facility Code:	007289	007289
Parameters	Units		
Special Requested Volatile Analysis, GC, (GV42)			
Acetone	mg/L	<.010	<.010

	Sample Point ID:	**AIR BLK 2**
	ASC Sample Number:	JN1392
	Sample Date:	940811
	Facility Code:	007289
Parameters	Units	
Special Requested Base/Neutral/Acid Analysis, MS, (MS42)		
Pyridine	mg/L	<.011

DATA SUMMARY REPORT

DATE: 08/26/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	***MWK-1***	***MWK-2***	***MWK-3***	***MWK-4***
	ASC Sample Number:	JN1394	JN1395	JN1396	JN1397
	Sample Date:	940812	940812	940812	940812
	Facility Code:	007289	007289	007289	007289
Parameters	Units				
Special Requested Base/Neutral/Acid Analysis, MS, (MS42)					
3-Picoline	mg/L	<.012	<.011	<.012	<.012
N,N-Dimethylacetamide	mg/L	<.012	<.011	<.012	<.012

APPENDIX B

QUANTITATIVE RESULTS

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1	JN1384

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

The original analysis of this sample failed QC criteria.

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1D	JN1385

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-4	JN1386

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-5	JN1387

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-7	JN1388

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-8	JN1389

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.019	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	PROD WELL	JN1390

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	AIR BLK 1	JN1391

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

The original analysis of this sample failed QC criteria.

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	AIR BLK 2	JN1392

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	TRIP BLANK	JN1393

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	ND	Q1W3793

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1	JN1384

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.013	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1D	JN1385

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-4	JN1386

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-5	JN1387

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-7	JN1388

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-8	JN1389

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	PROD WELL	JN1390

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	AIR BLK 1	JN1391

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	AIR BLK 2	JN1392

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-1	JN1394

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.012	ND	Q1C41142
3-Picoline	ND	.012	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-2	JN1395

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.011	ND	Q1C41142
3-Picoline	ND	.011	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-3	JN1396

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.012	ND	Q1C41142
3-Picoline	ND	.012	ND	Q1C41142

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-4	JN1397

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.012	ND	Q1C41142
3-Picoline	ND	.012	ND	Q1C41142

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Parameter	Reference	Method
Organics		
Semi-volatile Compounds by GC/MS	SW-846	8270
Aromatic Volatiles by GC	SW-846	8020

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

Approvals:

- Chemical Waste Management ..... Waste Characterization Analysis
- Envirosafe ..... Waste Characterization Analysis
- USDA ..... Permit for Importing Soils
- Florida DEP ..... Quality Assurance Plan #930034G
- Naval Facilities Engineering Service Center ..... Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act

QUALITY ASSURANCE DATA

SPECIAL REQUESTED VOLATILE ANALYSIS, GC, (GV42)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acetone	ND	91	ND	85	9	Q1W3793

QUALITY ASSURANCE DATA

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Pyridine	ND	57	ND	72	14	Q1C41142

QUALITY ASSURANCE DATA

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
N,N-Dimethylacetamide	ND	24	ND	23	10	Q1C41142
3-Picoline	ND	91	ND	114	20	Q1C41142

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

QC BATCH: Q1C41142 **Aqueous (Semi-Volatile organics by MS)**

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
SAMPLE ID							
AIR BLK 1	22	33	60	71	64	59	0
AIR BLK 2	65	63	104	102	94	82	0
BLANK	36	38	79	76	79	85	0
BLANK SPIKE	52	51	104	82	88	86	0
MWK-1	10 *	35	16	80	91	76	1
MWK-2	15 *	29	29	63	73	73	1
MWK-3	32	47	83	81	93	76	0
MWK-4	25	27	105	49	64	68	0
PROD WELL	44	46	93	79	79	78	0
SPMW-1	34	28	49	47	47	52	0
SPMW-1 MD	52	51	71	88	89	73	0
SPMW-1 MS	52	54	91	95	89	77	0
SPMW-1D	33	24	53	49	47	55	0
SPMW-4	31	23	48	43	41 *	51	1
SPMW-5	32	27	7 *	55	52	55	1
SPMW-7	22	31	33	64	67	68	0
SPMW-8	61	92	120	82	81	79	0
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)	

QC BATCH: Q1W3793 **Aqueous (Volatile organics by GC)**

SURROGATE ID	A228	# OUT
SAMPLE ID		
AIR BLK 1	71	0
AIR BLK 1 MD	84	0
AIR BLK 1 MS	94	0
AIR BLK 2	91	0
BLANK	131 *	1
BLANK SPIKE	99	0
PROD WELL	92	0
SPMW-1	99	0
SPMW-1D	66	0
SPMW-4	100	0
SPMW-5	72	0
SPMW-7	75	0
SPMW-8	85	0
TRIP BLANK	83	0
QC LIMITS	(30-130)	

SURROGATE ID

A159 = 2-Fluorophenol
B732 = Phenol-D6
A121 = 2,4,6-Tribromophenol
A884 = Nitrobenzene-D5
A158 = 2-Fluorobiphenyl
B142 = Terphenyl-D14
A228 = a,a,a-Trifluorotoluene

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)
AND
ANALYTICAL REQUEST FORM(S)

OHM Corporation

B COPY

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

146539

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Du Pont
PROJECT LOCATION: Circleville, Ohio
PROJ. NO.: 7289
PROJECT CONTACT: Jamie Bryant
PROJECT TELEPHONE NO.:
CLIENT'S REPRESENTATIVE: Ralph Dowler
PROJECT MANAGER/SUPERVISOR: Jamie Bryant/Bryan MAYNARD

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	Acetone and Pyridine	3-Picoline	N,N-Dimethylacetamide						REMARKS
1	SPMW-5	8.11.94	1030		X	Brown cloudy Liquid	2-32oz 3-40mL	X								
2	SPMW-1	8.11.94	1335		X	Clear colorless liquid	4-32oz 3-40mL	X								Extra 2-32oz for MS/MSD
3	SPMW-1D	8.11.94	1300		X	Clear colorless liquid	2-32oz 3-40mL	X								
4	SPMW-4	8.11.94	1640		X	Gray cloudy Liquid	2-32oz 3-40mL	X								
5	SPMW-8	8.11.94	1533		X	Tan cloudy Liquid	2-32oz 3-40mL	X								
6	SPMW-7	8.11.94	1430		X	Brown cloudy Liquid	2-32oz 3-40mL	X								
7	MWK-1	8.12.94	0954		X	Brown opaque Liquid	4-32oz 3-40mL		X	X						Extra 2-32oz for MS/MSD
8	MWK-2	8.12.94	1035		X	Tan cloudy Liquid	2-32oz 3-40mL		X	X						
9	MWK-3	8.12.94	1141		X	Brown opaque Liquid	2-32oz 3-40mL		X	X						
10	MWK-4	8.12.94	1115		X	Brown opaque Liquid	2-32oz 3-40mL		X	X						

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1→10	Gregory J. Laird	Cooler	8.12.94	1730
2	1-10	cooler	Donita Jensen	8/15/94	0948
3					
4					

REMARKS: Sample descriptions made at point of sample being taken. Settling has made some of these descriptions inaccurate

SAMPLER'S SIGNATURE: Gregory J. Laird

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

146540

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Du Pont
PROJECT LOCATION: Circleville, Ohio
PROJ. NO.: 7289
PROJECT CONTACT: Jamie Bryant
PROJECT TELEPHONE NO.:
CLIENT'S REPRESENTATIVE: Ralph Dowler
PROJECT MANAGER/SUPERVISOR: Jamie Bryant/Bryan Maynard

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): Acetone and Pyridine	REMARKS
1	Production Well	8-11-94	1530		X	Clear colorless liquid	2-32oz 3-40ml	X	
2	Air Blank 1	8-11-94	1535		X	Clear colorless liquid	2-32oz 3-40ml	X	taken next to Production Well
3	Air Blank 2	8-11-94	1626		X	Clear colorless liquid	2-32oz 3-40ml	X	taken next to SPMW-4 and SPMW-8
4	Trip Blank	8-10-94	1600		X	Clear colorless liquid	2-40ml		
5									
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-4	Gregory J. Laird	Cooler	8-12-94	1730
2	1-4	Cooler	Donita Jansen	8-15-94	0748
3					
4					

REMARKS: Sample descriptions made at time of sample being taken. Settling has made some of these descriptions inaccurate

Gregory J. Laird
SAMPLER'S SIGNATURE

OHM Corporation

REQUEST FOR ANALYTICAL SERVICES

PROJECT INFORMATION

Project Name:	Dupont	Project No:	07289
Client:	Dupont	Project Manager:	Tyler Vassar
Project Location:	Circleville, OH	Technical Manager:	
Date Submitted		QA Officer:	Chet Scheibel
ARF Date:	5/16/94	Sampling Date:	Quarterly

Laboratory Information

LABORATORY INFORMATION	
Laboratory Name	ASC
Street Address	
City, State	
Phone Number	
Laboratory Contact	Glenn Knieriem

APPROVALS

	SIGNATURES
QUALITY ASSURANCE OFFICER	Chet Scheibel
PROJECT MANAGER	T M Vassar
CLIENT REPRESENTATIVE	

SAMPLE INFORMATION

Quantity	Matrix	Description	Analyses	Turn-around time
14	Water	Well Water	VOC, SVOC	21 Days

Sampling Quality Assurance Samples

Quantity	Sample Matrix	Field Quality Assurance Samples
2	Water	Field Blanks (Matrix Blanks)
1	Water	Equipment Blanks
1	Water	Trip Blanks
NA		Replicate Samples

Laboratory Quality Assurance Quality Control

Quantity	Matrix	Quality Assurance Samples Required
1 per batch	Water	Method Blank
1 per batch	Water	Method Spike
1 per batch	Water	Matrix Spike
1 per batch	Water	Matrix Spike Duplicate

Required Laboratory Certifications

Request	Certification	Request	Certification
	EPA Contract Laboratory		Corp of Engineers
	State:		MBE, WBE or SDB
	Client:		Other

Deliverables

Request	Deliverable	Request	Deliverable
X	Standard Analytical Report		QC raw data
X	Analytical Summary		Instrument raw data
X	QC Report		CLP package

AROMATIC VOLATILE ORGANIC ANALYSES BY GC				
Quantity	Matrix	Parameter	Reference Method	Detection Limit
	Water	Total Aromatic Volatile Organic Analyses	8020	
13		Acetone	8020	10 ug/L

SEMIVOLATILE ANALYSES BY GCMS				
Quantity	Matrix	Parameter	Reference Method	Detection Limit
	Water	Semivolatile Organics	8270 or 8270A	
13	Water	Pyridine		10 ug/L
5	Water	3-Picoline		12 ug/L
5	Water	N,N-Dimethylacetamide		12 ug/L

Sample Size and Preservation:

1. VOC 3 X 40 mL vials Cool 4 degrees C

2. SVOC 2 X 1 liter BR each well plus Cool 4 degrees C
2 x 1 liter from one SPMW and one
MWK Well for MS/MSD - 4 liter
total from 1 SPMW and 1 MWK

Acetone	Pyridine	Picoline/ N,N-dimethlyacetamide
SPMW-1	SPMW-1	MWK-1
SPMW-2	SPMW-2	MWK-2
SPMW-3	SPMW-3	MWK-3
SPMW-4	SPMW-4	MWK-4
SPMW-5	SPMW-5	
SPMW-6	SPMW-6	
SPMW-7	SPMW-7	
SPMW-8	SPMW-8	
Trip Blank		
FB-1	FB-1	
FB-2	FB-2	
EB-1	EB-1	EB-1

Analytical Services Corp.

ANALYTICAL REPORT

Client: OHM Remediation Services Corporation
Midwest Region (Findlay, OH)

Attn: Jaime Bryant
Chester D. Scheibel

Project: 7289 - DuPont, Circleville, OH

Sample Type(s): Liquid

Analysis Performed: Organics

Date Sample Received: November 10, 1994

Date Order Received: November 10, 1994

Joblink(s): 617056

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. Analytical Services Corporation assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: _____ *Date:* December 9, 1994
Thomas E. Gran, Ph.D., Vice President

16406 U.S. Route 224 East ■ P.O. Box 1404 ■ Findlay, Ohio 45839-1404 ■ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- Note any and all comments at the bottom of the tables in Appendix B and/or Appendix C.

- **ASC** will retain samples for a maximum of thirty (30) days after completion of the analysis, samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

- Low levels of Acetone were detected in the method blank. Samples could not be re-analyzed due to holding time considerations. No method spike recovery was reported for this parameter. Batch acceptance is based on matrix spike recoveries which were within QC limits.

- Poor spike recoveries were noted for N-N-Dimethylacetamide. This compound typically results in poor spike recoveries following Method 8270.

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 12/09/94

Company: OHM REMEDIATION SERVICES CORPORATION

Sample Point ID:		SPMW-1	SPMW-3	SPMW-5	PROD-WELL	BLANK#1	SPMW-1D	SPMW-7	SPMW-7D
ASC Sample Number:		JN4693	JN4694	JN4695	JN4696	JN4697	JN4698	JN4699	JN4700
Sample Date:		941108	941108	941108	941108	941108	941109	941109	941109
Facility Code:		007289	007289	007289	007289	007289	007289	007289	007289
Parameters	Units								
Aromatic Volatile Analysis, GC, (GV31)									
Acetone	mg/L	.015	<.010	<.010	<.010	<.010	<.010	<.010	.012
Special Requested Base/Neutral/Acid Analysis, MS, (MS42)									
Pyridine	mg/L	<.014	<.011	<.011	<.011	<.011	<.011	<.011	<.011

DATA SUMMARY REPORT

DATE: 12/09/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	SPMW-8	BLANK#2	SPMW-4	SPMW-6
	ASC Sample Number:	JN4701	JN4702	JN4703	JN4704
	Sample Date:	941109	941109	941109	941109
	Facility Code:	007289	007289	007289	007289
Parameters	Units				
Aromatic Volatile Analysis, GC, (GV31)					
Acetone	mg/L	.010	.012	.013	<.010
Special Requested Base/Neutral/Acid Analysis, MS, (MS42)					
Pyridine	mg/L	<.011	<.011	<.011	<.011

DATA SUMMARY REPORT

DATE: 12/09/94

Company: OHM REMEDIATION SERVICES CORPORATION

	Sample Point ID:	MWK-1	MWK-2	MWK-3	MWK-4
	ASC Sample Number:	JN4705	JN4706	JN4707	JN4708
	Sample Date:	941109	941109	941109	941109
	Facility Code:	007289	007289	007289	007289
Parameters	Units				
Special Requested Base/Neutral/Acid Analysis, MS, (MS42)					
3-Picoline	mg/L	<.011	<.011	<.011	<.011
N,N-Dimethylacetamide	mg/L	<.011	<.011	<.011	<.011

APPENDIX B

QUANTITATIVE RESULTS

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1	JN4693

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.015	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-3	JN4694

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-5	JN4695

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	PROD-WELL	JN4696

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	BLANK#1	JN4697

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1D	JN4698

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-7	JN4699

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-7D	JN4700

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.012	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-8	JN4701

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.010	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	BLANK#2	JN4702

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.012	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-4	JN4703

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	.013	.010	.01	Q1W4039

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-6	JN4704

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Acetone	ND	.010	.01	Q1W4039

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1	JN4693

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.014	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-3	JN4694

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-5	JN4695

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	PROD-WELL	JN4696

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	BLANK#1	JN4697

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-1D	JN4698

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-7	JN4699

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-7D	JN4700

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-8	JN4701

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	BLANK#2	JN4702

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-4	JN4703

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	SPMW-6	JN4704

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Pyridine	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-1	JN4705

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.011	ND	Q1C41687
3-Picoline	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-2	JN4706

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.011	ND	Q1C41687
3-Picoline	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-3	JN4707

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.011	ND	Q1C41687
3-Picoline	ND	.011	ND	Q1C41687

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Company Name	Facility	Sample Point	ASC Sample No.
OHM REMEDIATION SERVICES CORPORATION	007289	MWK-4	JN4708

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
N,N-Dimethylacetamide	ND	.011	ND	Q1C41687
3-Picoline	ND	.011	ND	Q1C41687

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

ASC Joblink # 617056

REFERENCE		TITLE
8020	SW-846	Aromatic Volatile Organics by GC
8270	SW-846	GC/MS for Semivolatile Organics: Capillary Column Technique

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
CAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*, Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

ASC Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- US Army Corps of Engineers . . . . . Chemical Analysis in Various Matrices

Approvals:

- Chemical Waste Management . . . . . Waste Characterization Analysis
- Envirosafe . . . . . Waste Characterization Analysis
- USDA . . . . . Permit for Importing Soils
- Florida DEP . . . . . Quality Assurance Plan #930034G
- Naval Facilities Engineering Service Center . . . . . Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample (Tedlar Bag)
ug/smp	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act
SOW	=	Statement of Work

QUALITY ASSURANCE DATA

AROMATIC VOLATILE ANALYSIS, GC, (GV31)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Acetone	.01	-	ND	62	33	Q1W4039

QUALITY ASSURANCE DATA

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
Pyridine	ND	47	ND	80	1	Q1C41687

QUALITY ASSURANCE DATA

SPECIAL REQUESTED BASE/NEUTRAL/ACID ANALYSIS, MS, (MS42)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Number
N,N-Dimethylacetamide	ND	5	ND	24	16	Q1C41687
3-Picoline	ND	99	ND	127	21	Q1C41687

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

QC BATCH: Q1C41687 **Aqueous (Semi-Volatile organics by MS)**

SURROGATE ID	A159	B732	A121	A884	A158	B142	# OUT
SAMPLE ID							
BLANK	61	47	100	68	62	63	0
BLANK SPIKE	42	29	87	64	56	69	0
BLANK#1	52	37	102	78	74	52	0
BLANK#2	50	38	101	77	73	69	0
MWK-1	24	36	38	76	74	79	0
MWK-2	47	34	97	67	65	76	0
MWK-3	39	32	99	63	65	77	0
MWK-4	60	41	120	92	90	140	0
PROD-WELL	60	45	109	82	77	89	0
SPMW-1	59	48	123	78	74	108	0
SPMW-1 MD	68	51	103	81	78	92	0
SPMW-1 MS	61	54	93	72	67	84	0
SPMW-1D	43	31	100	63	57	89	0
SPMW-3	49	35	103	72	70	99	0
SPMW-4	59	41	109	82	78	86	0
SPMW-5	54	38	114	82	81	98	0
SPMW-6	62	44	129 *	92	96	109	1
SPMW-7	49	35	92	71	66	78	0
SPMW-7D	56	39	103	80	74	85	0
SPMW-8	54	40	98	80	91	88	0
QC LIMITS	(21-110)	(10-110)	(10-123)	(35-114)	(43-116)	(33-141)	

QC BATCH: Q1W4039 **Aqueous (Volatile organics by GC)**

SURROGATE ID	A228	# OUT
SAMPLE ID		
BLANK	101	0
BLANK#1	102	0
BLANK#2	98	0
PROD-WELL	101	0
SPMW-1	100	0
SPMW-1D	104	0
SPMW-3	104	0
SPMW-4	102	0
SPMW-5	99	0
SPMW-6	103	0
SPMW-6 MD	100	0
SPMW-6 MS	102	0
SPMW-7	100	0
SPMW-7D	102	0
SPMW-8	104	0
QC LIMITS	(30-130)	

SURROGATE ID

A159 = 2-Fluorophenol
B732 = Phenol-D6
A121 = 2,4,6-Tribromophenol
A884 = Nitrobenzene-D5
A158 = 2-Fluorobiphenyl
B142 = Terphenyl-D14
A228 = a,a,a-Trifluorotoluene

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)
AND
ANALYTICAL REQUEST FORM(S)

OHM Corporation

CHAIN-OF-CUSTODY RECORD

LAB COPY

Form 0019
Field Technical Services
Rev. 08/89

148318

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: Du Pont.	PROJECT LOCATION: Circleville, OH
PROJ. NO.: 7289	PROJECT CONTACT: J. Bryant.
PROJECT TELEPHONE NO.: —	
CLIENT'S REPRESENTATIVE: Mike Taylor	PROJECT MANAGER/SUPERVISOR: J. Bryant

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): ACETONE, PYRIDINE

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ACETONE	PYRIDINE							REMARKS
1	SPMW-5	11/8/94	1030		/	Water Brn Cdy.	2-Qt 3-40mL	/	/							
2	SPMW-3	↑	1130			Water Black Silty	↑	/	/							
3	Production Well		1315			Water Clear Colorless		/	/							
4	Air Blank #1	↓	1320			Water Blank By Production Well		/	/							
5	SPMW-1	11/8/94	1700			Water Brown Silty		/	/							
6	SPMW-1D	11/9/94	0900			Water Clr Cdy.		/	/							
7	SPMW-7	0	0940			Water Silty Brn		/	/							
8	SPMW-7D		0945			Water Silty Brn		/	/							
9	SPMW-8		1050			Water Brn Cdy	↓	/	/							
10	Air Blank #2		1100			Blank Next To SPMW-8	2-Qt 3-40mL	/	/							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-10	[signature]	Cooler	11/9/94	2130
2	1-10	COOLER	Donita Jensen	11-10 94	07:01
3					
4					

REMARKS: Analysis + TAT By ABE

SAMPLER'S SIGNATURE: [signature] temp 4°C

B COPY

OHM Corporation

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

148319

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME: DuPont	PROJECT LOCATION: Circleville, OH
PROJ. NO.: 7289	PROJECT CONTACT: J. Bryant
PROJECT TELEPHONE NO.: —	
CLIENT'S REPRESENTATIVE: M. Taylor	PROJECT MANAGER/SUPERVISOR: J. Bryant

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ACETONE	PYRIDINE	PICOLINE	N,N-DIMETHYLACETAMIDE				REMARKS
1	SPMW-4	11/8/94	1140		/	Water Gry CDY	2-Qt 3-40mL	/	/						
2	MWK-2	↑	1330			Water Brn silty	↑			/	/				
3	MWK-1		1400			Water Brn CDY				/	/				
4	MWK-4		1500			WATER Brn CDY				/	/				
5	SPMW-6	↓	1530			Water Brn CDY	↓	/	/						
6	MWK-3	11/9/94	1730		/	Water Black	2-Qt. 3-40mL			/	/				
7															
8															
9															
10															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	1-6	[signature]	Cooler	11/8/94	2130
2	1-6	Cooler	Donita Jensen	11-10 94	01:01
3					
4					

REMARKS: Analysis + TAT per ARF

temp. 4°C

SAMPLER'S SIGNATURE: [signature]

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

REQUEST FOR ANALYTICAL SERVICES

PROJECT INFORMATION

Project Name:	Dupont	Project Number:	07289
Client:	Dupont	Project Manager:	Jaime Bryant
Project Location:	Circleville, OH	Technical Manager:	
Date Submitted		Laboratory Program Manager:	Chet Scheibel
ARF Date:	10/28/94	Sampling Date:	Quarterly

LABORATORY INFORMATION

LABORATORY INFORMATION	
Laboratory Name	ASC
Street Address	
City, State	
Phone Number	
Laboratory Contact	Bill Fithian

APPROVALS

	SIGNATURES
LABORATORY PROGRAM MANAGER	Chet S Scheibel
PROJECT MANAGER	J. T. [illegible]
CLIENT REPRESENTATIVE	

SAMPLE INFORMATION

Quantity	Matrix	Description	Analyses	Turn-around time
14	Waters	Monitoring Wells	VOC, SVOC	21 Days

NOTE:(1) The results (including QA) may be "faxed" to the Technical QA Officer with a required TAT of seven (7) days or less. An ORIGINAL COPY of the complete data package must then be received within five (5) calendar days of the "fax" date.

(2) For a required TAT of greater than seven (7) days, an ORIGINAL COPY of the complete data package must be received within the requested TAT. The data (including QA) may be "faxed" at an earlier date but the hard copy must be received by the TAT due date.

(3) Please complete the **LABORATORY SAMPLE RECEPTION CONFIRMATION** FORM ATTACHED.

Sampling Quality Assurance Samples

Quantity	Sample Matrix	Field Quality Assurance Samples
2	Water	Field Blanks (Matrix Blanks)
1	Water	Equipment Blanks
1	Water	Trip Blanks
NA		Replicate Samples

Laboratory Quality Assurance Quality Control

Quantity	Matrix	Quality Assurance Samples Required
1 per batch	Water	Method Blank
1 per batch	Water	Method Spike
1 per batch	Water	Matrix Spike
1 per batch	Water	Matrix Spike Duplicate

Required Laboratory Certifications

Request	Certification	Request	Certification
	EPA Contract Laboratory		Corp of Engineers
	State:		MBE, WBE or SDB
	Client:		Other

Deliverables

Request	Deliverable	Request	Deliverable
X	Standard Analytical Report		QC raw data
X	Analytical Summary		Instrument raw data
X	QC Report		CLP package

AROMATIC VOLATILE ORGANIC ANALYSES BY GC				
Quantity	Matrix	Parameter	Reference Method	Detection Limit
	Water	Total Aromatic Volatile Organic Analyses	8020	
13		Acetone	8020	10 ug/L

SEMIVOLATILE ANALYSES BY GCMS				
Quantity	Matrix	Parameter	Reference Method	Detection Limit
	Water	Semivolatile Organics	8270 or 8270A	
13	Water	Pyridine		10 ug/L
5	Water	3-Picoline		12 ug/L
5	Water	N,N-Dimethylacetamide		12 ug/L

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

CIRCLEVILLE

GW MONITORING-4TH QTR-1995

Conoco Inc.
P.O. Box 1267
Ponca City, OK 74602-1267
(405) 767-3456

CIRCLEVILLE

GW MONITORING-4TH QTR-1995

RESULTS

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: DB-2
Sample Name: CIR-DB-2
Date Sampled: October 11, 1995
Lab Sample ID: 2398439-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1-DICHLOROETHENE	1	110.	1.	5	UG/L	Oct 21, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		91.0	Oct 21, 1995
BROMOFLUOROBENZENE		93.0	Oct 21, 1995
TOLUENE-D8		95.0	Oct 21, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: DB-3
Sample Name: CIR-DB-3
Date Sampled: October 11, 1995
Lab Sample ID: 2398440-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1-DICHLOROETHENE	10	1300.	1.	5	UG/L	Oct 21, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		92.0	Oct 21, 1995
BROMOFLUOROBENZENE		92.0	Oct 21, 1995
TOLUENE-D8		95.0	Oct 21, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: EQBLK-1
Sample Name: CIR-EQBLK-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398437-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 21, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 21, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 21, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 21, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 21, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 21, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 21, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 21, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 21, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 21, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 21, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 21, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 21, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 21, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 21, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 21, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 21, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 21, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 21, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 21, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 21, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 21, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 21, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		88.0	Oct 21, 1995
BROMOFLUOROBENZENE		92.0	Oct 21, 1995
TOLUENE-D8		95.0	Oct 21, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: EQBLK-1
Sample Name: CIR-EQBLK-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398437-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		61.0	Oct 19, 1995
2-FLUOROBIPHENYL		80.0	Oct 19, 1995
2-FLUOROPHENOL		55.0	Oct 19, 1995
NITROBENZENE-D5		82.0	Oct 19, 1995
PHENOL-D6		38.0	Oct 19, 1995
TERPHENYL-D14		98.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-EQBLK-3
Sample Name: CIR-EQBLK-3
Date Sampled: October 10, 1995
Lab Sample ID: 2396928-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 16, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		97.0	Oct 16, 1995
BROMOFLUOROBENZENE		92.0	Oct 16, 1995
TOLUENE-D8		98.0	Oct 16, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 18, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-EQBLK-3
Sample Name: CIR-EQBLK-3
Date Sampled: October 10, 1995
Lab Sample ID: 2396928-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 18, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 18, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 18, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 18, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 18, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 18, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		65.0	Oct 18, 1995
2-FLUOROBIPHENYL		75.0	Oct 18, 1995
2-FLUOROPHENOL		52.0	Oct 18, 1995
NITROBENZENE-D5		78.0	Oct 18, 1995
PHENOL-D6		35.0	Oct 18, 1995
TERPHENYL-D14		105.0	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-1
Sample Name: CIR-M-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398431-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		93.0	Oct 20, 1995
BROMOFLUOROBENZENE		88.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-1
Sample Name: CIR-M-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398431-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.		20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	2.	J	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.		3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.		3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.		2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.		1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PHENOL	1	2.	J	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.		2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		74.0	Oct 19, 1995
2-FLUOROBIPHENYL		77.0	Oct 19, 1995
2-FLUOROPHENOL		50.0	Oct 19, 1995
NITROBENZENE-D5		77.0	Oct 19, 1995
PHENOL-D6		35.0	Oct 19, 1995
TERPHENYL-D14		107.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-2D
Sample Name: CIR-M-2D
Date Sampled: October 11, 1995
Lab Sample ID: 2398433-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		94.0	Oct 20, 1995
BROMOFLUOROBENZENE		91.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-2D
Sample Name: CIR-M-2D
Date Sampled: October 11, 1995
Lab Sample ID: 2398433-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		66.0	Oct 19, 1995
2-FLUOROBIPHENYL		82.0	Oct 19, 1995
2-FLUOROPHENOL		55.0	Oct 19, 1995
NITROBENZENE-D5		86.0	Oct 19, 1995
PHENOL-D6		41.0	Oct 19, 1995
TERPHENYL-D14		108.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-2S
Sample Name: CIR-M-2S
Date Sampled: October 11, 1995
Lab Sample ID: 2398432-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		93.0	Oct 20, 1995
BROMOFLUOROBENZENE		93.0	Oct 20, 1995
TOLUENE-D8		93.0	Oct 20, 1995

Method Number: 8270B

Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-2S
Sample Name: CIR-M-2S
Date Sampled: October 11, 1995
Lab Sample ID: 2398432-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.		20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.		3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.		3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.		2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.		1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PHENOL	1	1.	J	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.		2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		70.0	Oct 19, 1995
2-FLUOROBIPHENYL		81.0	Oct 19, 1995
2-FLUOROPHENOL		53.0	Oct 19, 1995
NITROBENZENE-D5		81.0	Oct 19, 1995
PHENOL-D6		37.0	Oct 19, 1995
TERPHENYL-D14		102.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-3
Sample Name: CIR-M-3
Date Sampled: October 11, 1995
Lab Sample ID: 2398434-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		93.0	Oct 20, 1995
BROMOFLUOROBENZENE		93.0	Oct 20, 1995
TOLUENE-D8		93.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-3
Sample Name: CIR-M-3
Date Sampled: October 11, 1995
Lab Sample ID: 2398434-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		60.0	Oct 19, 1995
2-FLUOROBIPHENYL		78.0	Oct 19, 1995
2-FLUOROPHENOL		48.0	Oct 19, 1995
NITROBENZENE-D5		79.0	Oct 19, 1995
PHENOL-D6		34.0	Oct 19, 1995
TERPHENYL-D14		95.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-4D
Sample Name: CIR-M-4D
Date Sampled: October 11, 1995
Lab Sample ID: 2398436-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		92.0	Oct 20, 1995
BROMOFLUOROBENZENE		89.0	Oct 20, 1995
TOLUENE-D8		89.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-4D
Sample Name: CIR-M-4D
Date Sampled: October 11, 1995
Lab Sample ID: 2398436-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		58.0	Oct 19, 1995
2-FLUOROBIPHENYL		80.0	Oct 19, 1995
2-FLUOROPHENOL		36.0	Oct 19, 1995
NITROBENZENE-D5		86.0	Oct 19, 1995
PHENOL-D6		26.0	Oct 19, 1995
TERPHENYL-D14		103.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-4S
Sample Name: CIR-M-4S
Date Sampled: October 11, 1995
Lab Sample ID: 2398435-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		93.0	Oct 20, 1995
BROMOFLUOROBENZENE		92.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-4S
Sample Name: CIR-M-4S
Date Sampled: October 11, 1995
Lab Sample ID: 2398435-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.		20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.		3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.		3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.		2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.		1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PHENOL	1	2.	J	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.		2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		63.0	Oct 19, 1995
2-FLUOROBIPHENYL		75.0	Oct 19, 1995
2-FLUOROPHENOL		51.0	Oct 19, 1995
NITROBENZENE-D5		79.0	Oct 19, 1995
PHENOL-D6		35.0	Oct 19, 1995
TERPHENYL-D14		95.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-6D-1
Sample Name: CIR-M-6D-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398424-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.		1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.		1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.		1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.		2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.		6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.		1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.		1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.		1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.		3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.		1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	1.	J	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.		3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.		1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.		3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.		2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.		1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.		2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.		2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.		2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.		1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.		2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.		2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.		1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	1.	J	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.		2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		91.0	Oct 20, 1995
BROMOFLUOROBENZENE		90.0	Oct 20, 1995
TOLUENE-D8		93.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-6D-1
Sample Name: CIR-M-6D-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398424-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.		20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.		3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.		3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.		2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.		1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PHENOL	1	2.	J	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.		2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		64.0	Oct 19, 1995
2-FLUOROBIPHENYL		82.0	Oct 19, 1995
2-FLUOROPHENOL		36.0	Oct 19, 1995
NITROBENZENE-D5		81.0	Oct 19, 1995
PHENOL-D6		25.0	Oct 19, 1995
TERPHENYL-D14		110.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-6D-2
Sample Name: CIR-M-6D-2
Date Sampled: October 11, 1995
Lab Sample ID: 2398425-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		92.0	Oct 20, 1995
BROMOFLUOROBENZENE		92.0	Oct 20, 1995
TOLUENE-D8		94.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-6D-2
Sample Name: CIR-M-6D-2
Date Sampled: October 11, 1995
Lab Sample ID: 2398425-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		67.0	Oct 19, 1995
2-FLUOROBIPHENYL		82.0	Oct 19, 1995
2-FLUOROPHENOL		35.0	Oct 19, 1995
NITROBENZENE-D5		84.0	Oct 19, 1995
PHENOL-D6		26.0	Oct 19, 1995
TERPHENYL-D14		102.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-6S
Sample Name: CIR-M-6S
Date Sampled: October 11, 1995
Lab Sample ID: 2398426-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		91.0	Oct 20, 1995
BROMOFLUOROBENZENE		88.0	Oct 20, 1995
TOLUENE-D8		90.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-6S
Sample Name: CIR-M-6S
Date Sampled: October 11, 1995
Lab Sample ID: 2398426-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.		20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.		1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.		2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	19.		2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	2.	J	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.		1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	2.	J	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.		3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.		3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.		2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.		2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.		1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.		2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.		1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.		1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.		1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.		2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		72.0	Oct 19, 1995
2-FLUOROBIPHENYL		75.0	Oct 19, 1995
2-FLUOROPHENOL		40.0	Oct 19, 1995
NITROBENZENE-D5		77.0	Oct 19, 1995
PHENOL-D6		29.0	Oct 19, 1995
TERPHENYL-D14		98.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-7
Sample Name: CIR-M-7
Date Sampled: October 11, 1995
Lab Sample ID: 2398421-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		92.0	Oct 20, 1995
BROMOFLUOROBENZENE		92.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 18, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: M-7
Sample Name: CIR-M-7
Date Sampled: October 11, 1995
Lab Sample ID: 2398421-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
BENZIDINE	1	< 20.		20.	50	UG/L	Oct 18, 1995
BENZO (A) ANTHRACENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
BENZO (A) PYRENE	1	< 2.		2.	10	UG/L	Oct 18, 1995
BENZO (B) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 18, 1995
BENZO (GHI) PERYLENE	1	< 2.		2.	10	UG/L	Oct 18, 1995
BENZO (K) FLUORANTHENE	1	< 2.		2.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.		1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.		1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.		2.	10	UG/L	Oct 18, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.		2.	10	UG/L	Oct 18, 1995
BUTYL BENZYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 18, 1995
CHRYSENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
DI-N-BUTYL PHTHALATE	1	< 1.		1.	10	UG/L	Oct 18, 1995
DI-N-OCTYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 18, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.		2.	10	UG/L	Oct 18, 1995
DIETHYL PHTHALATE	1	< 2.		2.	10	UG/L	Oct 18, 1995
DIMETHYL PHTHALATE	1	< 3.		3.	10	UG/L	Oct 18, 1995
FLUORANTHENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
FLUORENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
HEXACHLOROBENZENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
HEXACHLOROBUTADIENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.		3.	10	UG/L	Oct 18, 1995
HEXACHLOROETHANE	1	< 2.		2.	10	UG/L	Oct 18, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.		2.	10	UG/L	Oct 18, 1995
ISOPHORONE	1	< 1.		1.	10	UG/L	Oct 18, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.		1.	10	UG/L	Oct 18, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.		2.	10	UG/L	Oct 18, 1995
N-NITROSODIMETHYLAMINE	1	< 2.		2.	10	UG/L	Oct 18, 1995
N-NITROSODIPHENYLAMINE	1	< 2.		2.	10	UG/L	Oct 18, 1995
NAPHTHALENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
NITROBENZENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
PENTACHLOROPHENOL	1	< 1.		1.	25	UG/L	Oct 18, 1995
PHENANTHRENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
PHENOL	1	2.	J	1.	10	UG/L	Oct 18, 1995
PYRENE	1	< 1.		1.	10	UG/L	Oct 18, 1995
PYRIDINE	1	< 2.		2.	10	UG/L	Oct 18, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		71.0	Oct 18, 1995
2-FLUOROBIPHENYL		88.0	Oct 18, 1995
2-FLUOROPHENOL		45.0	Oct 18, 1995
NITROBENZENE-D5		82.0	Oct 18, 1995
PHENOL-D6		33.0	Oct 18, 1995
TERPHENYL-D14		105.0	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-1
Sample Name: CIR-MW-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398422-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		88.0	Oct 20, 1995
BROMOFLUOROBENZENE		90.0	Oct 20, 1995
TOLUENE-D8		91.0	*Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 18, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-1
Sample Name: CIR-MW-1
Date Sampled: October 11, 1995
Lab Sample ID: 2398422-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 18, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 18, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 18, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 18, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 18, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 18, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		68.0	Oct 18, 1995
2-FLUOROBIPHENYL		85.0	Oct 18, 1995
2-FLUOROPHENOL		44.0	Oct 18, 1995
NITROBENZENE-D5		84.0	Oct 18, 1995
PHENOL-D6		33.0	Oct 18, 1995
TERPHENYL-D14		110.0	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-10
Sample Name: CIR-MW-10
Date Sampled: October 11, 1995
Lab Sample ID: 2398428-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		92.0	Oct 20, 1995
BROMOFLUOROBENZENE		92.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-10
Sample Name: CIR-MW-10
Date Sampled: October 11, 1995
Lab Sample ID: 2398428-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		71.0	Oct 19, 1995
2-FLUOROBIPHENYL		85.0	Oct 19, 1995
2-FLUOROPHENOL		52.0	Oct 19, 1995
NITROBENZENE-D5		84.0	Oct 19, 1995
PHENOL-D6		37.0	Oct 19, 1995
TERPHENYL-D14		112.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-4
Sample Name: CIR-MW-4
Date Sampled: October 11, 1995
Lab Sample ID: 2398423-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		90.0	Oct 20, 1995
BROMOFLUOROBENZENE		89.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 18, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-4
Sample Name: CIR-MW-4
Date Sampled: October 11, 1995
Lab Sample ID: 2398423-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 18, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 18, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 18, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 18, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 18, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 18, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		68.0	Oct 18, 1995
2-FLUOROBIPHENYL		86.0	Oct 18, 1995
2-FLUOROPHENOL		47.0	Oct 18, 1995
NITROBENZENE-D5		87.0	Oct 18, 1995
PHENOL-D6		34.0	Oct 18, 1995
TERPHENYL-D14		104.0	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-6
Sample Name: CIR-MW-6
Date Sampled: October 11, 1995
Lab Sample ID: 2398429-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		93.0	Oct 20, 1995
BROMOFLUOROBENZENE		90.0	Oct 20, 1995
TOLUENE-D8		92.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-6
Sample Name: CIR-MW-6
Date Sampled: October 11, 1995
Lab Sample ID: 2398429-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		60.0	Oct 19, 1995
2-FLUOROBIPHENYL		79.0	Oct 19, 1995
2-FLUOROPHENOL		39.0	Oct 19, 1995
NITROBENZENE-D5		79.0	Oct 19, 1995
PHENOL-D6		28.0	Oct 19, 1995
TERPHENYL-D14		102.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-9
Sample Name: CIR-MW-9
Date Sampled: October 11, 1995
Lab Sample ID: 2398427-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		94.0	Oct 20, 1995
BROMOFLUOROBENZENE		92.0	Oct 20, 1995
TOLUENE-D8		93.0	Oct 20, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 19, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 19, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 19, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: MW-9
Sample Name: CIR-MW-9
Date Sampled: October 11, 1995
Lab Sample ID: 2398427-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 19, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 19, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 19, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 19, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 19, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 19, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 19, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 19, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 19, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 19, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 19, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 19, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 19, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		74.0	Oct 19, 1995
2-FLUOROBIPHENYL		82.0	Oct 19, 1995
2-FLUOROPHENOL		57.0	Oct 19, 1995
NITROBENZENE-D5		84.0	Oct 19, 1995
PHENOL-D6		39.0	Oct 19, 1995
TERPHENYL-D14		105.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-PW-2
Sample Name: CIR-PW-2
Date Sampled: October 10, 1995
Lab Sample ID: 2396930-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		98.0	Oct 19, 1995
BROMOFLUOROBENZENE		93.0	Oct 19, 1995
TOLUENE-D8		93.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-PW-3
Sample Name: CIR-PW-3
Date Sampled: October 10, 1995
Lab Sample ID: 2396931-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		101.0	Oct 19, 1995
BROMOFLUOROBENZENE		90.0	Oct 19, 1995
TOLUENE-D8		93.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-PW-4
Sample Name: CIR-PW-4
Date Sampled: October 10, 1995
Lab Sample ID: 2396932-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		98.0	Oct 19, 1995
BROMOFLUOROBENZENE		101.0	Oct 19, 1995
TOLUENE-D8		95.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-PW-5
Sample Name: CIR-PW-5
Date Sampled: October 10, 1995
Lab Sample ID: 2396933-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		98.0	Oct 19, 1995
BROMOFLUOROBENZENE		91.0	Oct 19, 1995
TOLUENE-D8		97.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-PW-6
Sample Name: CIR-PW-6
Date Sampled: October 10, 1995
Lab Sample ID: 2396934-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		100.0	Oct 19, 1995
BROMOFLUOROBENZENE		94.0	Oct 19, 1995
TOLUENE-D8		98.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-PW-7
Sample Name: CIR-PW-7
Date Sampled: October 10, 1995
Lab Sample ID: 2396935-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		100.0	Oct 19, 1995
BROMOFLUOROBENZENE		90.0	Oct 19, 1995
TOLUENE-D8		97.0	Oct 19, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-1
Sample Name: CIR-SPMW-1
Date Sampled: October 10, 1995
Lab Sample ID: 2396922-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 13, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 13, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 13, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 13, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 13, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 13, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 13, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 13, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 13, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 13, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 13, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 13, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 13, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 13, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 13, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 13, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 13, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 13, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 13, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 13, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 13, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 13, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 13, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		98.0	Oct 13, 1995
BROMOFLUOROBENZENE		96.0	Oct 13, 1995
TOLUENE-D8		97.0	Oct 13, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 16, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 16, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 16, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 16, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 16, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 16, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 16, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 16, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 16, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 16, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 16, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 16, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 16, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-1
Sample Name: CIR-SPMW-1
Date Sampled: October 10, 1995
Lab Sample ID: 2396922-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 16, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 16, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 16, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 16, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 16, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 16, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 16, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 16, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 16, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 16, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 16, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 16, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 16, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 16, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 16, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 16, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 16, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 16, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 16, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 16, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 16, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		69.0	Oct 16, 1995
2-FLUOROBIPHENYL		78.0	Oct 16, 1995
2-FLUOROPHENOL		32.0	Oct 16, 1995
NITROBENZENE-D5		78.0	Oct 16, 1995
PHENOL-D6		23.0	Oct 16, 1995
TERPHENYL-D14		88.0	Oct 16, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-1D
Sample Name: CIR-SPMW-1D
Date Sampled: October 10, 1995
Lab Sample ID: 2396923-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 14, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 14, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 14, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 14, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 14, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 14, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 14, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 14, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 14, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 14, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 14, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 14, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 14, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		109.0	Oct 14, 1995
BROMOFLUOROBENZENE		98.0	Oct 14, 1995
TOLUENE-D8		100.0	Oct 14, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 17, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 17, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 17, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-1D
Sample Name: CIR-SPMW-1D
Date Sampled: October 10, 1995
Lab Sample ID: 2396923-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 17, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 17, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 17, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 17, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 17, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 17, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 17, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 17, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 17, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		86.0	Oct 17, 1995
2-FLUOROBIPHENYL		82.0	Oct 17, 1995
2-FLUOROPHENOL		49.0	Oct 17, 1995
NITROBENZENE-D5		78.0	Oct 17, 1995
PHENOL-D6		34.0	Oct 17, 1995
TERPHENYL-D14		82.0	Oct 17, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-4-1
Sample Name: CIR-SPMW-4-1
Date Sampled: October 10, 1995
Lab Sample ID: 2396924-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result		MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.		1.	5	UG/L	Oct 14, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 14, 1995
1,1,2-TRICHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 14, 1995
1,1-DICHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 14, 1995
1,1-DICHLOROETHENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
1,2-DICHLOROETHANE	1	< 2.		2.	5	UG/L	Oct 14, 1995
1,2-DICHLOROPROPANE	1	< 1.		1.	5	UG/L	Oct 14, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.		2.	10	UG/L	Oct 14, 1995
ACETONE	1	14.	J	6.	20	UG/L	Oct 14, 1995
BENZENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
BROMODICHLOROMETHANE	1	< 1.		1.	5	UG/L	Oct 14, 1995
BROMOFORM	1	< 1.		1.	5	UG/L	Oct 14, 1995
BROMOMETHANE	1	< 3.		3.	5	UG/L	Oct 14, 1995
CARBON TETRACHLORIDE	1	< 1.		1.	5	UG/L	Oct 14, 1995
CHLOROBENZENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
CHLOROETHANE	1	< 3.		3.	5	UG/L	Oct 14, 1995
CHLOROFORM	1	< 1.		1.	5	UG/L	Oct 14, 1995
CHLOROMETHANE	1	< 3.		3.	5	UG/L	Oct 14, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.		2.	5	UG/L	Oct 14, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
DIBROMOCHLOROMETHANE	1	< 2.		2.	5	UG/L	Oct 14, 1995
ETHYLBENZENE	1	< 2.		2.	5	UG/L	Oct 14, 1995
METHYLENE CHLORIDE	1	< 2.		2.	5	UG/L	Oct 14, 1995
TETRACHLOROETHENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
TOLUENE	1	< 2.		2.	5	UG/L	Oct 14, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.		2.	5	UG/L	Oct 14, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
TRICHLOROETHENE	1	< 1.		1.	5	UG/L	Oct 14, 1995
VINYL CHLORIDE	1	< 2.		2.	5	UG/L	Oct 14, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		109.0	Oct 14, 1995
BROMOFLUOROBENZENE		98.0	Oct 14, 1995
TOLUENE-D8		99.0	Oct 14, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 17, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 17, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 17, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-4-1
Sample Name: CIR-SPMW-4-1
Date Sampled: October 10, 1995
Lab Sample ID: 2396924-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 17, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 17, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 17, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 17, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 17, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 17, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 17, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 17, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 17, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		69.0	Oct 17, 1995
2-FLUOROBIPHENYL		81.0	Oct 17, 1995
2-FLUOROPHENOL		40.0	Oct 17, 1995
NITROBENZENE-D5		78.0	Oct 17, 1995
PHENOL-D6		30.0	Oct 17, 1995
TERPHENYL-D14		92.0	Oct 17, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-4-2
Sample Name: CIR-SPMW-4-2
Date Sampled: October 10, 1995
Lab Sample ID: 2396925-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 14, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 14, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 14, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 14, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 14, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 14, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 14, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 14, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 14, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 14, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 14, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 14, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 14, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 14, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 14, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 14, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		106.0	Oct 14, 1995
BROMOFLUOROBENZENE		96.0	Oct 14, 1995
TOLUENE-D8		100.0	Oct 14, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 17, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 17, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 17, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 17, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-4-2
Sample Name: CIR-SPMW-4-2
Date Sampled: October 10, 1995
Lab Sample ID: 2396925-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 17, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 17, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 17, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 17, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 17, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 17, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 17, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 17, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 17, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 17, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 17, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 17, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 17, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 17, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 17, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 17, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		74.0	Oct 17, 1995
2-FLUOROBIPHENYL		81.0	Oct 17, 1995
2-FLUOROPHENOL		44.0	Oct 17, 1995
NITROBENZENE-D5		83.0	Oct 17, 1995
PHENOL-D6		33.0	Oct 17, 1995
TERPHENYL-D14		97.0	Oct 17, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-5
Sample Name: CIR-SPMW-5
Date Sampled: October 10, 1995
Lab Sample ID: 2396926-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 16, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		103.0	Oct 16, 1995
BROMOFLUOROBENZENE		95.0	Oct 16, 1995
TOLUENE-D8		100.0	Oct 16, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 18, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-5
Sample Name: CIR-SPMW-5
Date Sampled: October 10, 1995
Lab Sample ID: 2396926-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 18, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIETHYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 18, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 18, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 18, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 18, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 18, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		67.0	Oct 18, 1995
2-FLUOROBIPHENYL		74.0	Oct 18, 1995
2-FLUOROPHENOL		36.0	Oct 18, 1995
NITROBENZENE-D5		75.0	Oct 18, 1995
PHENOL-D6		26.0	Oct 18, 1995
TERPHENYL-D14		89.0	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-6
Sample Name: CIR-SPMW-6
Date Sampled: October 10, 1995
Lab Sample ID: 2396927-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 16, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		104.0	Oct 16, 1995
BROMOFLUOROBENZENE		98.0	Oct 16, 1995
TOLUENE-D8		101.0	Oct 16, 1995

Method Number: 8270B Prep Method: 3510B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,2,4-TRICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,2-DIPHENYLHYDRAZINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,3-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
1,4-DICHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4,6-TRICHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DICHLOROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,4-DIMETHYLPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2,4-DINITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
2,4-DINITROTOLUENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
2,6-DINITROTOLUENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLORONAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-CHLOROPHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
2-NITROPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
3,3'-DICHLOROBENZIDINE	1	< 2.	2.	20	UG/L	Oct 18, 1995
3-PICOLINE	1	< 1.	1.	10	UG/L	Oct 18, 1995
4,6-DINITRO-2-METHYLPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
4-BROMOPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLORO-3-METHYLPHENOL	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-CHLOROPHENYL PHENYL ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
4-NITROPHENOL	1	< 5.	5.	25	UG/L	Oct 18, 1995
ACENAPHTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
ACENAPHTHYLENE	1	< 1.	1.	10	UG/L	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-SPMW-6
Sample Name: CIR-SPMW-6
Date Sampled: October 10, 1995
Lab Sample ID: 2396927-1 Analysis Lab: LANCAS

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZIDINE	1	< 20.	20.	50	UG/L	Oct 18, 1995
BENZO (A) ANTHRACENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BENZO (A) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (B) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (GHI) PERYLENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BENZO (K) FLUORANTHENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHOXY) METHANE	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROETHYL) ETHER	1	< 1.	1.	10	UG/L	Oct 18, 1995
BIS (2-CHLOROISOPROPYL) ETHER	1	< 2.	2.	10	UG/L	Oct 18, 1995
BIS (2-ETHYLHEXYL) PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
BUTYL BENZYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
CHRYSENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-BUTYL PHTHALATE	1	< 1.	1.	10	UG/L	Oct 18, 1995
DI-N-OCTYL PHTHALATE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIBENZ (A,H) ANTHRACENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
DIETHYL PHTHALATE	2	210.	4.	20	UG/L	Oct 18, 1995
DIMETHYL PHTHALATE	1	< 3.	3.	10	UG/L	Oct 18, 1995
FLUORANTHENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
FLUORENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROBUTADIENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
HEXACHLOROCYCLOPENTADIENE	1	< 3.	3.	10	UG/L	Oct 18, 1995
HEXACHLOROETHANE	1	< 2.	2.	10	UG/L	Oct 18, 1995
INDENO (1,2,3-CD) PYRENE	1	< 2.	2.	10	UG/L	Oct 18, 1995
ISOPHORONE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N,N-DIMETHYLACETAMIDE	1	< 1.	1.	10	UG/L	Oct 18, 1995
N-NITROSODI-N-PROPYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIMETHYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
N-NITROSODIPHENYLAMINE	1	< 2.	2.	10	UG/L	Oct 18, 1995
NAPHTHALENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
NITROBENZENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PENTACHLOROPHENOL	1	< 1.	1.	25	UG/L	Oct 18, 1995
PHENANTHRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PHENOL	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRENE	1	< 1.	1.	10	UG/L	Oct 18, 1995
PYRIDINE	1	< 2.	2.	10	UG/L	Oct 18, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
2,4,6-TRIBROMOPHENOL		67.0	Oct 18, 1995
2-FLUOROBIPHENYL		77.0	Oct 18, 1995
2-FLUOROPHENOL		53.0	Oct 18, 1995
NITROBENZENE-D5		82.0	Oct 18, 1995
PHENOL-D6		37.0	Oct 18, 1995
TERPHENYL-D14		89.0	Oct 18, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: TBLK-1
Sample Name: CIR-TBLK-1
Date Sampled: October 6, 1995
Lab Sample ID: 2398438-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		88.0	Oct 20, 1995
BROMOFLUOROBENZENE		87.0	Oct 20, 1995
TOLUENE-D8		89.0	Oct 20, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: TBLK-2
Sample Name: CIR-TBLK-2
Date Sampled: October 6, 1995
Lab Sample ID: 2398430-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 20, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 20, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 20, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 20, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 20, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 20, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 20, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 20, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		86.0	Oct 20, 1995
BROMOFLUOROBENZENE		88.0	Oct 20, 1995
TOLUENE-D8		89.0	Oct 20, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-TBLK-3
Sample Name: CIR-TBLK-3
Date Sampled: October 6, 1995
Lab Sample ID: 2396929-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,1,1-TRICHLOROETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,1,2,2-TETRACHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1,2-TRICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,1-DICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
1,2-DICHLOROETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
1,2-DICHLOROPROPANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
2-CHLOROETHYL VINYL ETHER	1	< 2.	2.	10	UG/L	Oct 16, 1995
ACETONE	1	< 6.	6.	20	UG/L	Oct 16, 1995
BENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMODICHLOROMETHANE	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
BROMOMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CARBON TETRACHLORIDE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROBENZENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CHLOROFORM	1	< 1.	1.	5	UG/L	Oct 16, 1995
CHLOROMETHANE	1	< 3.	3.	5	UG/L	Oct 16, 1995
CIS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
CIS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
DIBROMOCHLOROMETHANE	1	< 2.	2.	5	UG/L	Oct 16, 1995
ETHYLBENZENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
METHYLENE CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TETRACHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TOLUENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,2-DICHLOROETHENE	1	< 2.	2.	5	UG/L	Oct 16, 1995
TRANS-1,3-DICHLOROPROPENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
TRICHLOROETHENE	1	< 1.	1.	5	UG/L	Oct 16, 1995
VINYL CHLORIDE	1	< 2.	2.	5	UG/L	Oct 16, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		105.0	Oct 16, 1995
BROMOFLUOROBENZENE		98.0	Oct 16, 1995
TOLUENE-D8		102.0	Oct 16, 1995

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995
Sample Source: CIR-TBLK-4
Sample Name: CIR-TBLK-4
Date Sampled: October 6, 1995
Lab Sample ID: 2396936-1 Analysis Lab: LANCAS

Method Number: 8240B

Analyte/Parameter	Dilution	Result	MDL	PQL	Unit	Date Analyzed
1,4-DIOXANE	1	< 70.	70.	250	UG/L	Oct 19, 1995

Surrogates:

Analyte/Parameter	Dilution	RPR	Date Analyzed
1,2-DICHLOROETHANE-D4		96.0	Oct 19, 1995
BROMOFLUOROBENZENE		95.0	Oct 19, 1995
TOLUENE-D8		98.0	Oct 19, 1995

SUMMARY

Location: CIRCLEVILLE
Project Name: GW MONITORING-4TH QTR-1995

Analyte/Parameter	Result		Unit	MDL	PQL	Method No.	Sampled	Sample Name
ACETONE	14.	J	UG/L	6.	20	8240B	95-10-10	CIR-SPMW-4-1
DIETHYL PHTHALATE	210.		UG/L	4.	20	8270B	95-10-10	CIR-SPMW-6
1,1-DICHLOROETHENE	110.		UG/L	1.	5	8240B	95-10-11	CIR-DB-2
1,1-DICHLOROETHENE	1300.		UG/L	1.	5	8240B	95-10-11	CIR-DB-3
BUTYL BENZYL PHTHALATE	2.	J	UG/L	2.	10	8270B	95-10-11	CIR-M-1
PHENOL	2.	J	UG/L	1.	10	8270B	95-10-11	CIR-M-1
PHENOL	1.	J	UG/L	1.	10	8270B	95-10-11	CIR-M-2S
PHENOL	2.	J	UG/L	1.	10	8270B	95-10-11	CIR-M-4S
CHLOROBENZENE	1.	J	UG/L	1.	5	8240B	95-10-11	CIR-M-6D-1
TRICHLOROETHENE	1.	J	UG/L	1.	5	8240B	95-10-11	CIR-M-6D-1
PHENOL	2.	J	UG/L	1.	10	8270B	95-10-11	CIR-M-6D-1
BIS (2-ETHYLHEXYL) PHTHALATE	19.		UG/L	2.	10	8270B	95-10-11	CIR-M-6S
BUTYL BENZYL PHTHALATE	2.	J	UG/L	2.	10	8270B	95-10-11	CIR-M-6S
DI-N-OCTYL PHTHALATE	2.	J	UG/L	2.	10	8270B	95-10-11	CIR-M-6S
PHENOL	2.	J	UG/L	1.	10	8270B	95-10-11	CIR-M-7

QAQC

Method Number: 8240B Prep Method: Pre-prep:
Batch Start Date: 13OCT95
Instrument: 030460
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
CIR-EQBLK-3	10OCT95	LANCAS 2396928 1
CIR-SPMW-1	10OCT95	LANCAS 2396922 1
CIR-SPMW-1D	10OCT95	LANCAS 2396923 1
CIR-SPMW-4-1	10OCT95	LANCAS 2396924 1
CIR-SPMW-4-2	10OCT95	LANCAS 2396925 1
CIR-SPMW-5	10OCT95	LANCAS 2396926 1
CIR-SPMW-6	10OCT95	LANCAS 2396927 1
CIR-TBLK-3	06OCT95	LANCAS 2396929 1

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1,1-TRICHLOROETHANE	115	2396922-1 LANCAS
1,1,2,2-TETRACHLOROETHANE	100	2396922-1 LANCAS
1,1,2-TRICHLOROETHANE	105	2396922-1 LANCAS
1,1-DICHLOROETHANE	110	2396922-1 LANCAS
1,1-DICHLOROETHENE	115	2396922-1 LANCAS
1,2-DICHLOROETHANE	105	2396922-1 LANCAS
1,2-DICHLOROPROPANE	110	2396922-1 LANCAS
2-CHLOROETHYL VINYL ETHER	48	2396922-1 LANCAS
ACETONE	92	2396922-1 LANCAS
BENZENE	110	2396922-1 LANCAS
BROMODICHLOROMETHANE	105	2396922-1 LANCAS
BROMOFORM	100	2396922-1 LANCAS
BROMOMETHANE	80	2396922-1 LANCAS
CARBON TETRACHLORIDE	115	2396922-1 LANCAS
CHLOROBENZENE	110	2396922-1 LANCAS
CHLOROETHANE	70	2396922-1 LANCAS
CHLOROFORM	105	2396922-1 LANCAS
CHLOROMETHANE	90	2396922-1 LANCAS
CIS-1,2-DICHLOROETHENE	110	2396922-1 LANCAS
CIS-1,3-DICHLOROPROPENE	105	2396922-1 LANCAS
DIBROMOCHLOROMETHANE	100	2396922-1 LANCAS
ETHYLBENZENE	115	2396922-1 LANCAS
METHYLENE CHLORIDE	100	2396922-1 LANCAS
TETRACHLOROETHENE	120	2396922-1 LANCAS
TOLUENE	110	2396922-1 LANCAS
TRANS-1,2-DICHLOROETHENE	110	2396922-1 LANCAS
TRANS-1,3-DICHLOROPROPENE	105	2396922-1 LANCAS
TRICHLOROETHENE	110	2396922-1 LANCAS
VINYL CHLORIDE	100	2396922-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1,1-TRICHLOROETHANE	110	4	2396922-1 LANCAS
1,1,2,2-TETRACHLOROETHANE	110	10	2396922-1 LANCAS
1,1,2-TRICHLOROETHANE	110	5	2396922-1 LANCAS
1,1-DICHLOROETHANE	110	0	2396922-1 LANCAS
1,1-DICHLOROETHENE	110	4	2396922-1 LANCAS
1,2-DICHLOROETHANE	110	5	2396922-1 LANCAS
1,2-DICHLOROPROPANE	110	0	2396922-1 LANCAS
ACETONE	111	19	2396922-1 LANCAS
BENZENE	110	0	2396922-1 LANCAS
BROMODICHLOROMETHANE	105	0	2396922-1 LANCAS
BROMOFORM	110	10	2396922-1 LANCAS
BROMOMETHANE	85	6	2396922-1 LANCAS
CARBON TETRACHLORIDE	110	4	2396922-1 LANCAS
CHLOROBENZENE	110	0	2396922-1 LANCAS
CHLOROETHANE	70	0	2396922-1 LANCAS
CHLOROFORM	105	0	2396922-1 LANCAS
CHLOROMETHANE	115	24	2396922-1 LANCAS
CIS-1,2-DICHLOROETHENE	105	5	2396922-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
CIS-1,3-DICHLOROPROPENE	105	0	2396922-1	LANCAS
DIBROMOCHLOROMETHANE	105	5	2396922-1	LANCAS
ETHYLBENZENE	110	4	2396922-1	LANCAS
METHYLENE CHLORIDE	105	5	2396922-1	LANCAS
TETRACHLOROETHENE	115	4	2396922-1	LANCAS
TOLUENE	105	5	2396922-1	LANCAS
TRANS-1,2-DICHLOROETHENE	105	5	2396922-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	105	0	2396922-1	LANCAS
TRICHLOROETHENE	110	0	2396922-1	LANCAS
VINYL CHLORIDE	105	5	2396922-1	LANCAS

Comments:

8240B 2-Chloroethyl Vinyl Ether: Batch matrix spike and spike duplicate recoveries were outside of control limits. 2-Chloroethyl vinyl ether is an acid labile compound and may not be recovered in an acid preserved sample.

Method Number: 8240B Prep Method: Pre-prep:
Batch Start Date: 18OCT95
Instrument: 027000
Batch Number: 2

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID	
CIR-PW-2	10OCT95	LANCAS	2396930 1
CIR-PW-3	10OCT95	LANCAS	2396931 1
CIR-PW-4	10OCT95	LANCAS	2396932 1
CIR-PW-5	10OCT95	LANCAS	2396933 1
CIR-PW-6	10OCT95	LANCAS	2396934 1
CIR-PW-7	10OCT95	LANCAS	2396935 1
CIR-TBLK-4	06OCT95	LANCAS	2396936 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID		
1,1,1-TRICHLOROETHANE	111	LCS	-1	LANCAS
1,1,2,2-TETRACHLOROETHANE	81	LCS	-1	LANCAS
1,1,2-TRICHLOROETHANE	94	LCS	-1	LANCAS
1,1-DICHLOROETHANE	105	LCS	-1	LANCAS
1,1-DICHLOROETHENE	100	LCS	-1	LANCAS
1,2-DICHLOROETHANE	102	LCS	-1	LANCAS
1,2-DICHLOROPROPANE	100	LCS	-1	LANCAS
1,4-DIOXANE	73	LCS	-1	LANCAS
2-CHLOROETHYL VINYL ETHER	80	LCS	-1	LANCAS
ACROLEIN	80	LCS	-1	LANCAS
ACRYLONITRILE	76	LCS	-1	LANCAS
BENZENE	102	LCS	-1	LANCAS
BROMODICHLOROMETHANE	104	LCS	-1	LANCAS
BROMOFORM	91	LCS	-1	LANCAS
BROMOMETHANE	45	LCS	-1	LANCAS
CARBON TETRACHLORIDE	116	LCS	-1	LANCAS
CHLOROBENZENE	100	LCS	-1	LANCAS
CHLOROETHANE	109	LCS	-1	LANCAS
CHLOROFORM	99	LCS	-1	LANCAS
CHLOROMETHANE	96	LCS	-1	LANCAS
CIS-1,2-DICHLOROETHENE	99	LCS	-1	LANCAS
CIS-1,3-DICHLOROPROPENE	96	LCS	-1	LANCAS
DIBROMOCHLOROMETHANE	97	LCS	-1	LANCAS
ETHYLBENZENE	100	LCS	-1	LANCAS
METHYLENE CHLORIDE	98	LCS	-1	LANCAS
TETRACHLOROETHENE	108	LCS	-1	LANCAS
TOLUENE	101	LCS	-1	LANCAS
TRANS-1,2-DICHLOROETHENE	102	LCS	-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	92	LCS	-1	LANCAS
TRICHLOROETHENE	102	LCS	-1	LANCAS
TRICHLOROFLUOROMETHANE	112	LCS	-1	LANCAS

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
VINYL CHLORIDE	96	LCS -1 LANCAS
XYLENE (TOTAL)	101	LCS -1 LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1,1-TRICHLOROETHANE	106	5	LCSD -1 LANCAS
1,1,2,2-TETRACHLOROETHANE	90	11	LCSD -1 LANCAS
1,1,2-TRICHLOROETHANE	97	3	LCSD -1 LANCAS
1,1-DICHLOROETHANE	101	4	LCSD -1 LANCAS
1,1-DICHLOROETHENE	98	2	LCSD -1 LANCAS
1,2-DICHLOROETHANE	100	2	LCSD -1 LANCAS
1,2-DICHLOROPROPANE	97	3	LCSD -1 LANCAS
1,4-DIOXANE	94	25	LCSD -1 LANCAS
2-CHLOROETHYL VINYL ETHER	90	12	LCSD -1 LANCAS
ACROLEIN	90	12	LCSD -1 LANCAS
ACRYLONITRILE	93	20	LCSD -1 LANCAS
BENZENE	98	4	LCSD -1 LANCAS
BROMODICHLOROMETHANE	101	3	LCSD -1 LANCAS
BROMOFORM	97	6	LCSD -1 LANCAS
BROMOMETHANE	51	13	LCSD -1 LANCAS
CARBON TETRACHLORIDE	109	6	LCSD -1 LANCAS
CHLOROBENZENE	97	3	LCSD -1 LANCAS
CHLOROETHANE	81	29	LCSD -1 LANCAS
CHLOROFORM	96	3	LCSD -1 LANCAS
CHLOROMETHANE	95	1	LCSD -1 LANCAS
CIS-1,2-DICHLOROETHENE	89	11	LCSD -1 LANCAS
CIS-1,3-DICHLOROPROPENE	94	2	LCSD -1 LANCAS
DIBROMOCHLOROMETHANE	99	2	LCSD -1 LANCAS
ETHYLBENZENE	97	3	LCSD -1 LANCAS
METHYLENE CHLORIDE	97	1	LCSD -1 LANCAS
TETRACHLOROETHENE	100	8	LCSD -1 LANCAS
TOLUENE	95	6	LCSD -1 LANCAS
TRANS-1,2-DICHLOROETHENE	97	5	LCSD -1 LANCAS
TRANS-1,3-DICHLOROPROPENE	94	2	LCSD -1 LANCAS
TRICHLOROETHENE	99	3	LCSD -1 LANCAS
TRICHLOROFLUOROMETHANE	109	3	LCSD -1 LANCAS
VINYL CHLORIDE	96	0	LCSD -1 LANCAS
XYLENE (TOTAL)	97	4	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1,1-TRICHLOROETHANE	110	2396931-1 LANCAS
1,1,2,2-TETRACHLOROETHANE	80	2396931-1 LANCAS
1,1,2-TRICHLOROETHANE	90	2396931-1 LANCAS
1,1-DICHLOROETHANE	105	2396931-1 LANCAS
1,1-DICHLOROETHENE	100	2396931-1 LANCAS
1,2-DICHLOROETHANE	105	2396931-1 LANCAS
1,2-DICHLOROPROPANE	100	2396931-1 LANCAS
1,4-DIOXANE	72	2396931-1 LANCAS
2-CHLOROETHYL VINYL ETHER	30	2396931-1 LANCAS
ACROLEIN	73	2396931-1 LANCAS
ACRYLONITRILE	80	2396931-1 LANCAS
BENZENE	100	2396931-1 LANCAS
BROMODICHLOROMETHANE	100	2396931-1 LANCAS
BROMOFORM	90	2396931-1 LANCAS
BROMOMETHANE	50	2396931-1 LANCAS
CARBON TETRACHLORIDE	110	2396931-1 LANCAS
CHLOROBENZENE	95	2396931-1 LANCAS
CHLOROETHANE	100	2396931-1 LANCAS
CHLOROFORM	105	2396931-1 LANCAS
CHLOROMETHANE	90	2396931-1 LANCAS
CIS-1,2-DICHLOROETHENE	95	2396931-1 LANCAS
CIS-1,3-DICHLOROPROPENE	90	2396931-1 LANCAS
DIBROMOCHLOROMETHANE	95	2396931-1 LANCAS
ETHYLBENZENE	100	2396931-1 LANCAS
METHYLENE CHLORIDE	100	2396931-1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID	
TETRACHLOROETHENE	95	2396931-1	LANCAS
TOLUENE	95	2396931-1	LANCAS
TRANS-1,2-DICHLOROETHENE	100	2396931-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	92	2396931-1	LANCAS
TRICHLOROETHENE	95	2396931-1	LANCAS
TRICHLOROFLUOROMETHANE	120	2396931-1	LANCAS
VINYL CHLORIDE	90	2396931-1	LANCAS
XYLENE (TOTAL)	98	2396931-1	LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
1,1,1-TRICHLOROETHANE	105	5	2396931-1	LANCAS
1,1,2,2-TETRACHLOROETHANE	95	17	2396931-1	LANCAS
1,1,2-TRICHLOROETHANE	95	5	2396931-1	LANCAS
1,1-DICHLOROETHANE	100	5	2396931-1	LANCAS
1,1-DICHLOROETHENE	95	5	2396931-1	LANCAS
1,2-DICHLOROETHANE	100	5	2396931-1	LANCAS
1,2-DICHLOROPROPANE	95	5	2396931-1	LANCAS
1,4-DIOXANE	90	22	2396931-1	LANCAS
ACROLEIN	80	9	2396931-1	LANCAS
ACRYLONITRILE	87	8	2396931-1	LANCAS
BENZENE	95	5	2396931-1	LANCAS
BROMODICHLOROMETHANE	100	0	2396931-1	LANCAS
BROMOFORM	100	11	2396931-1	LANCAS
BROMOMETHANE	45	11	2396931-1	LANCAS
CARBON TETRACHLORIDE	110	0	2396931-1	LANCAS
CHLOROBENZENE	95	0	2396931-1	LANCAS
CHLOROETHANE	90	11	2396931-1	LANCAS
CHLOROFORM	95	10	2396931-1	LANCAS
CHLOROMETHANE	85	6	2396931-1	LANCAS
CIS-1,2-DICHLOROETHENE	90	5	2396931-1	LANCAS
CIS-1,3-DICHLOROPROPENE	95	5	2396931-1	LANCAS
DIBROMOCHLOROMETHANE	100	5	2396931-1	LANCAS
ETHYLBENZENE	95	5	2396931-1	LANCAS
METHYLENE CHLORIDE	95	5	2396931-1	LANCAS
TETRACHLOROETHENE	100	5	2396931-1	LANCAS
TOLUENE	95	0	2396931-1	LANCAS
TRANS-1,2-DICHLOROETHENE	95	5	2396931-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	92	0	2396931-1	LANCAS
TRICHLOROETHENE	95	0	2396931-1	LANCAS
TRICHLOROFLUOROMETHANE	110	9	2396931-1	LANCAS
VINYL CHLORIDE	90	0	2396931-1	LANCAS
XYLENE (TOTAL)	98	0	2396931-1	LANCAS

Method Number: 8240B Prep Method: Pre-prep:
Batch Start Date: 19OCT95
Instrument: 030470
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID	
CIR-M-1	11OCT95	LANCAS	2398431 1
CIR-M-2D	11OCT95	LANCAS	2398433 1
CIR-M-2S	11OCT95	LANCAS	2398432 1
CIR-M-3	11OCT95	LANCAS	2398434 1
CIR-M-4D	11OCT95	LANCAS	2398436 1
CIR-M-4S	11OCT95	LANCAS	2398435 1
CIR-M-6D-1	11OCT95	LANCAS	2398424 1
CIR-M-6D-2	11OCT95	LANCAS	2398425 1
CIR-M-6S	11OCT95	LANCAS	2398426 1
CIR-M-7	11OCT95	LANCAS	2398421 1
CIR-MW-1	11OCT95	LANCAS	2398422 1
CIR-MW-10	11OCT95	LANCAS	2398428 1
CIR-MW-4	11OCT95	LANCAS	2398423 1
CIR-MW-6	11OCT95	LANCAS	2398429 1
CIR-MW-9	11OCT95	LANCAS	2398427 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID	
CIR-TBLK-1	06OCT95	LANCAS	2398438 1
CIR-TBLK-2	06OCT95	LANCAS	2398430 1

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID	
1,1,1-TRICHLOROETHANE	105	2398421-1	LANCAS
1,1,2,2-TETRACHLOROETHANE	105	2398421-1	LANCAS
1,1,2-TRICHLOROETHANE	105	2398421-1	LANCAS
1,1-DICHLOROETHANE	100	2398421-1	LANCAS
1,1-DICHLOROETHENE	105	2398421-1	LANCAS
1,2-DICHLOROETHANE	100	2398421-1	LANCAS
1,2-DICHLOROPROPANE	105	2398421-1	LANCAS
1,4-DIOXANE	111	2398421-1	LANCAS
ACETONE	86	2398421-1	LANCAS
BENZENE	100	2398421-1	LANCAS
BROMODICHLOROMETHANE	100	2398421-1	LANCAS
BROMOFORM	100	2398421-1	LANCAS
BROMOMETHANE	100	2398421-1	LANCAS
CARBON TETRACHLORIDE	100	2398421-1	LANCAS
CHLOROBENZENE	100	2398421-1	LANCAS
CHLOROETHANE	100	2398421-1	LANCAS
CHLOROFORM	95	2398421-1	LANCAS
CHLOROMETHANE	100	2398421-1	LANCAS
CIS-1,2-DICHLOROETHENE	105	2398421-1	LANCAS
CIS-1,3-DICHLOROPROPENE	100	2398421-1	LANCAS
DIBROMOCHLOROMETHANE	100	2398421-1	LANCAS
ETHYLBENZENE	105	2398421-1	LANCAS
METHYLENE CHLORIDE	100	2398421-1	LANCAS
TETRACHLOROETHENE	95	2398421-1	LANCAS
TOLUENE	100	2398421-1	LANCAS
TRANS-1,2-DICHLOROETHENE	105	2398421-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	105	2398421-1	LANCAS
TRICHLOROETHENE	100	2398421-1	LANCAS
VINYL CHLORIDE	100	2398421-1	LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
1,1,1-TRICHLOROETHANE	110	5	2398421-1	LANCAS
1,1,2,2-TETRACHLOROETHANE	105	0	2398421-1	LANCAS
1,1,2-TRICHLOROETHANE	105	0	2398421-1	LANCAS
1,1-DICHLOROETHANE	105	5	2398421-1	LANCAS
1,1-DICHLOROETHENE	110	5	2398421-1	LANCAS
1,2-DICHLOROETHANE	100	0	2398421-1	LANCAS
1,2-DICHLOROPROPANE	105	0	2398421-1	LANCAS
1,4-DIOXANE	114	2	2398421-1	LANCAS
ACETONE	87	1	2398421-1	LANCAS
BENZENE	110	10	2398421-1	LANCAS
BROMODICHLOROMETHANE	110	10	2398421-1	LANCAS
BROMOFORM	100	0	2398421-1	LANCAS
BROMOMETHANE	100	0	2398421-1	LANCAS
CARBON TETRACHLORIDE	105	5	2398421-1	LANCAS
CHLOROBENZENE	105	5	2398421-1	LANCAS
CHLOROETHANE	100	0	2398421-1	LANCAS
CHLOROFORM	100	5	2398421-1	LANCAS
CHLOROMETHANE	110	10	2398421-1	LANCAS
CIS-1,2-DICHLOROETHENE	105	0	2398421-1	LANCAS
CIS-1,3-DICHLOROPROPENE	105	5	2398421-1	LANCAS
DIBROMOCHLOROMETHANE	105	5	2398421-1	LANCAS
ETHYLBENZENE	110	5	2398421-1	LANCAS
METHYLENE CHLORIDE	105	5	2398421-1	LANCAS
TETRACHLOROETHENE	100	5	2398421-1	LANCAS
TOLUENE	110	10	2398421-1	LANCAS
TRANS-1,2-DICHLOROETHENE	105	0	2398421-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	105	0	2398421-1	LANCAS
TRICHLOROETHENE	105	5	2398421-1	LANCAS
VINYL CHLORIDE	100	0	2398421-1	LANCAS

Method Number: 8240B Prep Method: Pre-prep:
Batch Start Date: 21OCT95
Instrument: 030470
Batch Number: 1

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
CIR-DB-2	11OCT95	LANCAS 2398439 1
CIR-DB-3	11OCT95	LANCAS 2398440 1
CIR-EQBLK-1	11OCT95	LANCAS 2398437 1

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,1,1-TRICHLOROETHANE	110	2398439-1 LANCAS
1,1,2,2-TETRACHLOROETHANE	105	2398439-1 LANCAS
1,1,2-TRICHLOROETHANE	105	2398439-1 LANCAS
1,1-DICHLOROETHANE	105	2398439-1 LANCAS
1,1-DICHLOROETHENE	50	2398439-1 LANCAS
1,2-DICHLOROETHANE	105	2398439-1 LANCAS
1,2-DICHLOROPROPANE	110	2398439-1 LANCAS
ACETONE	88	2398439-1 LANCAS
BENZENE	100	2398439-1 LANCAS
BROMODICHLOROMETHANE	105	2398439-1 LANCAS
BROMOFORM	100	2398439-1 LANCAS
BROMOMETHANE	100	2398439-1 LANCAS
CARBON TETRACHLORIDE	110	2398439-1 LANCAS
CHLOROBENZENE	105	2398439-1 LANCAS
CHLOROETHANE	95	2398439-1 LANCAS
CHLOROFORM	100	2398439-1 LANCAS
CHLOROMETHANE	90	2398439-1 LANCAS
CIS-1,2-DICHLOROETHENE	105	2398439-1 LANCAS
CIS-1,3-DICHLOROPROPENE	105	2398439-1 LANCAS
DIBROMOCHLOROMETHANE	105	2398439-1 LANCAS
ETHYLBENZENE	110	2398439-1 LANCAS
METHYLENE CHLORIDE	95	2398439-1 LANCAS
TETRACHLOROETHENE	100	2398439-1 LANCAS
TOLUENE	105	2398439-1 LANCAS
TRANS-1,2-DICHLOROETHENE	105	2398439-1 LANCAS
TRANS-1,3-DICHLOROPROPENE	105	2398439-1 LANCAS
TRICHLOROETHENE	100	2398439-1 LANCAS
VINYL CHLORIDE	95	2398439-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
1,1,1-TRICHLOROETHANE	110	0	2398439-1 LANCAS
1,1,2,2-TETRACHLOROETHANE	100	5	2398439-1 LANCAS
1,1,2-TRICHLOROETHANE	105	0	2398439-1 LANCAS
1,1-DICHLOROETHANE	105	0	2398439-1 LANCAS
1,1-DICHLOROETHENE	50	0	2398439-1 LANCAS
1,2-DICHLOROETHANE	105	0	2398439-1 LANCAS
1,2-DICHLOROPROPANE	110	0	2398439-1 LANCAS
ACETONE	85	3	2398439-1 LANCAS
BENZENE	105	5	2398439-1 LANCAS
BROMODICHLOROMETHANE	110	5	2398439-1 LANCAS
BROMOFORM	100	0	2398439-1 LANCAS
BROMOMETHANE	100	0	2398439-1 LANCAS
CARBON TETRACHLORIDE	105	5	2398439-1 LANCAS
CHLOROBENZENE	100	5	2398439-1 LANCAS
CHLOROETHANE	100	5	2398439-1 LANCAS
CHLOROFORM	100	0	2398439-1 LANCAS
CHLOROMETHANE	80	12	2398439-1 LANCAS
CIS-1,2-DICHLOROETHENE	105	0	2398439-1 LANCAS
CIS-1,3-DICHLOROPROPENE	100	5	2398439-1 LANCAS
DIBROMOCHLOROMETHANE	105	0	2398439-1 LANCAS
ETHYLBENZENE	105	5	2398439-1 LANCAS
METHYLENE CHLORIDE	100	5	2398439-1 LANCAS
TETRACHLOROETHENE	100	0	2398439-1 LANCAS
TOLUENE	110	5	2398439-1 LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
TRANS-1,2-DICHLOROETHENE	105	0	2398439-1	LANCAS
TRANS-1,3-DICHLOROPROPENE	105	0	2398439-1	LANCAS
TRICHLOROETHENE	100	0	2398439-1	LANCAS
VINYL CHLORIDE	100	4	2398439-1	LANCAS

Method Number: 8270B Prep Method: 3510B Pre-prep:
Batch Start Date: 12OCT95
Instrument: 038410
Batch Number: 2

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID		
CIR-EQBLK-3	10OCT95	LANCAS	2396928	1
CIR-SPMW-1	10OCT95	LANCAS	2396922	1
CIR-SPMW-1D	10OCT95	LANCAS	2396923	1
CIR-SPMW-4-1	10OCT95	LANCAS	2396924	1
CIR-SPMW-4-2	10OCT95	LANCAS	2396925	1
CIR-SPMW-5	10OCT95	LANCAS	2396926	1
CIR-SPMW-6	10OCT95	LANCAS	2396927	1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID		
1,2,4-TRICHLOROBENZENE	77	LCS	-1	LANCAS
1,2-DICHLOROBENZENE	78	LCS	-1	LANCAS
1,2-DIPHENYLHYDRAZINE	81	LCS	-1	LANCAS
1,3-DICHLOROBENZENE	72	LCS	-1	LANCAS
1,4-DICHLOROBENZENE	73	LCS	-1	LANCAS
2,4,6-TRICHLOROPHENOL	89	LCS	-1	LANCAS
2,4-DICHLOROPHENOL	76	LCS	-1	LANCAS
2,4-DIMETHYLPHENOL	56	LCS	-1	LANCAS
2,4-DINITROPHENOL	66	LCS	-1	LANCAS
2,4-DINITROTOLUENE	81	LCS	-1	LANCAS
2,6-DINITROTOLUENE	84	LCS	-1	LANCAS
2-CHLORONAPHTHALENE	82	LCS	-1	LANCAS
2-CHLOROPHENOL	74	LCS	-1	LANCAS
2-NITROPHENOL	85	LCS	-1	LANCAS
3,3'-DICHLOROBENZIDINE	86	LCS	-1	LANCAS
3-PICOLINE	74	LCS	-1	LANCAS
4,6-DINITRO-2-METHYLPHENOL	70	LCS	-1	LANCAS
4-BROMOPHENYL PHENYL ETHER	89	LCS	-1	LANCAS
4-CHLORO-3-METHYLPHENOL	77	LCS	-1	LANCAS
4-CHLOROPHENYL PHENYL ETHER	83	LCS	-1	LANCAS
4-NITROPHENOL	37	LCS	-1	LANCAS
ACENAPHTHENE	77	LCS	-1	LANCAS
ACENAPHTHYLENE	80	LCS	-1	LANCAS
ANTHRACENE	78	LCS	-1	LANCAS
BENZIDINE	63	LCS	-1	LANCAS
BENZO (A) ANTHRACENE	80	LCS	-1	LANCAS
BENZO (A) PYRENE	77	LCS	-1	LANCAS
BENZO (B) FLUORANTHENE	84	LCS	-1	LANCAS
BENZO (GHI) PERYLENE	79	LCS	-1	LANCAS
BENZO (K) FLUORANTHENE	83	LCS	-1	LANCAS
BIS (2-CHLOROETHOXY) METHANE	78	LCS	-1	LANCAS
BIS (2-CHLOROETHYL) ETHER	80	LCS	-1	LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	87	LCS	-1	LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	78	LCS	-1	LANCAS
BUTYL BENZYL PHTHALATE	77	LCS	-1	LANCAS
CHRYSENE	80	LCS	-1	LANCAS
DI-N-BUTYL PHTHALATE	93	LCS	-1	LANCAS
DI-N-OCTYL PHTHALATE	86	LCS	-1	LANCAS
DIBENZ (A,H) ANTHRACENE	83	LCS	-1	LANCAS
DIETHYL PHTHALATE	81	LCS	-1	LANCAS
DIMETHYL PHTHALATE	72	LCS	-1	LANCAS
FLUORANTHENE	90	LCS	-1	LANCAS
FLUORENE	78	LCS	-1	LANCAS
HEXACHLOROBENZENE	90	LCS	-1	LANCAS

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID		
HEXACHLOROBUTADIENE	63	LCS	-1	LANCAS
HEXACHLOROCYCLOPENTADIENE	52	LCS	-1	LANCAS
HEXACHLOROETHANE	63	LCS	-1	LANCAS
INDENO (1,2,3-CD) PYRENE	80	LCS	-1	LANCAS
ISOPHORONE	78	LCS	-1	LANCAS
N,N-DIMETHYLACETAMIDE	18	LCS	-1	LANCAS
N-NITROSODI-N-PROPYLAMINE	86	LCS	-1	LANCAS
N-NITROSODIMETHYLAMINE	60	LCS	-1	LANCAS
N-NITROSODIPHENYLAMINE	85	LCS	-1	LANCAS
NAPHTHALENE	74	LCS	-1	LANCAS
NITROBENZENE	85	LCS	-1	LANCAS
PENTACHLOROPHENOL	76	LCS	-1	LANCAS
PHENANTHRENE	81	LCS	-1	LANCAS
PHENOL	39	LCS	-1	LANCAS
PYRENE	72	LCS	-1	LANCAS
PYRIDINE	60	LCS	-1	LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID		
1,2,4-TRICHLOROBENZENE	83	8	LCSD	-1	LANCAS
1,2-DICHLOROBENZENE	84	8	LCSD	-1	LANCAS
1,2-DIPHENYLHYDRAZINE	86	6	LCSD	-1	LANCAS
1,3-DICHLOROBENZENE	79	9	LCSD	-1	LANCAS
1,4-DICHLOROBENZENE	80	9	LCSD	-1	LANCAS
2,4,6-TRICHLOROPHENOL	94	5	LCSD	-1	LANCAS
2,4-DICHLOROPHENOL	84	10	LCSD	-1	LANCAS
2,4-DIMETHYLPHENOL	62	9	LCSD	-1	LANCAS
2,4-DINITROPHENOL	72	9	LCSD	-1	LANCAS
2,4-DINITROTOLUENE	87	7	LCSD	-1	LANCAS
2,6-DINITROTOLUENE	88	4	LCSD	-1	LANCAS
2-CHLORONAPHTHALENE	87	6	LCSD	-1	LANCAS
2-CHLOROPHENOL	79	7	LCSD	-1	LANCAS
2-NITROPHENOL	92	9	LCSD	-1	LANCAS
3,3'-DICHLOROBENZIDINE	98	14	LCSD	-1	LANCAS
3-PICOLINE	80	8	LCSD	-1	LANCAS
4,6-DINITRO-2-METHYLPHENOL	75	7	LCSD	-1	LANCAS
4-BROMOPHENYL PHENYL ETHER	97	9	LCSD	-1	LANCAS
4-CHLORO-3-METHYLPHENOL	87	12	LCSD	-1	LANCAS
4-CHLOROPHENYL PHENYL ETHER	90	9	LCSD	-1	LANCAS
4-NITROPHENOL	39	6	LCSD	-1	LANCAS
ACENAPHTHENE	82	6	LCSD	-1	LANCAS
ACENAPHTHYLENE	85	6	LCSD	-1	LANCAS
ANTHRACENE	84	7	LCSD	-1	LANCAS
BENZIDINE	85	30	LCSD	-1	LANCAS
BENZO (A) ANTHRACENE	89	11	LCSD	-1	LANCAS
BENZO (A) PYRENE	82	7	LCSD	-1	LANCAS
BENZO (B) FLUORANTHENE	90	6	LCSD	-1	LANCAS
BENZO (GHI) PERYLENE	87	10	LCSD	-1	LANCAS
BENZO (K) FLUORANTHENE	87	5	LCSD	-1	LANCAS
BIS (2-CHLOROETHOXY) METHANE	83	6	LCSD	-1	LANCAS
BIS (2-CHLOROETHYL) ETHER	85	6	LCSD	-1	LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	94	8	LCSD	-1	LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	89	13	LCSD	-1	LANCAS
BUTYL BENZYL PHTHALATE	83	8	LCSD	-1	LANCAS
CHRYSENE	89	11	LCSD	-1	LANCAS
DI-N-BUTYL PHTHALATE	98	5	LCSD	-1	LANCAS
DI-N-OCTYL PHTHALATE	84	2	LCSD	-1	LANCAS
DIBENZ (A,H) ANTHRACENE	91	9	LCSD	-1	LANCAS
DIETHYL PHTHALATE	86	5	LCSD	-1	LANCAS
DIMETHYL PHTHALATE	76	5	LCSD	-1	LANCAS
FLUORANTHENE	92	2	LCSD	-1	LANCAS
FLUORENE	84	7	LCSD	-1	LANCAS
HEXACHLOROBENZENE	99	9	LCSD	-1	LANCAS
HEXACHLOROBUTADIENE	68	9	LCSD	-1	LANCAS
HEXACHLOROCYCLOPENTADIENE	53	3	LCSD	-1	LANCAS
HEXACHLOROETHANE	66	5	LCSD	-1	LANCAS
INDENO (1,2,3-CD) PYRENE	88	10	LCSD	-1	LANCAS
ISOPHORONE	84	8	LCSD	-1	LANCAS
N,N-DIMETHYLACETAMIDE	19	8	LCSD	-1	LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
N-NITROSODI-N-PROPYLAMINE	95	10	LCSD -1 LANCAS
N-NITROSODIMETHYLAMINE	59	1	LCSD -1 LANCAS
N-NITROSODIPHENYLAMINE	91	6	LCSD -1 LANCAS
NAPHTHALENE	81	8	LCSD -1 LANCAS
NITROBENZENE	87	2	LCSD -1 LANCAS
PENTACHLOROPHENOL	84	11	LCSD -1 LANCAS
PHENANTHRENE	86	6	LCSD -1 LANCAS
PHENOL	42	7	LCSD -1 LANCAS
PYRENE	90	23	LCSD -1 LANCAS
PYRIDINE	61	0	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,2,4-TRICHLOROBENZENE	81	2396922-1 LANCAS
1,2-DICHLOROBENZENE	77	2396922-1 LANCAS
1,2-DIPHENYLHYDRAZINE	84	2396922-1 LANCAS
1,3-DICHLOROBENZENE	72	2396922-1 LANCAS
1,4-DICHLOROBENZENE	74	2396922-1 LANCAS
2,4,6-TRICHLOROPHENOL	84	2396922-1 LANCAS
2,4-DICHLOROPHENOL	70	2396922-1 LANCAS
2,4-DIMETHYLPHENOL	44	2396922-1 LANCAS
2,4-DINITROPHENOL	62	2396922-1 LANCAS
2,4-DINITROTOLUENE	80	2396922-1 LANCAS
2,6-DINITROTOLUENE	84	2396922-1 LANCAS
2-CHLORONAPHTHALENE	83	2396922-1 LANCAS
2-CHLOROPHENOL	64	2396922-1 LANCAS
2-NITROPHENOL	92	2396922-1 LANCAS
3,3'-DICHLOROBENZIDINE	87	2396922-1 LANCAS
3-PICOLINE	75	2396922-1 LANCAS
4,6-DINITRO-2-METHYLPHENOL	73	2396922-1 LANCAS
4-BROMOPHENYL PHENYL ETHER	96	2396922-1 LANCAS
4-CHLORO-3-METHYLPHENOL	70	2396922-1 LANCAS
4-CHLOROPHENYL PHENYL ETHER	85	2396922-1 LANCAS
4-NITROPHENOL	39	2396922-1 LANCAS
ACENAPHTHENE	78	2396922-1 LANCAS
ACENAPHTHYLENE	80	2396922-1 LANCAS
ANTHRACENE	81	2396922-1 LANCAS
BENZIDINE	59	2396922-1 LANCAS
BENZO (A) ANTHRACENE	81	2396922-1 LANCAS
BENZO (A) PYRENE	80	2396922-1 LANCAS
BENZO (B) FLUORANTHENE	93	2396922-1 LANCAS
BENZO (GHI) PERYLENE	82	2396922-1 LANCAS
BENZO (K) FLUORANTHENE	85	2396922-1 LANCAS
BIS (2-CHLOROETHOXY) METHANE	82	2396922-1 LANCAS
BIS (2-CHLOROETHYL) ETHER	80	2396922-1 LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	87	2396922-1 LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	83	2396922-1 LANCAS
BUTYL BENZYL PHTHALATE	82	2396922-1 LANCAS
CHRYSENE	81	2396922-1 LANCAS
DI-N-BUTYL PHTHALATE	98	2396922-1 LANCAS
DI-N-OCTYL PHTHALATE	94	2396922-1 LANCAS
DIBENZ (A,H) ANTHRACENE	87	2396922-1 LANCAS
DIETHYL PHTHALATE	80	2396922-1 LANCAS
DIMETHYL PHTHALATE	71	2396922-1 LANCAS
FLUORANTHENE	101	2396922-1 LANCAS
FLUORENE	78	2396922-1 LANCAS
HEXACHLOROBENZENE	98	2396922-1 LANCAS
HEXACHLOROBUTADIENE	69	2396922-1 LANCAS
HEXACHLOROCYCLOPENTADIENE	58	2396922-1 LANCAS
HEXACHLOROETHANE	62	2396922-1 LANCAS
INDENO (1,2,3-CD) PYRENE	85	2396922-1 LANCAS
ISOPHORONE	82	2396922-1 LANCAS
N,N-DIMETHYLACETAMIDE	20	2396922-1 LANCAS
N-NITROSODI-N-PROPYLAMINE	87	2396922-1 LANCAS
N-NITROSODIMETHYLAMINE	59	2396922-1 LANCAS
N-NITROSODIPHENYLAMINE	90	2396922-1 LANCAS
NAPHTHALENE	77	2396922-1 LANCAS
NITROBENZENE	85	2396922-1 LANCAS
PENTACHLOROPHENOL	89	2396922-1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID	
PHENANTHRENE	83	2396922-1	LANCAS
PHENOL	34	2396922-1	LANCAS
PYRENE	72	2396922-1	LANCAS
PYRIDINE	60	2396922-1	LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
1,2,4-TRICHLOROBENZENE	83	3	2396922-1	LANCAS
1,2-DICHLOROBENZENE	82	5	2396922-1	LANCAS
1,2-DIPHENYLHYDRAZINE	84	0	2396922-1	LANCAS
1,3-DICHLOROBENZENE	79	9	2396922-1	LANCAS
1,4-DICHLOROBENZENE	79	6	2396922-1	LANCAS
2,4,6-TRICHLOROPHENOL	88	4	2396922-1	LANCAS
2,4-DICHLOROPHENOL	73	4	2396922-1	LANCAS
2,4-DIMETHYLPHENOL	48	8	2396922-1	LANCAS
2,4-DINITROPHENOL	72	15	2396922-1	LANCAS
2,4-DINITROTOLUENE	88	10	2396922-1	LANCAS
2,6-DINITROTOLUENE	91	9	2396922-1	LANCAS
2-CHLORONAPHTHALENE	87	4	2396922-1	LANCAS
2-CHLOROPHENOL	67	6	2396922-1	LANCAS
2-NITROPHENOL	91	0	2396922-1	LANCAS
3,3'-DICHLOROBENZIDINE	78	11	2396922-1	LANCAS
3-PICOLINE	75	0	2396922-1	LANCAS
4,6-DINITRO-2-METHYLPHENOL	75	3	2396922-1	LANCAS
4-BROMOPHENYL PHENYL ETHER	98	2	2396922-1	LANCAS
4-CHLORO-3-METHYLPHENOL	75	7	2396922-1	LANCAS
4-CHLOROPHENYL PHENYL ETHER	92	8	2396922-1	LANCAS
4-NITROPHENOL	39	1	2396922-1	LANCAS
ACENAPHTHENE	80	3	2396922-1	LANCAS
ACENAPHTHYLENE	86	6	2396922-1	LANCAS
ANTHRACENE	85	4	2396922-1	LANCAS
BENZIDINE	68	14	2396922-1	LANCAS
BENZO (A) ANTHRACENE	88	7	2396922-1	LANCAS
BENZO (A) PYRENE	83	3	2396922-1	LANCAS
BENZO (B) FLUORANTHENE	93	1	2396922-1	LANCAS
BENZO (GHI) PERYLENE	86	5	2396922-1	LANCAS
BENZO (K) FLUORANTHENE	90	6	2396922-1	LANCAS
BIS (2-CHLOROETHOXY) METHANE	83	2	2396922-1	LANCAS
BIS (2-CHLOROETHYL) ETHER	83	4	2396922-1	LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	91	4	2396922-1	LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	88	6	2396922-1	LANCAS
BUTYL BENZYL PHTHALATE	83	1	2396922-1	LANCAS
CHRYSENE	87	7	2396922-1	LANCAS
DI-N-BUTYL PHTHALATE	96	2	2396922-1	LANCAS*
DI-N-OCTYL PHTHALATE	91	3	2396922-1	LANCAS
DIBENZ (A,H) ANTHRACENE	92	5	2396922-1	LANCAS
DIETHYL PHTHALATE	88	10	2396922-1	LANCAS
DIMETHYL PHTHALATE	76	7	2396922-1	LANCAS
FLUORANTHENE	92	9	2396922-1	LANCAS
FLUORENE	84	8	2396922-1	LANCAS
HEXACHLOROBENZENE	103	5	2396922-1	LANCAS
HEXACHLOROBUTADIENE	70	1	2396922-1	LANCAS
HEXACHLOROCYCLOPENTADIENE	57	1	2396922-1	LANCAS
HEXACHLOROETHANE	65	4	2396922-1	LANCAS
INDENO (1,2,3-CD) PYRENE	89	5	2396922-1	LANCAS
ISOPHORONE	84	2	2396922-1	LANCAS
N,N-DIMETHYLACETAMIDE	19	4	2396922-1	LANCAS
N-NITROSODI-N-PROPYLAMINE	92	6	2396922-1	LANCAS
N-NITROSODIMETHYLAMINE	59	1	2396922-1	LANCAS
N-NITROSODIPHENYLAMINE	90	0	2396922-1	LANCAS
NAPHTHALENE	81	5	2396922-1	LANCAS
NITROBENZENE	85	0	2396922-1	LANCAS
PENTACHLOROPHENOL	93	5	2396922-1	LANCAS
PHENANTHRENE	86	4	2396922-1	LANCAS
PHENOL	35	4	2396922-1	LANCAS
PYRENE	87	18	2396922-1	LANCAS
PYRIDINE	59	3	2396922-1	LANCAS

Method Number: 8270B Prep Method: 3510B Pre-prep:
Batch Start Date: 16OCT95
Instrument: 038410
Batch Number: 2

The following field samples are included in this batch:

Sample Name	Date Sampled	Lab ID
CIR-EQBLK-1	11OCT95	LANCAS 2398437 1
CIR-M-1	11OCT95	LANCAS 2398431 1
CIR-M-2D	11OCT95	LANCAS 2398433 1
CIR-M-2S	11OCT95	LANCAS 2398432 1
CIR-M-3	11OCT95	LANCAS 2398434 1
CIR-M-4D	11OCT95	LANCAS 2398436 1
CIR-M-4S	11OCT95	LANCAS 2398435 1
CIR-M-6D-1	11OCT95	LANCAS 2398424 1
CIR-M-6D-2	11OCT95	LANCAS 2398425 1
CIR-M-6S	11OCT95	LANCAS 2398426 1
CIR-M-7	11OCT95	LANCAS 2398421 1
CIR-MW-1	11OCT95	LANCAS 2398422 1
CIR-MW-10	11OCT95	LANCAS 2398428 1
CIR-MW-4	11OCT95	LANCAS 2398423 1
CIR-MW-6	11OCT95	LANCAS 2398429 1
CIR-MW-9	11OCT95	LANCAS 2398427 1

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,2,4-TRICHLOROBENZENE	81	LCS -1 LANCAS
1,2-DICHLOROBENZENE	85	LCS -1 LANCAS
1,2-DIPHENYLHYDRAZINE	91	LCS -1 LANCAS
1,3-DICHLOROBENZENE	78	LCS -1 LANCAS
1,4-DICHLOROBENZENE	80	LCS -1 LANCAS
2,4,6-TRICHLOROPHENOL	90	LCS -1 LANCAS
2,4-DICHLOROPHENOL	82	LCS -1 LANCAS
2,4-DIMETHYLPHENOL	64	LCS -1 LANCAS
2,4-DINITROPHENOL	67	LCS -1 LANCAS
2,4-DINITROTOLUENE	87	LCS -1 LANCAS
2,6-DINITROTOLUENE	90	LCS -1 LANCAS
2-CHLORONAPHTHALENE	91	LCS -1 LANCAS
2-CHLOROPHENOL	83	LCS -1 LANCAS
2-NITROPHENOL	90	LCS -1 LANCAS
3,3'-DICHLOROBENZIDINE	70	LCS -1 LANCAS
3-PICOLINE	86	LCS -1 LANCAS
4,6-DINITRO-2-METHYLPHENOL	73	LCS -1 LANCAS
4-BROMOPHENYL PHENYL ETHER	94	LCS -1 LANCAS
4-CHLORO-3-METHYLPHENOL	84	LCS -1 LANCAS
4-CHLOROPHENYL PHENYL ETHER	90	LCS -1 LANCAS
4-NITROPHENOL	41	LCS -1 LANCAS
ACENAPHTHENE	82	LCS -1 LANCAS
ACENAPHTHYLENE	85	LCS -1 LANCAS
ANTHRACENE	83	LCS -1 LANCAS
BENZIDINE	76	LCS -1 LANCAS
BENZO (A) ANTHRACENE	86	LCS -1 LANCAS
BENZO (A) PYRENE	81	LCS -1 LANCAS
BENZO (B) FLUORANTHENE	87	LCS -1 LANCAS
BENZO (GHI) PERYLENE	90	LCS -1 LANCAS
BENZO (K) FLUORANTHENE	83	LCS -1 LANCAS
BIS (2-CHLOROETHOXY) METHANE	88	LCS -1 LANCAS
BIS (2-CHLOROETHYL) ETHER	89	LCS -1 LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	95	LCS -1 LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	97	LCS -1 LANCAS
BUTYL BENZYL PHTHALATE	87	LCS -1 LANCAS
CHRYSENE	82	LCS -1 LANCAS
DI-N-BUTYL PHTHALATE	97	LCS -1 LANCAS
DI-N-OCTYL PHTHALATE	90	LCS -1 LANCAS
DIBENZ (A,H) ANTHRACENE	89	LCS -1 LANCAS
DIETHYL PHTHALATE	81	LCS -1 LANCAS
DIMETHYL PHTHALATE	56	LCS -1 LANCAS
FLUORANTHENE	88	LCS -1 LANCAS
FLUORENE	86	LCS -1 LANCAS
HEXACHLOROBENZENE	92	LCS -1 LANCAS
HEXACHLOROBUTADIENE	69	LCS -1 LANCAS

Lab Control Spike:

Analyte/Parameter	RPR	Lab Sample ID		
HEXACHLOROCYCLOPENTADIENE	54	LCS	-1	LANCAS
HEXACHLOROETHANE	70	LCS	-1	LANCAS
INDENO (1,2,3-CD) PYRENE	88	LCS	-1	LANCAS
ISOPHORONE	88	LCS	-1	LANCAS
N,N-DIMETHYLACETAMIDE	21	LCS	-1	LANCAS
N-NITROSODI-N-PROPYLAMINE	99	LCS	-1	LANCAS
N-NITROSODIMETHYLAMINE	67	LCS	-1	LANCAS
N-NITROSODIPHENYLAMINE	93	LCS	-1	LANCAS
NAPHTHALENE	81	LCS	-1	LANCAS
NITROBENZENE	91	LCS	-1	LANCAS
PENTACHLOROPHENOL	83	LCS	-1	LANCAS
PHENANTHRENE	86	LCS	-1	LANCAS
PHENOL	45	LCS	-1	LANCAS
PYRENE	84	LCS	-1	LANCAS
PYRIDINE	64	LCS	-1	LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID		
1,2,4-TRICHLOROBENZENE	82	2	LCSD	-1	LANCAS
1,2-DICHLOROBENZENE	89	5	LCSD	-1	LANCAS
1,2-DIPHENYLHYDRAZINE	96	5	LCSD	-1	LANCAS
1,3-DICHLOROBENZENE	84	7	LCSD	-1	LANCAS
1,4-DICHLOROBENZENE	84	5	LCSD	-1	LANCAS
2,4,6-TRICHLOROPHENOL	94	4	LCSD	-1	LANCAS
2,4-DICHLOROPHENOL	85	5	LCSD	-1	LANCAS
2,4-DIMETHYLPHENOL	65	1	LCSD	-1	LANCAS
2,4-DINITROPHENOL	76	12	LCSD	-1	LANCAS
2,4-DINITROTOLUENE	92	5	LCSD	-1	LANCAS
2,6-DINITROTOLUENE	96	6	LCSD	-1	LANCAS
2-CHLORONAPHTHALENE	93	2	LCSD	-1	LANCAS
2-CHLOROPHENOL	87	4	LCSD	-1	LANCAS
2-NITROPHENOL	94	4	LCSD	-1	LANCAS
3,3'-DICHLOROBENZIDINE	99	34	LCSD	-1	LANCAS
3-PICOLINE	93	8	LCSD	-1	LANCAS
4,6-DINITRO-2-METHYLPHENOL	80	8	LCSD	-1	LANCAS
4-BROMOPHENYL PHENYL ETHER	98	5	LCSD	-1	LANCAS
4-CHLORO-3-METHYLPHENOL	90	7	LCSD	-1	LANCAS
4-CHLOROPHENYL PHENYL ETHER	95	5	LCSD	-1	LANCAS
4-NITROPHENOL	44	6	LCSD	-1	LANCAS
ACENAPHTHENE	85	3	LCSD	-1	LANCAS
ACENAPHTHYLENE	88	4	LCSD	-1	LANCAS
ANTHRACENE	85	3	LCSD	-1	LANCAS
BENZIDINE	92	20	LCSD	-1	LANCAS
BENZO (A) ANTHRACENE	88	3	LCSD	-1	LANCAS
BENZO (A) PYRENE	83	3	LCSD	-1	LANCAS
BENZO (B) FLUORANTHENE	93	7	LCSD	-1	LANCAS
BENZO (GHI) PERYLENE	96	7	LCSD	-1	LANCAS
BENZO (K) FLUORANTHENE	83	1	LCSD	-1	LANCAS
BIS (2-CHLOROETHOXY) METHANE	91	3	LCSD	-1	LANCAS
BIS (2-CHLOROETHYL) ETHER	94	5	LCSD	-1	LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	101	6	LCSD	-1	LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	101	5	LCSD	-1	LANCAS
BUTYL BENZYL PHTHALATE	93	7	LCSD	-1	LANCAS
CHRYSENE	84	2	LCSD	-1	LANCAS
DI-N-BUTYL PHTHALATE	99	2	LCSD	-1	LANCAS
DI-N-OCTYL PHTHALATE	93	4	LCSD	-1	LANCAS
DIBENZ (A,H) ANTHRACENE	95	7	LCSD	-1	LANCAS
DIETHYL PHTHALATE	89	8	LCSD	-1	LANCAS
DIMETHYL PHTHALATE	66	15	LCSD	-1	LANCAS
FLUORANTHENE	88	1	LCSD	-1	LANCAS
FLUORENE	91	6	LCSD	-1	LANCAS
HEXACHLOROBENZENE	96	5	LCSD	-1	LANCAS
HEXACHLOROBUTADIENE	72	3	LCSD	-1	LANCAS
HEXACHLOROCYCLOPENTADIENE	59	9	LCSD	-1	LANCAS
HEXACHLOROETHANE	77	9	LCSD	-1	LANCAS
INDENO (1,2,3-CD) PYRENE	94	7	LCSD	-1	LANCAS
ISOPHORONE	92	4	LCSD	-1	LANCAS
N,N-DIMETHYLACETAMIDE	22	4	LCSD	-1	LANCAS
N-NITROSODI-N-PROPYLAMINE	107	7	LCSD	-1	LANCAS

Lab Control Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID
N-NITROSODIMETHYLAMINE	68	2	LCSD -1 LANCAS
N-NITROSODIPHENYLAMINE	96	4	LCSD -1 LANCAS
NAPHTHALENE	83	3	LCSD -1 LANCAS
NITROBENZENE	93	2	LCSD -1 LANCAS
PENTACHLOROPHENOL	80	5	LCSD -1 LANCAS
PHENANTHRENE	88	2	LCSD -1 LANCAS
PHENOL	47	3	LCSD -1 LANCAS
PYRENE	92	9	LCSD -1 LANCAS
PYRIDINE	70	9	LCSD -1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID
1,2,4-TRICHLOROBENZENE	83	P289WAB-1 LANCAS
1,2-DICHLOROBENZENE	87	P289WAB-1 LANCAS
1,2-DIPHENYLHYDRAZINE	97	P289WAB-1 LANCAS
1,3-DICHLOROBENZENE	83	P289WAB-1 LANCAS
1,4-DICHLOROBENZENE	83	P289WAB-1 LANCAS
2,4,6-TRICHLOROPHENOL	88	P289WAB-1 LANCAS
2,4-DICHLOROPHENOL	82	P289WAB-1 LANCAS
2,4-DIMETHYLPHENOL	60	P289WAB-1 LANCAS
2,4-DINITROPHENOL	72	P289WAB-1 LANCAS
2,4-DINITROTOLUENE	90	P289WAB-1 LANCAS
2,6-DINITROTOLUENE	95	P289WAB-1 LANCAS
2-CHLORONAPHTHALENE	91	P289WAB-1 LANCAS
2-CHLOROPHENOL	84	P289WAB-1 LANCAS
2-NITROPHENOL	91	P289WAB-1 LANCAS
3,3'-DICHLOROBENZIDINE	97	P289WAB-1 LANCAS
3-PICOLINE	92	P289WAB-1 LANCAS
4,6-DINITRO-2-METHYLPHENOL	75	P289WAB-1 LANCAS
4-BROMOPHENYL PHENYL ETHER	94	P289WAB-1 LANCAS
4-CHLORO-3-METHYLPHENOL	88	P289WAB-1 LANCAS
4-CHLOROPHENYL PHENYL ETHER	90	P289WAB-1 LANCAS
4-NITROPHENOL	44	P289WAB-1 LANCAS
ACENAPHTHENE	83	P289WAB-1 LANCAS
ACENAPHTHYLENE	86	P289WAB-1 LANCAS
ANTHRACENE	83	P289WAB-1 LANCAS
BENZIDINE	102	P289WAB-1 LANCAS
BENZO (A) ANTHRACENE	86	P289WAB-1 LANCAS
BENZO (A) PYRENE	81	P289WAB-1 LANCAS
BENZO (B) FLUORANTHENE	85	P289WAB-1 LANCAS
BENZO (GHI) PERYLENE	94	P289WAB-1 LANCAS
BENZO (K) FLUORANTHENE	82	P289WAB-1 LANCAS
BIS (2-CHLOROETHOXY) METHANE	89	P289WAB-1 LANCAS
BIS (2-CHLOROETHYL) ETHER	96	P289WAB-1 LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	98	P289WAB-1 LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	101	P289WAB-1 LANCAS
BUTYL BENZYL PHTHALATE	93	P289WAB-1 LANCAS
CHRYSENE	82	P289WAB-1 LANCAS
DI-N-BUTYL PHTHALATE	97	P289WAB-1 LANCAS
DI-N-OCTYL PHTHALATE	87	P289WAB-1 LANCAS
DIBENZ (A,H) ANTHRACENE	95	P289WAB-1 LANCAS
DIETHYL PHTHALATE	87	P289WAB-1 LANCAS
DIMETHYL PHTHALATE	62	P289WAB-1 LANCAS
FLUORANTHENE	84	P289WAB-1 LANCAS
FLUORENE	87	P289WAB-1 LANCAS
HEXACHLOROBENZENE	91	P289WAB-1 LANCAS
HEXACHLOROBUTADIENE	71	P289WAB-1 LANCAS
HEXACHLOROCYCLOPENTADIENE	56	P289WAB-1 LANCAS
HEXACHLOROETHANE	75	P289WAB-1 LANCAS
INDENO (1,2,3-CD) PYRENE	92	P289WAB-1 LANCAS
ISOPHORONE	89	P289WAB-1 LANCAS
N,N-DIMETHYLACETAMIDE	21	P289WAB-1 LANCAS
N-NITROSODI-N-PROPYLAMINE	102	P289WAB-1 LANCAS
N-NITROSODIMETHYLAMINE	67	P289WAB-1 LANCAS
N-NITROSODIPHENYLAMINE	96	P289WAB-1 LANCAS
NAPHTHALENE	82	P289WAB-1 LANCAS
NITROBENZENE	93	P289WAB-1 LANCAS
PENTACHLOROPHENOL	66	P289WAB-1 LANCAS
PHENANTHRENE	86	P289WAB-1 LANCAS

Matrix Spike:

Analyte/Parameter	RPR	Lab Sample ID	
PHENOL	44	P289WAB-1	LANCAS
PYRENE	95	P289WAB-1	LANCAS
PYRIDINE	70	P289WAB-1	LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID	
1,2,4-TRICHLOROBENZENE	81	2	P289WAB-1	LANCAS
1,2-DICHLOROBENZENE	87	0	P289WAB-1	LANCAS
1,2-DIPHENYLHYDRAZINE	95	2	P289WAB-1	LANCAS
1,3-DICHLOROBENZENE	82	1	P289WAB-1	LANCAS
1,4-DICHLOROBENZENE	82	1	P289WAB-1	LANCAS
2,4,6-TRICHLOROPHENOL	91	3	P289WAB-1	LANCAS
2,4-DICHLOROPHENOL	83	1	P289WAB-1	LANCAS
2,4-DIMETHYLPHENOL	50	18	P289WAB-1	LANCAS
2,4-DINITROPHENOL	75	4	P289WAB-1	LANCAS
2,4-DINITROTOLUENE	93	4	P289WAB-1	LANCAS
2,6-DINITROTOLUENE	95	0	P289WAB-1	LANCAS
2-CHLORONAPHTHALENE	91	0	P289WAB-1	LANCAS
2-CHLOROPHENOL	84	1	P289WAB-1	LANCAS
2-NITROPHENOL	93	2	P289WAB-1	LANCAS
3,3'-DICHLOROBENZIDINE	99	2	P289WAB-1	LANCAS
3-PICOLINE	89	3	P289WAB-1	LANCAS
4,6-DINITRO-2-METHYLPHENOL	78	4	P289WAB-1	LANCAS
4-BROMOPHENYL PHENYL ETHER	93	1	P289WAB-1	LANCAS
4-CHLORO-3-METHYLPHENOL	88	0	P289WAB-1	LANCAS
4-CHLOROPHENYL PHENYL ETHER	89	1	P289WAB-1	LANCAS
4-NITROPHENOL	45	3	P289WAB-1	LANCAS
ACENAPHTHENE	84	0	P289WAB-1	LANCAS
ACENAPHTHYLENE	87	1	P289WAB-1	LANCAS
ANTHRACENE	83	1	P289WAB-1	LANCAS
BENZIDINE	77	28	P289WAB-1	LANCAS
BENZO (A) ANTHRACENE	88	3	P289WAB-1	LANCAS
BENZO (A) PYRENE	83	2	P289WAB-1	LANCAS
BENZO (B) FLUORANTHENE	87	3	P289WAB-1	LANCAS
BENZO (GHI) PERYLENE	97	4	P289WAB-1	LANCAS
BENZO (K) FLUORANTHENE	87	6	P289WAB-1	LANCAS
BIS (2-CHLOROETHOXY) METHANE	89	0	P289WAB-1	LANCAS
BIS (2-CHLOROETHYL) ETHER	92	4	P289WAB-1	LANCAS
BIS (2-CHLOROISOPROPYL) ETHER	99	1	P289WAB-1	LANCAS
BIS (2-ETHYLHEXYL) PHTHALATE	108	7	P289WAB-1	LANCAS
BUTYL BENZYL PHTHALATE	96	3	P289WAB-1	LANCAS
CHRYSENE	84	2	P289WAB-1	LANCAS
DI-N-BUTYL PHTHALATE	100	3	P289WAB-1	LANCAS
DI-N-OCTYL PHTHALATE	96	9	P289WAB-1	LANCAS
DIBENZ (A,H) ANTHRACENE	98	3	P289WAB-1	LANCAS
DIETHYL PHTHALATE	89	2	P289WAB-1	LANCAS
DIMETHYL PHTHALATE	66	6	P289WAB-1	LANCAS
FLUORANTHENE	86	3	P289WAB-1	LANCAS
FLUORENE	87	0	P289WAB-1	LANCAS
HEXACHLOROBENZENE	90	1	P289WAB-1	LANCAS
HEXACHLOROBUTADIENE	67	5	P289WAB-1	LANCAS
HEXACHLOROCYCLOPENTADIENE	54	3	P289WAB-1	LANCAS
HEXACHLOROETHANE	75	0	P289WAB-1	LANCAS
INDENO (1,2,3-CD) PYRENE	95	3	P289WAB-1	LANCAS
ISOPHORONE	90	0	P289WAB-1	LANCAS
N,N-DIMETHYLACETAMIDE	22	3	P289WAB-1	LANCAS
N-NITROSODI-N-PROPYLAMINE	106	4	P289WAB-1	LANCAS
N-NITROSODIMETHYLAMINE	68	1	P289WAB-1	LANCAS
N-NITROSODIPHENYLAMINE	94	2	P289WAB-1	LANCAS
NAPHTHALENE	81	1	P289WAB-1	LANCAS
NITROBENZENE	93	0	P289WAB-1	LANCAS
PENTACHLOROPHENOL	72	8	P289WAB-1	LANCAS
PHENANTHRENE	86	0	P289WAB-1	LANCAS
PHENOL	45	2	P289WAB-1	LANCAS
PYRENE	96	1	P289WAB-1	LANCAS
PYRIDINE	66	6	P289WAB-1	LANCAS

Matrix Spike Duplicate:

Analyte/Parameter	RPR	RPD	Lab Sample ID

Comments:

8270B 3,3'-Dichlorobenzidine: Replicate analyses between the lab control spike and spike duplicate produced a relative percent difference outside of control limits. Lab control spike recoveries met acceptance criteria.

CHAINS OF CUSTODY

conoco

Environmental Sample Chain of Custody and Log

Research and Engineering

#790 No. 43596

Project Number: 2398421-40 ADS

Type or Print Data

Facility Name	DUPONT CIRCLEVILLE
Telephone Number	(619 474- 0865
Transporter Name	FEDERAL EXPRESS
Telephone Number	( ) -
Facility Address	800 DUPONT RD. CIRCLEVILLE, OH 43113
Transporter Address	
Facility Supervisor	RALPH DOWLER
Method of Shipping	OVERNIGHT AIR
Process Producing Sample	CIRCLEVILLE GW-4Q95
Special Shipping Instructions	PACK IN WET ICE TO LANCASTER LAB PA
Employee(s) Sampling	D. Bacon
Remarks	
Other Employee(s) Handling	G. WALDTVEDT

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	$270
CIR-M-1	10-11-95	1143	WATER-G	1000ML	AG	2	NONE	X
CIR-M-2S		1050	WATER-G	1000ML	AG	2	NONE	X
CIR-M-2D		1116	WATER-G	1000ML	AG	2	NONE	X
CIR-M-3		1044	WATER-G	1000ML	AG	2	NONE	X

NB 10/16/95

Signatures

Bottles Relinquished by	Date/Time 10/6/95 1210	Bottles Received by	Date/Time 10-11-95 0700	Condition of Samples Upon Arrival at Final Destination	
Relinquished by	Date/Time 10/12/95 0900	Received by	Date/Time	GOOD	
Relinquished by	Date/Time	Received by	Date/Time	Signature K. Gunto	Date 10-13-95
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)	
Relinquished by	Date/Time	Received by	Date/Time	2.1°	
Relinquished by	Date/Time	Received by K. Gunto	Date/Time 10-13-95 1045	Signature K. Gunto	Date 10-13-95

conoco

Environmental Sample Chain of Custody and Log
Research and Engineering

~~4052~~ 2398421-40 #726 No. 43598

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619 474 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( )
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: D. Bacon	Remarks:		
Other Employee(s) Handling: G. WOLDTVEDT	TBLK = 100395-1		

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	6240	MB 10/16/95
CIR-M-7	10-11-95	0840	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-MW-1		1449	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-MW-4		1411	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-~~MW-6D-1~~ M-6D-1		0911	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-~~MW-6D-2~~ M-6D-2		↓	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-~~MW-6S~~ M-6S		0918	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-MW-9		1715	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-MW-10		1910	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-~~EQBLK-2~~ MW-6		1351	WATER	40 ML	AG/S	3	HCL	X	
CIR-TBLK-2 JJV	10/6/95	1215	WATER	40 ML	AG/S	3	HCL	X	

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
[signature]	10/6/95 1245	Don Bacon	10-11-95 0700	
Relinquished by: Don Bacon	Date/Time: 10/12/95 0900	Received by:	Date/Time:	GOOD
Relinquished by:	Date/Time:	Received by:	Date/Time:	Signature: K. Gunter — Date: 10-13-95
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temp. of Samples on Arrival (Temp. sensitive analysis only):
Relinquished by:	Date/Time:	Received by:	Date/Time:	1.8°
Relinquished by:	Date/Time:	Received by: K. Gunter	Date/Time: 10-13-95 0945	Signature: K. Gunter — Date: 10-13-95

CONOCO

Environmental Sample Chain of Custody and Log

Research and Engineering

#761 No. 43599

2398421-40

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( ) -
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: D. Bacon	Remarks:		
Other Employee(s) Handling: G. WOLDTVEDT			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	8270	NB 10/16/95
CIR-M-7	10-11-95	0840	WATER-G	1000ML	AG	2	NONE	X	
CIR-MW-1	1449	~~0911~~	WATER-G	1000ML	AG	2	NONE	X	
CIR-MW-4		1417	WATER-G	1000ML	AG	2	NONE	X	
CIR-~~MW-6D-1~~ M-6D-1		0911	WATER-G	1000ML	AG	2	NONE	X	
CIR-~~MW-6D-2~~ M-6D-2		0911	WATER-G	1000ML	AG	2	NONE	X	
CIR-~~MW-6S~~ M-6S		0918	WATER-G	1000ML	AG	2	NONE	X	

Signatures

Bottles Relinquished by: [signature]	Date/Time: 10/6/95 1250	Bottles Received by: Don Bacon	Date/Time: 10-11-95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: Don Bacon	Date/Time: 10-12-95 0900	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Signature: K. Guite — Date: 10-13-95
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temp. of Samples on Arrival (Temp. sensitive analysis only): 1.4°
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by: K. Guite	Date/Time: 10-13-95 0945	Signature: K. Guite — Date: 10-13-95

CONOCO

Environmental Sample Chain of Custody and Log

Research and Engineering

#726

No. 43600

2398421-40

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619) 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( ) -
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: D Bacon	Remarks:		
Other Employee(s) Handling: G. WOLDTVEDT			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	8270	NB 10/16/95
CIR-MW-9	10-11-95	1715	WATER-G	1000ML	AG	2	NONE	X	
CIR-MW-10	↓	1910	WATER-G	1000ML	AG	2	NONE	X	
05 CIR-~~EQBLK-2~~ MW-6	↓	1351	WATER-G	1000ML	AG	2	NONE	X	

Signatures

Bottles Relinquished by: [signature]	Date/Time: 10/6/95 1240	Bottles Received by: Don Bacon	Date/Time: 10-11-95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: Don Bacon	Date/Time: 10/12/95 0900	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Signature: K. Guito — Date: 10-13-95
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temp. of Samples on Arrival (Temp. sensitive analysis only): 1.8°
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by: K. Guito	Date/Time: 10-13-95 0945	Signature: K. Guito — Date: 10-13-95

CONOCO

Environmental Sample Chain of Custody and Log

Research and Engineering

2396922-36 #746 No. 43601

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619) 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( )
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: Don Bacon	Remarks: TBLK=100395-1		
Other Employee(s) Handling: GUNDER WOLDTVEDT			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	8240	11 DCE
CIR-SPMW-1	10-10-95	1315	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-SPMW-1-MS			WATER-G	40 ML	AG/S	3	HCL	X	
CIR-SPMW-1-MSD			WATER-G	40 ML	AG/S	3	HCL	X	
CIR-~~SPMW-1D~~ SPMW-1D		1410	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-SPMW-4-1		1210	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-SPMW-4-2		1210	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-SPMW-5		1535	WATER-G	40 ML	AG/S	3	HCL	X	
CIR-SPMW-6		1500	WATER-G	40 ML	AG/S	3	HCL	X	
~~CIR-BD-2~~			~~WATER-G~~	~~40 ML~~	~~AG/S~~	~~3~~	~~HCL~~		~~X~~
~~CIR-BD-3~~			~~WATER-G~~	~~40 ML~~	~~AG/S~~	~~3~~	~~HCL~~		~~X~~
CIR-EQBLK-3		1525	WATER	40 ML	AG/S	3	HCL	X	
CIR-TBLK-3 JJV	10/6/95	1215	WATER	40 ML	AG/S	3	HCL	X	

NB 10/12/95

DL 10/10/95

Signatures

Bottles Relinquished by: [signature]	Date/Time: 10/6/95 1305	Bottles Received by: Don Bacon	Date/Time: 10-10-95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: Don Bacon	Date/Time: 10/10/95 1630	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Signature: Harlan Collins — Date: 10-11-95
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temp. of Samples on Arrival (Temp. sensitive analysis only): 0.5
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by: Harlan Collins	Date/Time: 10-11-95 0930	Signature: Harlan Collins — Date: 10-11-95

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Environmental Sample Chain of Custody and Log

Research and Engineering

#672 No. 43602

2396922-36

Project Number: ADS

Type or Print Data

Facility Name	DUPONT CIRCLEVILLE
Telephone Number	(619 474- 0865
Transporter Name	FEDERAL EXPRESS
Telephone Number	( ) -
Facility Address	800 DUPONT RD. CIRCLEVILLE, OH 43113
Transporter Address	
Facility Supervisor	RALPH DOWLER
Method of Shipping	OVERNIGHT AIR
Process Producing Sample	CIRCLEVILLE GW-4Q95
Special Shipping Instructions	PACK IN WET ICE TO LANCASTER LAB PA
Employee(s) Sampling	Don Bacon
Remarks	
Other Employee(s) Handling	Gunter WOLDTVEDT

6 2 5 8 2 7 0 NB 10/12/95

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. Preservative	
CIR-SPMW-1	10-10-95	1315	WATER-G	1000ML	AG	2	NONE	X
CIR-SPMW-1-MS			WATER-G	1000ML	AG	2	NONE	X
CIR-SPMW-1-MSD			WATER-G	1000ML	AG	2	NONE	X
~~CIR-SPMW-10~~ SPMW-1D		1410	WATER-G	1000ML	AG	2	NONE	X
CIR-SPMW-4-1		1210	WATER-G	1000ML	AG	2	NONE	X
CIR-SPMW-4-2		1210	WATER-G	1000ML	AG	2	NONE	X

Signatures

Bottles Relinquished by: [signature]	Date/Time 10/6/95 1310	Bottles Received by: [signature]	Date/Time 10/10/95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: [signature]	Date/Time 10/10/95 1630	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature: K. Gunter Date: 10-11-95
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only): 2.0°
Relinquished by	Date/Time	Received by: K. Gunter	Date/Time 10-11-95 0930	Signature: K. Gunter Date: 10-11-95

CONOCO

Environmental Sample Chain of Custody and Log

Research and Engineering

#746 No. 43603

2396922-36

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( )
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: Don Bacon	Remarks:		
Other Employee(s) Handling: GUNDER WOLDTVEDT			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	6215 8270	NB 10/12/95
CIR-SPMW-5	10-10-95	1535	WATER-G	1000ML	AG	2	NONE	X	
CIR-SPMW-6	↓	1500	WATER-G	1000ML	AG	2	NONE	X	
CIR-EQBLK-3	↓	1525	WATER-G	1000ML	AG	2	NONE	X	

Signatures

Bottles Relinquished by: [signature]	Date/Time: 10/6/95 1255	Bottles Received by: Don Bacon	Date/Time: 10/10/95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: Don Bacon	Date/Time: 10/10/95 1630	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Signature: Harlan Collins — Date: 10-11-95
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temp. of Samples on Arrival (Temp. sensitive analysis only): 0.5
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by: Harlan Collins	Date/Time: 10-11-95 0930	Signature: Harlan Collins — Date: 10-11-95

conoco

Environmental Sample Chain of Custody and Log

Research and Engineering

#755 No. 43604

2396922-36

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( ) -
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: Don Bacon	Remarks: * EQUIPMENT BLANK #3 WAS USED		
Other Employee(s) Handling: GUNDER WOLOTVEDT	TBLK=100395-1 8240SP=1,4-Dioxane		

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	8240SP
CIR-~~WELL-2~~ PW-2	10-10-95	0855	WATER-G	40 ML	AG/S	3	HCL	X
CIR-~~WELL-3~~ PW-3	↓	1000	WATER-G	40 ML	AG/S	3	HCL	X
CIR-~~WELL-4~~ PW-4		0931	WATER-G	40 ML	AG/S	3	HCL	X
CIR-~~WELL-5~~ PW-5		0921	WATER-G	40 ML	AG/S	3	HCL	X
CIR-~~WELL-6~~ PW-6		0911	WATER-G	40 ML	AG/S	3	HCL	X
CIR-~~WELL-7~~ PW-7		1025	WATER-G	40 ML	AG/S	3	HCL	X
~~CIR-EQBLK-4~~			~~WATER~~	~~40 ML~~	~~AG/S~~	~~3~~	~~HCL~~	~~X~~
CIR-TBLK-4 JJV	10/6/95	1215	WATER	40 ML	AG/S	3	HCL	X

NB 10/12/95

Signatures

Bottles Relinquished by: [signature]	Date/Time: 10/6/95 1335	Bottles Received by: [signature]	Date/Time: 10/10/95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: [signature]	Date/Time: 10/10/95 1630	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature: K. Gunter Date: 10-11-95
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only): 1.4°
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by: K. Gunter	Date/Time: 10-11-95 0930	Signature: K. Gunter Date: 10-11-95

CONOCO

Environmental Sample Chain of Custody and Log

Research and Engineering

#190 No. 43608

2398421-40

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619) 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( ) -
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: D. Bacon	Remarks:		
Other Employee(s) Handling: G WOLDTVEDT	TBLK = 100395-1		

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	8240	1 DCE	NB 10/16/95
CIR-M-1	10-11-95	1143	WATER-G	40 ML	AG/S	3	HCL	X		
CIR-M-2S	↓	1050	WATER-G	40 ML	AG/S	3	HCL	X		
CIR-M-2D	↓	1116	WATER-G	40 ML	AG/S	3	HCL	X		
CIR-M-3	↓	1044	WATER-G	40 ML	AG/S	3	HCL	X		
CIR-M-4S	↓	0936	WATER-G	40 ML	AG/S	3	HCL	X		
CIR-M-4D	↓	1019	WATER-G	40 ML	AG/S	3	HCL	X		
CIR-EQBLK-1	↓	0745	WATER	40 ML	AG/S	3	HCL	X		
CIR-TBLK-1 JJV	10/6/95	1225	WATER	40 ML	AG/S	3	HCL	X		
CIR-DB-2	10-11-95	1510	↓ -G	↓	↓	3	↓		X	
CIR-DB-3	↓	1505	↓ -G	↓	↓	3	↓		X	

Signatures

Bottles Relinquished by: [signature]	Date/Time: 10/6/95 1230	Bottles Received by: Don Bacon	Date/Time: 10-11-95 0700	Condition of Samples Upon Arrival at Final Destination: GOOD
Relinquished by: Don Bacon	Date/Time: 10-12-95 0900	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Signature: K. Gunter — Date: 10-13-95
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temp. of Samples on Arrival (Temp. sensitive analysis only): 2.1°
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by: K. Gunter	Date/Time: 10-13-95 0945	Signature: K. Gunter — Date: 10-13-95

CONOCO

Environmental Sample Chain of Custody [illegible] Log

Research and Engineering

#415 [illegible]. 43609

2398421-40

Project Number: ADS

Type or Print Data

Facility Name: DUPONT CIRCLEVILLE	Telephone Number: (619) 474- 0865	Transporter Name: FEDERAL EXPRESS	Telephone Number: ( )
Facility Address: 800 DUPONT RD. CIRCLEVILLE, OH 43113		Transporter Address:	
Facility Supervisor: RALPH DOWLER		Method of Shipping: OVERNIGHT AIR	
Process Producing Sample: CIRCLEVILLE GW-4Q95	Special Shipping Instructions: PACK IN WET ICE TO LANCASTER LAB PA		
Employee(s) Sampling: Don Bacon	Remarks:		
Other Employee(s) Handling: G. WOLDTVEDT			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req.▶ Preservative	8270	MB 10/16/95
CIR-M-4S	10-11-95	0936	WATER-G	1000ML	AG	2	NONE	X	
CIR-M-4D	↓	1019	WATER-G	1000ML	AG	2	NONE	X	
CIR-EQBLK-1	↓	0745	WATER-G	1000ML	AG	2	NONE	X	

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
[signature]	10/6/95 1235	Don Bacon	10-11-95 0700	
Relinquished by: Don Bacon	10/12/95 0900	Received by	Date/Time	GOOD
Relinquished by	Date/Time	Received by	Date/Time	Signature: K. Guito — Date: 10-13-95
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	1.9°
Relinquished by	Date/Time	Received by: K. Guito	Date/Time: 10-13-95 0945	Signature: K. Guito — Date: 10-13-95

ANALYZING LAB COPY