REPORT ON SOIL SAMPLING FOR CLOSURE DOCUMENTATION - HAZARDOUS WASTE MANAGEMENT UNITS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

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Project No.: 2887-11

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PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

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PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

EXECUTIVE SUMMARY

Philips Display Components Division (Philips) is in the process of closing, according to RCRA standards, two hazardous waste management units (impoundments) and a waste incinerator at its Seneca Falls, New York facility. These impoundments were removed in 1987 and the incinerator was removed in 1987.

At the July 26, 1988 meeting among representatives from New York State Department of Environmental Conservation, Philips Display Components Company, and The Chester Engineers (Chester), the need for additional soil sampling for closure documentation and the need for an alternate groundwater monitoring system was discussed. Philips engaged Chester to develop and implement a work plan for conducting the additional sampling and testing required. The results are presented in this report.

To document soil conditions in the area of the hazardous waste management units and determine whether or not a release that may be potentially harmful to human health and the environment had taken place, the DEC required that selected soil samples be subjected to chemical analyses according to 40 CFR Part 264, Appendix IX. Field activities were conducted during the period of October 17, 18 and 19, 1987.

The analytical results for inorganics are interpreted to indicate that cyanide and metal concentrations found in the soil samples analyzed are not an environmental problem at the facility. Cyanides were detected in one sample. However, because of the lack of groundwater, and the low cyanide concentration present, this is not considered an environmental problem. The metals barium, cadmium, total chromium, cobalt, copper, lead, mercury, nickel, tin, vanadium and zinc were detected in all of the samples. All concentrations are within the ranges of naturally occurring concentrations for these elements.

Organic compound concentrations found in the soil samples analyzed are judged not to be an environmental problem at the facility. The organic contaminants present in samples analyzed include benzene, ethylbenzene, methylene chloride, toluene, trichloroethylene, acetone, methyl ethyl ketone, styrene, vinyl acetate, xylenes, bis (2-ethylhexyl) phthalate and methyl isobutyl ketone. Only soil test boring TB-1 exceeded a calculated action level concentration for benzene, based on an assumed 10^{-6} level of risk. Because of this, organic compound concentrations found in the soil samples analyzed are not considered an environmental problem at the Seneca Falls facility.

For the reasons outlined above, qualitatively, the presence of the very low, but detectable, concentrations of contaminants in the soil at the Philips Seneca Falls Facility below the impoundments and underground storage tanks that fed the incinerator are not considered environmentally significant.

REPORT ON SOIL SAMPLING FOR
CLOSURE DOCUMENTATION -
HAZARDOUS WASTE MANAGEMENT UNITS

PHILIPS DISPLAY COMPONENTS COMPANY

1.0 INTRODUCTION

Philips Display Components Division (Philips) is in the process of closing, according to RCRA standards, two hazardous waste management units (impoundments) and a waste incinerator at the Seneca Falls, New York facility. A general site location map of the Philips Display Components Division facility is presented as Figure 1. The facility is located near the edge of an escarpment along the Seneca River. The waste management units of interest (holding lagoon and filter cake dump pit impoundments, and the waste incinerator) were positioned about 40 to 70 feet from the edge of the escarpment. These impoundments were removed in 1987, and the incinerator was removed in 1988. A RCRA compliance network monitors the groundwater in the vicinity of the hazardous waste management units (Figure 2).

A meeting was held on July 26, 1988, among representatives from New York State Department of Environmental Conservation, Philips Display Components Company, and The Chester Engineers (Chester). At this meeting, the need for additional soil sampling for closure documentation and the need for an alternate groundwater monitoring system was discussed.

Philips engaged Chester to develop and implement a work plan for conducting the additional sampling and testing in the vicinity of the hazardous waste management units. The work plan, Appendix I, has been completed and the results are presented below.

1.1 Soil Sampling in the Area of the Hazardous Waste Management Facilities

To verify soil conditions in the area of the hazardous waste management facilities, the DEC required that the following soil samples be subjected to chemical analyses according to 40 CFR Part 264, Appendix IX in the area of the closed wastewater effluent holding lagoon, the closed filter cake impoundment and the two closed underground storage tanks that fed the waste incinerator:

Location (Figure 3)	Sample Level (Feet below the present ground surface)
A-1	2, 5
B-2	3, 6
B-4	2, 5
D-3	2, 5
E-2	3, 6
I-1	2, 5

All samples were collected by continuous split-spoon sampling using a tripod. Drilling was conducted by Catoh Drilling Company.

1.2 Alternate Groundwater Monitoring System

As a result of the July 26, 1988 meeting, it was concluded that, in its present form, the alternate RCRA monitoring system currently being utilized does not provide adequate water to fully document groundwater quality. The DER requested that some additional testing be performed to verify that a release potentially harmful to human health and the environment had not taken place. Considering that:

1) The impoundments are no longer in existence, and

2) Historically, consistent problems have arisen with respect to obtaining sufficient volumes of groundwater for analysis from certain key monitoring wells at the site.

An alternate approach to installing additional monitoring wells was proposed to determine if, in fact, a release may have occurred.

Two separate soil borings (TB-1 and TB-2) were completed near the southeast corner of the wastewater holding lagoon impoundment in the vicinity of existing monitoring wells MW-4 and MW-7 (Figure 2). At each location, a boring was advanced to refusal (based on the assumption that the refusal point is near the weathered bedrock/till interface). The boring consisted of continuous split-spoon sampling using a hollow-stem auger drill rig (CME-750). The last split-spoon prior to refusal in each borehole was collected and analyzed for the hazardous constituents

listed in 40 CFR Part 264, Appendix IX. Drilling was conducted by Catoh Drilling Company.

2.0 SITE GEOLOGY

The Seneca Falls plant facility is underlain by glacial till which is encountered from 21 to 37 feet beneath the ground surface. The till consists primarily of clay with trace amounts of medium sand-sized particles to boulder-sized material dispersed throughout the till. In the vicinity of the impoundments, fractures coated with limonitic precipitate, which indicates groundwater movement through the fractures, have been observed in the side walls of excavations up to 15 feet in depth. Sampling conducted on December 7, 1987 indicated that the precipitate lining these fractures has not been contaminated with metals by leachate from the waste management units.

Bedrock beneath the glacial till consists of the Bertie Limestone and the Camillus Shale. The Bertie Limestone is immediately beneath the till and is about 25 feet thick in the area of interest. The upper part of the Bertie Limestone at the till-bedrock interface is mantled by a veneer of weathered rock. The Bertie Limestone is a magnesian limestone with shaley interbeds ranging in thickness from 3 to 10 inches. These interbeds weather to carbonaceous partings that are represented in cores and cuttings as hard, slatey shale.

The Camillus Shale is directly beneath the Bertie Limestone and is predominantly a shale unit with thin beds of limestone, gypsum and salt. The thickness of this unit is about

500 feet. Both units appear to have primary and secondary permeability caused by fractures and solution cavities.

3.0 FIELD ACTIVITIES

Field activities were conducted during the period of October 17, 18, and 19, 1988. Standard Chester Health and Safety procedures were followed. The Sampling and Analysis Plan (Appendix I) was followed with the following exceptions:

1) The locations of soil test borings TB-1 and TB-2 were shifted slightly to facilitate drill rig access.

2) Hole C-3 was substituted for hole B-2, at the request of James Bologna, NYDEC.

3) Hole A-5 was substituted for hole B-4, at the request of James Bologna, NYDEC.

4) Split-spoon sampling was conducted on hole TB-1 beginning at a depth of 17 feet.

5) Stainless steel split-spoons were only used for soil test boring holes TB-1 and TB-2. Conventional split-spoons were used for holes A-1, A-5, C-3, D-3, E-2, and I-1.

4.0 RESULTS

4.1 Soil Test Boring Logs

Boring logs for all soil test borings are presented in Appendix II.

As anticipated, the overburden (glacial till) consists of brown to light brown, very stiff clay, with trace amounts of poorly sorted outwash (mostly less than 2 cm, grading to 4 cm). No organics are present in the massive, moist clay.

Soil test borings TB-1 and TB-2 penetrated about 22.5 and 21.0 feet of similar material, respectively, before penetrating the weathered bedrock. The weathered bedrock consisted of red to gray, very dense, thinly bedded, moist, fissile shale.

4.2 Analytical Results

All samples collected were subjected to analyses for parameters outlined in 40 CFR Part 264, Appendix IX. The results are detailed in Appendix III, and summarized in Table 1.

The data presented in Table 1 includes all parameters for which the analytical procedure indicated the presence of the parameter in the soil in a concentration in excess of the limit of detection inherent in the procedure. For inorganics, these parameters include total cyanide, barium, cadmium, total chromium, cobalt, copper, lead, mercury, nickel, tin, vanadium and zinc.

For organic compounds, these parameters include benzene, ethylbenzene, methylene chloride, toluene, trichloroethylene, acetone, methyl ethyl ketone, styrene, vinyl acetate, xylenes, bis (2-ethylhexyl) phthalate and methyl isobutyl ketone.

5.0 ENVIRONMENTAL SIGNIFICANCE OF ANALYTICAL RESULTS

Results of chemical analyses indicate the occurrence of both organic contaminants and elevated metals values. This section presents an assessment of the environmental significance of these occurrences. Data from Dragun, 1988, Hawkes and Webb, 1962, and Shackette and Boerngen, 1984, was used to establish naturally occurring background value ranges for the inorganic constituents.

Contaminants adsorbed onto soil are immobile relative to contaminants in groundwater. However, these materials can desorb and move into groundwater. For this reason, a determination of the significance of soil contaminants must consider not only their toxicity, but also their solubility and tendency to absorb to particulates. These criteria are considered in the assessment that follows.

5.1 Inorganics

Inorganics present in samples analyzed include total cyanide, barium, cadmium, total chromium, cobalt, copper, lead, mercury, nickel, tin, vanadium, and zinc.

5.1.1 Total Cyanide

Cyanides were detected only in the sample from TB-2 at a concentration of 0.41 mg/kg. An allowable dose over a lifetime that would result in no deleterious effects is 1.4 mg/day. This means that a child could ingest over 0.825 kg of soil per day and an adult could ingest over 3 kg of soil per day without any ill effects. There is, therefore, no threat to human health via the route of soil ingestion due to cyanide contamination.

Cyanides are not likely to leach into groundwater because metal cyanides generally are insoluble in the pH range anticipated in nature (4-8). Free cyanide as HCN is mobile in soils; however, it is volatile and also biodegrades. For these reasons, cyanide concentrations found in soil samples analyzed are not considered an environmental problem at the Seneca Falls Facility.

5.1.2 Metals

Table 2 indicates the range of concentrations for selected metals in soils that occurs in nature. The metals detected in the samples are all within

naturally occurring concentrations ranges for these elements. The two samples from test boring C-3 had slightly higher concentrations of cadmium, lead, and zinc, and test boring TB-1 had a slightly higher concentration of mercury than other samples analyzed during this sampling event; however, these concentrations are well within the ranges of naturally occurring concentrations for the metals. For this reason, metal concentrations found in the soil samples analyzed are not considered an environmental problem at the Seneca Falls Facility.

5.2 Organic Compounds

The organic contaminants present in samples analyzed include benzene, ethylbenzene, methylene chloride, toluene, trichloroethylene, acetone, methyl ethyl ketone, styrene, vinyl acetate, xylenes, bis (2-ethylhexyl) phthalate and methyl isobutyl ketone. Based on published toxicological data and using a risk level for carcinogens of 10^{-6}, action levels were calculated for each compound based on soil ingestion and the potential for leaching into groundwater above specified water quality standards. The methodology for calculation of these action levels is included as Appendix IV to this report.

The concentration of only one parameter (Benzene 0.880 mg/kg) in one soil test boring, TB-1, exceeded the calculated action level concentration (0.415 mg/kg) (Table 3). Because of the isolated nature of this

occurrence, the fact that little or no groundwater is present in the area, that benzene biodegrades and that no one is likely to ingest the soil, this occurrence is not considered an environmental problem. Thus, organic compound concentrations found in the soil samples analyzed are not considered an environmental problem at the Seneca Falls Facility.

6.0 CONCLUSIONS

Results of a subsurface investigation at the Seneca Falls Facility in the area of the abandoned wastewater effluent holding lagoon, abandoned filter cake dump pit impoundment, and abandoned underground storage tanks that fed the waste incinerator indicated the presence of several inorganic and organic compounds from the list of common contaminants outlined in 40 CFR Part 264, Appendix IX.

Cyanides were detected in one sample. However, because of the lack of groundwater, and the low cyanide concentration present, this is not considered an environmental problem at the Seneca Falls Facility.

The metals barium, cadmium, total chromium, cobalt, copper, lead, mercury, nickel, tin, vanadium, and zinc were detected in all of the samples. All concentrations are within the ranges of naturally occurring concentrations for these elements. For this reason, metal concentrations found in the soil samples analyzed are not considered an environmental problem at the Seneca Falls Facility.

The organic contaminants present in samples analyzed include benzene, ethylbenzene, methylene chloride, toluene, trichloroethylene, acetone, methyl ethyl ketone, styrene, vinyl acetate, xylenes, bis (2-ethylhexyl) phthalate and methyl isobutyl ketone. Only soil test boring (TB-1) exceeded a calculated action level concentration for benzene, based on an assumed 10^{-6} level of risk. Because of this, organic compound concentrations found in the soil samples analyzed are not considered an environmental problem at the Seneca Falls Facility.

For the reasons outlined above, qualitatively, the presence of the very low, but detectable, concentrations of contaminants in the soil at the Philips Seneca Falls Facility below the impoundments and underground storage tanks that fed the incinerator are not considered environmentally significant.

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Shacklette, H. T. and Boerngen, J. G., 1984, Element Concentrations in Soils and Other Surficial Materials of the Coterminous United States, U. S. Geological Survey Professional Paper 1270, United States Government Printing Office, Washington, D. C., 105 p.

APPENDIX I

RCRA CLOSURE ACTIVITIES
SOIL SAMPLING PLAN FOR THE VICINITY
OF CLOSED HAZARDOUS WASTE
MANAGEMENT UNITS

PHILIPS DISPLAY COMPONENTS COMPANY
SENECA FALLS, NEW YORK

RCRA CLOSURE ACTIVITIES: SOIL SAMPLING PLAN FOR THE VICINITY OF THE CLOSED HAZARDOUS WASTE MANAGEMENT UNITS

OCTOBER 1988

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CLOSURE SOIL SAMPLING
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CLOSURE SOIL SAMPLING
APPENDIX IX ANALYSES

This plan will be used in preparing for and executing the soil sampling program in the area of the former hazardous waste management units (impoundments) at the Seneca Falls Facility. The sampling program is part of the closure activities for the wastewater effluent lagoon, filter cake impoundment, and underground incinerator waste feed storage tanks. The plan addresses the three major phases required to conduct the field sampling program: pre-field or office activities, on-site sampling activities and post-sampling activities. Each phase is addressed herein first by briefly describing the general tasks that must be considered, and then by detailing procedures to be followed in implementing each phase.

1.0 PRE-FIELD OFFICE ACTIVITIES

1.1 Summary of Tasks to be Performed

Quality control during sampling activities is of foremost concern in the soil sampling activities. The first step toward proper quality control is thorough preparation and pre-planning to minimize scheduling conflicts, uncertainty as to the sampling protocol, equipment problems, and time spent during field sampling activities.

Preparation for sampling involves four activities: 1) sampling must be coordinated closely (techniques and schedule) with plant and analytical laboratory personnel so that project activities proceed without

uncertainty and delay which can contribute to the loss of sample integrity; 2) arrangements with the drilling subcontractor must be made; 3) all necessary, equipment and forms must be assembled; 4) all sampling personnel must be thoroughly trained in the operation of all sampling equipment and sampling procedures, precautions to avoid sample and bottle contamination, and record keeping procedures; 5) all personnel should review and become familiar with the site Health and Safety Plan.

The following procedure is to be initiated one week prior to the scheduled sampling. It is the responsibility of the person in charge of sampling (Team Leader) to certify that each task has been completed. To assure that no items have been omitted, a check list of office activities will be used as a basis for directing pre-field activities. It will be up to the Team Leader, unless otherwise specified, to initial each completed task on the punch list once all of the tasks have been addressed. Table 1 presents the pre-field check list to be used by the Team Leader in preparing for sampling trips.

1.2 Procedure

1.2.1 At least seven days in advance of the scheduled sampling event, the Team Leader will: 1) notify the analytical laboratory about the scheduled sampling event, 2) procure the appropriate type and number of sample containers and shipping containers, and 3) brief lab personnel on the anticipated date and time that samples will be delivered. A list of parameters and analytical

TABLE 1

PRE-FIELD/OFFICE PUNCH LIST
RCRA GROUNDWATER SAMPLING

SAMPLING DATES: October 17 & 18

	Task	Initials	Date
1.	Notify Analytical Laboratory	_____	____
2.	Assemble Sampling Equipment and Completed Equipment Checklist.....	_____	____
3.	Check Operating Condition and Maintenance Records of Field Equipment.....	_____	____
4.	Assemble Necessary Forms.....	_____	____
	a. Field Log Book.....	_____	____
	b. Field Punch List.....	_____	____
	c. Chain of Custody.....	_____	____
	d. Analyses Request Sheet.....	_____	____
5.	Receive Sample Bottles and Shipping Containers from Analytical Laboratory.....	_____	____
6.	Review Site Specific Field Sampling Manual.....	_____	____
7.	Review Sampling Procedures with Project Team.....	_____	____
8.	Identify Quality Assurance Samples and Locations.....	_____	____

_____
Team Leader Date

method to be utilized is provided as Table 2. Sample containers will consist of 8 oz glass jars. The anticipated number of sampling sites, parameters to be measured at each site as well as the number of extra bottles needed for quality assurance testing will be specified to the analytical laboratory so that the proper number of bottles and shipping containers are prepared. The analytical laboratory will use methods specified in EPA SW-846.

1.2.2 The Team Leader will assure that all necessary equipment is assembled. A checklist to be used for assembling equipment is included as Table 3. The equipment checklist will be completed and signed by the Team Leader in preparation for the sampling event.

1.2.3 All equipment to be utilized during the sampling will be examined to certify that it is in operating condition. Field notes from previous sampling trips will be reviewed so that any prior equipment problem notations are not overlooked and to determine that all necessary repairs to equipment have been carried out.

1.2.4 The Team Leader will assemble all necessary forms including the field log, field punch list, chain of custody sheet and sample analyses request. The field log will be used to record

Table 2

APPENDIX IX—GROUND-WATER MONITORING LIST [1]

[Appendix IX added by 52 FR 25946, July 9, 1987]

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (µg/L) [6]
Acenaphthene	83-32-9	Acenaphthylene, 1,2-dihydro-	8100	200
			8270	10
Acenaphthylene	208-96-8	Acenaphthylene	8100	200
			8270	10
Acetone	67-64-1	2-Propanone	8240	100
Acetophenone	98-86-2	Ethanone, 1-phenyl-	8270	10
Acetonitrile; Methyl cyanide	75-05-8	Acetonitrile	8015	100
2-Acetylaminofluorene; 2-AAF	53-96-3	Acetamide, N-9H-fluoren-2-yl-	8270	10
Acrolein	107-02-8	2-Propenal	8030	5
			8240	5
Acrylonitrile	107-13-1	2-Propenenitrile	8030	5
			8240	5
Aldrin	309-00-2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro- (1α,4α,4aβ,5α,8α,8aβ)-	8080	0.05
			8270	10
Allyl chloride	107-05-1	1-Propene, 3-chloro-	8010	5
			8240	100
4-Aminobiphenyl	92-67-1	[1,1'-Biphenyl]-4-amine	8270	10
Aniline	62-53-3	Benzenamine	8270	10
Anthracene	120-12-7	Anthracene	8100	200
			8270	10
Antimony	(Total)	Antimony	6010	300
			7040	2,000
			7041	30
Aramite	140-57-8	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	8270	10
Arsenic	(Total)	Arsenic	6010	500
			7060	10
			7061	20
Barium	(Total)	Barium	6010	20
			7080	1,000
Benzene	71-43-2	Benzene	8020	2
			8240	5

APPENDIX IX—GROUND-WATER MONITORING LIST [1]—Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (μg/L) [6]
Benzo[a]anthracene; Benzanthracene	56-55-3	Benz[a]anthracene	8100	200
			8270	10
Benzo[b]fluoranthene	205-99-2	Benz[e]acephenanthrylene	8100	200
			8270	10
Benzo[k]fluoranthene	207-08-9	Benzo[k]fluoranthene	8100	200
			8270	10
Benzo[ghi]perylene	191-24-2	Benzo[ghi]perylene	8100	200
			8270	10
Benzo[a]pyrene	50-32-8	Benzo[a]pyrene	8100	200
			8270	10
Benzyl alcohol	100-51-6	Benzenemethanol	8270	20
Beryllium	(Total)	Beryllium	6010	3
			7090	50
			7091	2
alpha-BHC	319-84-6	Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1α,2α,3β,4α,5β,6β)-	8080	0.05
			8250	10
beta-BHC	319-85-7	Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1α,2β,3α,4β,5α,6β)-	8080	0.05
			8250	40
delta-BHC	319-86-8	Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1α,2α 3α,4β,5α,6β)-	8080	0.1
			8250	30
gamma-BHC; Lindane	58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1α,2α,3β,4α,5α,6β)-	8080	0.05
			8250	10
Bis(2-chloroethoxy)methane	111-91-1	Ethane, 1,1'-[methylenebis (oxy)]bis[2-chloro-	8270	10
Bis(2-chloroethyl)ether	111-44-4	Ethane, 1,1'-oxybis[2-chloro-	8270	10
Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisopropyl ether	108-60-1	Propane, 2,2'-oxybis[1-chloro-	8010	100
			8270	10
Bis(2-ethylhexyl) phthalate	117-81-7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester	8060	20
			8270	10
Bromodichloromethane	75-27-4	Methane, bromodichloro-	8010	1
			8240	5
Bromoform; Tribromomethane	75-25-2	Methane, tribromo-	8010	2
			8240	5
4-Bromophenyl phenyl ether	101-55-3	Benzene, 1-bromo-4-phenoxy-	8270	10
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68-7	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester	8060	5
			8270	10
Cadmium	(Total)	Cadmium	6010	40
			7130	50
			7131	1
Carbon disulfide	75-15-0	Carbon disulfide	8240	5
Carbon tetrachloride	56-23-5	Methane, tetrachloro-	8010	1
			8240	5
Chlordane	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	8080	0.1
			8250	10
p-Chloroaniline	106-47-8	Benzenamine, 4-chloro-	8270	20
Chlorobenzene	108-90-7	Benzene, chloro-	8010	2
			8020	2
			8240	5
Chlorobenzilate	510-15-6	Benzeneacetic acid, 4-chloro-α-(4-chlorophenyl)-α-hydroxy-ethyl ester	8270	10
p-Chloro-m-cresol	59-50-7	Phenol, 4-chloro-3-methyl-	8040	5
			8270	20
Chloroethane; Ethyl chloride	75-00-3	Ethane, chloro-	8010	5
			8240	10
Chloroform	67-66-3	Methane, trichloro-	8010	0.5
			8240	5
2-Chloronaphthalene	91-58-7	Naphthalene, 2-chloro-	8120	10
			8270	10
2-Chlorophenol	95-57-8	Phenol, 2-chloro-	8040	5
			8270	10

APPENDIX IX—GROUND-WATER MONITORING LIST [1]—Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (µg/L) [6]
4-Chlorophenyl phenyl ether	7005-72-3	Benzene, 1-chloro-4-phenoxy-	8270	10
Chloroprene	126-99-8	1,3-Butadiene, 2-chloro-	8010	50
			8240	5
Chromium	(Total)	Chromium	6010	70
			7190	500
			7191	10
Chrysene	218-01-9	Chrysene	8100	200
			8270	10
Cobalt	(Total)	Cobalt	6010	70
			7200	500
			7201	10
Copper	(Total)	Copper	6010	60
			7210	200
m-Cresol	108-39-4	Phenol, 3-methyl-	8270	10
o-Cresol	95-48-7	Phenol, 2-methyl-	8270	10
p-Cresol	106-44-5	Phenol, 4-methyl-	8270	10
Cyanide	57-12-5	Cyanide	9010	40
2,4-D; 2,4-Dichlorophenoxyacetic acid	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-	8150	10
4,4'-DDD	72-54-8	Benzene 1,1'-(2,2-dichloroethylidene)bis[4-chloro-	8080	0.1
			8270	10
4,4'-DDE	72-55-9	Benzene 1,1'-(dichloroethylidene)bis[4-chloro-	8080	0.05
			8270	10
4,4'-DDT	50-29-3	Benzene 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-	8080	0.1
			8270	10
Diallate	2303-16-4	Carbamothioic acid, bis(1-methylethyl)- , S- (2,3-dichloro-2-propenyl) ester	8270	10
Dibenz[a,h]anthracene	53-70-3	Dibenz[a,h]anthracene	8100	200
			8270	10
Dibenzofuran	132-64-9	Dibenzofuran	8270	10
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro-	8010	1
			8240	5
1,2-Dibromo-3-chloropropane; DBCP	96-12-8	Propane, 1,2-dibromo-3-chloro-	8010	100
			8240	5
			8270	10
1,2-Dibromoethane; Ethylene dibromide	106-93-4	Ethane, 1,2-dibromo-	8010	10
			8240	5
Di-n-butyl phthalate	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	8060	5
			8270	10
o-Dichlorobenzene	95-50-1	Benzene, 1,2-dichloro-	8010	2
			8020	5
			8120	10
			8270	10
m-Dichlorobenzene	541-73-1	Benzene, 1,3-dichloro-	8010	5
			8020	5
			8120	10
			8270	10
p-Dichlorobenzene	106-46-7	Benzene, 1,4-dichloro-	8010	2
			8020	5
			8120	15
			8270	10
3,3'-Dichlorobenzidine	91-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-	8270	20
trans-1,4-Dichloro-2-butene	110-57-6	2-Butene, 1,4-dichloro-, (E)-	8240	5
Dichlorodifluoromethane	75-71-8	Methane, dichlorodifluoro-	8010	10
			8240	5
1,1-Dichloroethane	75-34-3	Ethane, 1,1-dichloro-	8010	1
			8240	5
1,2-Dichloroethane; Ethylene dichloride	107-06-2	Ethane, 1,2-dichloro-	8010	0.5
			8240	5

APPENDIX IX—GROUND-WATER MONITORING LIST [1]—Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (µg/L) [6]
1,1-Dichloroethylene; Vinylidene chloride	75-35-4	Ethene, 1,1-dicnloro-	8010	1
			8240	5
trans-1,2-Dichloroethylene	156-60-5	Ethene, 1,2-dichloro-, (E)-	8010	1
			8240	5
2,4-Dichlorophenol	120-83-2	Phenol, 2,4-dichloro-	8040	5
			8270	10
2,6-Dichlorophenol	87-65-0	Phenol, 2,6-dichloro-	8270	10
1,2-Dichloropropane	78-87-5	Propane, 1,2-dichloro-	8010	0.5
			8240	5
cis-1,3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-	8010	20
			8240	5
trans-1,3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-	8010	5
			8240	5
Dieldrin	60-57-1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aα,2β,2aα,3β,6β,6aα,7β,7aα)-	8080	0.05
			8270	10
Diethyl phthalate	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester	8060	5
			8270	10
O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester	8270	10
Dimethoate	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester	8270	10
p-(Dimethylamino)azobenzene	60-11-7	Benzenamine, N,N-dimethyl-4-(phenylazo)-	8270	10
7,12-Dimethylbenz[a]anthracene	57-97-6	Benz[a]anthracene, 7,12-dimethyl-	8270	10
3,3'-Dimethylbenzidine	119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	8270	10
alpha, alpha-Dimethylphenethylamine	122-09-8	Benzeneethanamine, α,α-dimethyl-	8270	10
2,4-Dimethylphenol	105-67-9	Phenol, 2,4-dimethyl-	8040	5
			8270	10
Dimethyl phthalate	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester	8060	5
			8270	10
m-Dinitrobenzene	99-65-0	Benzene, 1,3-dinitro-	8270	10
4,6-Dinitro-o-cresol	534-52-1	Phenol, 2-methyl-4,6-dinitro-	8040	150
			8270	50
2,4-Dinitrophenol	51-28-5	Phenol, 2,4-dinitro-	8040	150
			8270	50
2,4-Dinitrotoluene	121-14-2	Benzene, 1-methyl-2,4-dinitro-	8090	0.2
			8270	10
2,6-Dinitrotoluene	606-20-2	Benzene, 2-methyl-1,3-dinitro-	8090	0.1
			8270	10
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-	8150	1
			8270	10
Di-n-octyl phthalate	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester	8060	30
			8270	10
1,4-Dioxane	123-91-1	1,4-Dioxane	8015	150
Diphenylamine	122-39-4	Benzenamine, N-phenyl-	8270	10
Disulfoton	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)- S-[2-ethyl]ester	8140	2
			8270	10
Endosulfan I	959-98-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3α,5aβ,6α,9α,9aβ)-	8080	0.1
			8250	10
Endosulfan II	33213-65-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3α,5aα,6β,9β,9aα)-	8080	0.05
Endosulfan sulfate	1031-07-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-, 3,3-dioxide.	8080	0.5
			8270	10
Endrin	72-20-8	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aα,2β,2aβ,3α,6α, 6aβ,7β,7aα)-	8080	0.1
			8250	10
Endrin aldehyde	7421-93-4	1,2,4-Methenocyclopenta[cd]pentalene-5-carboxaldehyde, 2,2a,3,3,4,7-hexachlorodecahydro-, (1α,2β,2aβ,4β,4aβ,5β,6aβ,6bβ,7R*)-	8080	0.2
			8270	10

APPENDIX IX—GROUND-WATER MONITORING LIST [1]—Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (µg/L) [6]
Ethylbenzene	100-41-4	Benzene, ethyl-	8020	2
			8240	5
Ethyl methacrylate	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester	8015	10
			8240	5
			8270	10
Ethyl methanesulfonate	62-50-0	Methanesulfonic acid, ethyl ester	8270	10
Famphur	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl]-O,O-dimethyl ester	8270	10
Fluoranthene	206-44-0	Fluoranthene	8100	200
			8270	10
Fluorene	86-73-7	9H-Fluorene	8100	200
			8270	10
Heptachlor	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	8080	0.05
			8270	10
Heptachlor epoxide	1024-57-3	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a,-hexahydro-, (1aα,1bβ,2α,5α,5aβ,6β,6aα)	8080	1
			8270	10
Hexachlorobenzene	118-74-1	Benzene, hexachloro-	8120	0.5
			8270	10
Hexachlorobutadiene	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	8120	5
			8270	10
Hexachlorocyclopentadiene	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	8120	5
			8270	10
Hexachloroethane	67-72-1	Ethane, hexachloro-	8120	0.5
			8270	10
Hexachlorophene	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	8270	10
Hexachloropropene	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	8270	10
2-Hexanone	591-78-6	2-Hexanone	8240	50
Indeno(1,2,3-cd)pyrene	193-39-5	Indeno[1,2,3-cd]pyrene	8100	200
			8270	10
Isobutyl alcohol	78-83-1	1-Propanol, 2-methyl-	8015	50
Isodrin	465-73-6	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a hexahydro-(1α,4α,4aβ,5β,8β,8aβ)-	8270	10
Isophorone	78-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl-	8090	60
			8270	10
Isosafrole	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-	8270	10
Kepone	143-50-0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-	8270	10
Lead	(Total)	Lead	6010	40
			7420	1,000
			7421	10
Mercury	(Total)	Mercury	7470	2
Methacrylonitrile	126-98-7	2-Propenenitrile, 2-methyl-	8015	5
			8240	5
Methapyrilene	91-80-5	1,2,Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-	8270	10
Methoxychlor	72-43-5	Benzene, 1,1'-(2,2,2,trichloroethylidene)bis[4-methoxy-	8080	2
			8270	10
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-	8010	20
			8240	10
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-	8010	1
			8240	10
3-Methylcholanthrene	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-	8270	10
Methylene bromide; Dibromomethane	74-95-3	Methane, dibromo-	8010	15
			8240	5
Methylene chloride; Dichloromethane	75-09-2	Methane, dichloro-	8010	5
			8240	5

APPENDIX IX—GROUND-WATER MONITORING LIST [1]—Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	POL (µg/L) [6]
Methyl ethyl ketone; MEK	78-93-3	2-Butanone	8015	10
			8240	100
Methyl iodide; Iodomethane	74-88-4	Methane, iodo-	8010	40
			8240	5
Methyl methacrylate	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester	8015	2
			8240	5
Methyl methanesulfonate	66-27-3	Methanesulfonic acid, methyl ester	8270	10
2-Methylnaphthalene	91-57-6	Naphthalene, 2-methyl-	8270	10
Methyl parathion; Parathion methyl	298-00-0	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	8140	0.5
			8270	10
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-	8015	5
			8240	50
Naphthalene	91-20-3	Naphthalene	8100	200
			8270	10
1,4-Naphthoquinone	130-15-4	1,4-Naphthalenedione	8270	10
1-Naphthylamine	134-32-7	1-Naphthalenamine	8270	10
2-Naphthylamine	91-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010	50
			7520	400
o-Nitroaniline	88-74-4	Benzenamine, 2-nitro-	8270	50
m-Nitroaniline	99-09-2	Benzenamine, 3-nitro-	8270	50
p-Nitroaniline	100-01-6	Benzenamine, 4-nitro-	8270	50
Nitrobenzene	98-95-3	Benzene, nitro-	8090	40
			8270	10
o-Nitrophenol	88-75-5	Phenol, 2-nitro-	8040	5
			8270	10
p-Nitrophenol	100-02-7	Phenol, 4-nitro-	8040	10
			8270	50
4-Nitroquinoline 1-oxide	56-57-5	Quinoline, 4-nitro-, 1-oxide	8270	10
N-Nitrosodi-n-butylamine	924-16-3	1-Butanamine, N-butyl-N-nitroso-	8270	10
N-Nitrosodiethylamine	55-18-5	Ethanamine, N-ethyl-N-nitroso-	8270	10
N-Nitrosodimethylamine	62-75-9	Methanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosodiphenylamine	86-30-6	Benzenamine, N-nitroso-N-phenyl-	8270	10
N-Nitrosodipropylamine; Di-n-propylnitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl-	8270	10
N-Nitrosomethylethylamine	10595-95-6	Ethanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosomorpholine	59-89-2	Morpholine, 4-nitroso-	8270	10
N-Nitrosopiperidine	100-75-4	Piperidine, 1-nitroso-	8270	10
N-Nitrosopyrrolidine	930-55-2	Pyrrolidine, 1-nitroso-	8270	10
5-Nitro-o-toluidine	99-55-8	Benzenamine, 2-methyl-5-nitro-	8270	10
Parathion	56-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	8270	10
Polychlorinated biphenyls; PCBs	See Note 7	1,1'-Biphenyl, chloro derivatives	8080	50
			8250	100
Polychlorinated dibenzo-p-dioxins; PCDDs	See Note 8	Dibenzo[b,e][1,4]dioxin, chloro derivatives	8280	0.01
Polychlorinated dibenzofurans; PCDFs	See Note 9	Dibenzofuran, chloro derivatives	8280	0.01
Pentachlorobenzene	608-93-5	Benzene, pentachloro-	8270	10
Pentachloroethane	76-01-7	Ethane, pentachloro-	8240	5
			8270	10
Pentachloronitrobenzene	82-68-8	Benzene, pentachloronitro-	8270	10
Pentachlorophenol	87-86-5	Phenol, pentachloro-	8040	5
			8270	50
Phenacetin	62-44-2	Acetamide, N-(4-ethoxyphenyl)	8270	10
Phenanthrene	85-01-8	Phenanthrene	8100	200
			8270	10
Phenol	108-95-2	Phenol	8040	1
			8270	10
p-Phenylenediamine	106-50-3	1,4-Benzenediamine	8270	10
Phorate	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	8140	2
			8270	10

Table 2 (Continued)

APPENDIX IX—GROUND-WATER MONITORING LIST [1] – Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (µg/L) [6]
2-Picoline	109-06-8	Pyridine, 2-methyl-	8240	5
			8270	10
Pronamide	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	8270	10
Propionitrile; Ethyl cyanide	107-12-0	Propanenitrile	8015	60
			8240	5
Pyrene	129-00-0	Pyrene	8100	200
			8270	10
Pyridine	110-86-1	Pyridine	8240	5
Safrole	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	8270	10
Selenium	(Total)	Selenium	6010	750
			7740	20
			7741	20
Silver	(Total)	Silver	6010	70
			7760	100
Silvex; 2,4,5-TP	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	8150	2
Styrene	100-42-5	Benzene, ethenyl-	8020	1
			8240	5
Sulfide	18496-25-8	Sulfide	9030	10,000
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-	8150	2
2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-	8280	0.005
1,2,4,5-Tetrachlorobenzene	95-94-3	Benzene, 1,2,4,5-tetrachloro-	8270	10
1,1,1,2-Tetrachloroethane	630-20-6	Ethane, 1,1,1,2-tetrachloro-	8010	5
			8240	5
1,1,2,2-Tetrachloroethane	79-34-5	Ethane, 1,1,2,2-tetrachloro-	8010	0.5
			8240	5
Tetrachloroethylene; Perchloroethylene; Tetrachloroethene	127-18-4	Ethene, tetrachloro-	8010	0.5
			8240	5
2,3,4,6-Tetrachlorophenol	58-90-2	Phenol, 2,3,4,6-tetrachloro-	8270	10
Tetraethyl dithiopyrophosphate; Sulfotepp	3689-24-5	Thiodiphosphoric acid ([(HO)$_2$P(S)]$_2$O), tetraethyl ester	8270	10
Thallium	(Total)	Thallium	6010	400
			7840	1,000
			7841	10
Tin	(Total)	Tin	7870	8,000
Toluene	108-88-3	Benzene, methyl-	8020	2
			8240	5
o-Toluidine	95-53-4	Benzenamine, 2-methyl-	8270	10
Toxaphene	8001-35-2	Toxaphene	8080	2
			8250	10
1,2,4-Trichlorobenzene	120-82-1	Benzene, 1,2,4-trichloro-	8270	10
1,1,1-Trichloroethane; Methylchloroform	71-55-6	Ethane, 1,1,1-trichloro-	8240	5
1,1,2-Trichloroethane	79-00-5	Ethane, 1,1,2-trichloro-	8010	0.2
			8240	5
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-	8010	1
			8240	5
Trichlorofluoromethane	75-69-4	Methane, trichlorofluoro-	8010	10
			8240	5
2,4,5-Trichlorophenol	95-95-4	Phenol, 2,4,5-trichloro-	8270	10
2,4,6-Trichlorophenol	88-06-2	Phenol, 2,4,6-trichloro-	8040	5
			8270	10
1,2,3-Trichloropropane	96-18-4	Propane, 1,2,3-trichloro-	8010	10
			8240	5
O,O,O-Triethyl phosphorothioate	126-68-1	Phosphorothioic acid, O,O,O-triethyl ester	8270	10
sym-Trinitrobenzene	99-35-4	Benzene, 1,3,5-trinitro-	8270	10
Vanadium	(Total)	Vanadium	6010	80
			7910	2,000
			7911	40

APPENDIX IX—GROUND-WATER MONITORING LIST [1]—Continued

Common name [2]	CAS RN [3]	Chemical abstracts service index name [4]	Suggested methods [5]	PQL (µg/L) [6]
Vinyl acetate	108-05-4	Acetic acid, ethenyl ester	8240	5
Vinyl chloride	75-01-4	Ethene, chloro-	8010	2
			8240	10
Xylene (total)	1330-20-7	Benzene, dimethyl-	8020	5
			8240	5
Zinc	(Total)	Zinc	6010	20
			7950	50

[1] The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.

[2] Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

[3] Chemical Abstracts Service registry number. Where "Total" is entered, all species in the ground water that contain this element are included.

[4] CAS index names are those used in the 9th Cumulative Index.

[5] Suggested Methods refer to analytical procedure numbers used in EPA Report SW-846 "Test Methods for Evaluating Solid Waste", third edition, November 1986. Analytical details can be found in SW-846 and in documentation on file at the agency. CAUTION: The methods listed are representative SW-846 procedures and may not always be the most suitable method(s) for monitoring an analyte under the regulations.

[6] Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in ground waters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. CAUTION: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

[7] Polychlorinated biphenyls (CAS RN 1336-36-3); this category contains congener chemicals, including constituents of Aroclor-1016 (CAS RN 12674-11-2), Aroclor-1221 (CAS RN 11104-28-2), Aroclor-1232 (CAS RN 11141-16-5), Aroclor-1242 (CAS RN 53469-21-9), Aroclor-1248 (CAS RN 12672-29-6), Aroclor-1254 (CAS RN 11097-69-1), and Aroclor-1260 (CAS RN 11096-82-5). The PQL shown is an average value for PCB congeners.

[8] This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins, and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners.

[9] This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans, and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners.

TABLE 3

SAMPLING EQUIPMENT CHECKLIST
FOR PHILIPS - SENECA FALLS, NEW YORK; RCRA SOIL SAMPLING

SAMPLING AND TESTING EQUIPMENT

Out	In	
___	___	Ground Plastic
___	___	Stainless Steel Putty Knife

STATIONERY SUPPLIES

___	___	Field Log Forms (12)
___	___	Field Punch List (1)
___	___	Chain of Custody Forms
___	___	Analyses Request Sheets
___	___	Project Site Maps
___	___	Plastic Leakproof Bags

MISCELLANEOUS

___	___	Tyvek Coveralls (4 Pair)
___	___	Gloves (Nitrile)
___	___	Custody Seals (30)
___	___	Permanent Ink Markers (3)
___	___	Rubber Boots
___	___	Ice (obtain near site)
___	___	Distilled Water (5 gal. minimum to start - obtain more near site as necessary)
___	___	Nitric Acid (5%) Rinse (2 botles)
___	___	Personnel Protective Equipment

_____ _____
Team Leader Date

field data measurements and observations. It serves as the permanent record of all events occurring during the sampling trip. Entries onto the log will be made in waterproof ink. Information recorded at each sampling site shall, at a minimum, contain the following details:

a. Sampling date and time
b. Sampling location and identification number
c. Names of field crew present at the site
d. Sampling withdrawal procedure/observations
e. Collection of quality assurance/control samples (equipment/trip blank).
f. Types of sample containers used and preservation method employed.

The Field Activities Punch List is to be used to record new developments at the facility, note observations and sampling problems and serve as an agenda for future discussions. The Field Activities Punch List form is provided as Table 4. A copy of this completed form shall be retained by the Team Leader and the original placed in the project files.

The chain-of-custody form documents specific details concerning numbers and types of bottles obtained for each sample; sample preservation details; scheduling and personnel involved; and custody details. This form is provided in Figure 1. The original accompanies the samples from the time sampling occurs through completion of analyses. This original is to be immediately

TABLE 4

FIELD ACTIVITIES PUNCH LIST
RCRA GROUNDWATER SAMPLING

SAMPLING DATES: October 17 & 18

_____ 1. Site Weather Conditions (Record in Field Log Book)

_____ 2. Changes in Operation Since Last Visit

_____ 3. Site Conditions During Sampling

_____ 4. Problems Encountered During Sampling

_____ 5. Any Observations or Remarks Concerning Site Visit

_____ _____
Team Leader Date

Chain of Custody Record

Client: _____

Project Name: _____

Charge Number: _____

Sampler Name(s):

TheChesterEngineers
P.O. Box 9356
Pittsburgh
Pennsylvania 15225-0356
(412) 269-5700

Sheet of

Field Sample I.D. No.	Lab Sample I.D. No.	Sampled		Sample Storage and Preservation Details*											
				Cooling		HNO_3		H_2SO_4 Cooling		Other		Other		Other	
		Date	Time	No. of Containers	Type/Volume Container	No. of Containers	Type/Volume Container	No. of Containers	Type/Volume Container	No. of Containers	Type/Volume Container	No. of Containers	Type/Volume Container	No. of Containers	Type/Volume Container

General Remarks:

NOTES: Record type of container used with abbreviation P (plastic) or G (glass)
Record volume of container in liters

Relinquished By (Sign): Date: Time: Remarks:	Received By (Sign): Date: Time: Remarks:
Relinquished By (Sign): Date: Time: Remarks:	Received By (Sign): Date: Time: Remarks:
Relinquished By (Sign): Date: Time: Remarks:	Received By (Sign): Date: Time: Remarks:
Relinquished By (Sign): Date: Time: Remarks:	Received By (Sign): Date: Time: Remarks:

Distribution:
Original - Sent with samples to lab (return with lab results to Project Manager for filing)
Copy - Retained by sampling personnel for filing

Figure 1

returned by the laboratory to the Team Leader for inclusion into the project files. A copy is retained by the Team Leader after relinquishing samples to laboratory personnel. The sample analyses request sheet (Figure 2) is submitted to the laboratory with the chain-of-custody sheet as a check against arrangements made prior to the sampling event. A copy of this form is retained by the Team Leader.

1.2.5 The arrangement of sample bottle and shipping container delivery with the analytical laboratory shall be made such that sufficient time to correct errors or request additional containers can be made prior to departure for the sampling trip. Once sample bottles and shipping containers are received, it is the responsibility of the Team Leader to check that the proper number and type of containers have been supplied.

1.2.6 To avoid unnecessary delays in the field and serve as a check on the completeness of the sample containers, bottles are to be prelabeled by the laboratory. Sample bottle labelling will be accomplished using pre-printed sticky-back labels. The only information that will be given on the label will be the company's name and a sample number. The site and test boring numbers will not be identified. Prior to the sampling trip, labels will be marked and taped over with clear tape to prevent the label from peeling off due to contact with water and ice in coolers. The field log will contain the cross-reference of sample number

Sample Analysis Request

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Sample ID Number	pH	TOC	TOX	Specific Conductance	Chloride	Sulfate	Iron	Manganese	Sodium	Phenolics	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	Fluoride	Nitrate (as N)	Endrin	Lindane	Methoxychlor	Toxaphene	2, 4-D	2, 4, 5-TP Silvex	Radium	Gross Alpha	Gross Beta	Total Coliforms	Alkalinity	Total Dissolved Solids	Ammonia Nitrogen	Chemical Oxygen Demand	Nickel	Copper	Zinc	Cyanides	Priority Poll. Volatiles	Priority Poll. B/N Ext.	Priority Poll. Acid Ext.							Sample Specific Comments
Desired Detection Levels																																																
General Comments																																															

Please return this form with the custody sheets to _____.

Figure 2

versus soil test boring number and sample depth. The chain-of-custody form will contain details of sample collection (time and date).

1.2.7 One day before the scheduled sampling, the Team Leader shall meet with the field sampling crew and review requirements of this sampling and analysis plan and sampling procedures. Prior to this meeting, the Team Leader shall review previous sampling trips and identify areas of concern or techniques to be utilized at the site.

1.2.8 It shall be the responsibility of the Team Leader to select and maintain records of quality control samples taken during the course of the sampling program. It will be his responsibility to see that the proper bottles are assembled and quality control sampling is implemented in the field.

2.0 ON-SITE ACTIVITIES

2.1 Summary of Tasks to be Performed

The procedures for soil sample collection are summarized below. All field measurements and observations will be entered into the field log book while at each sample location.

2.2 Soil Test Borings

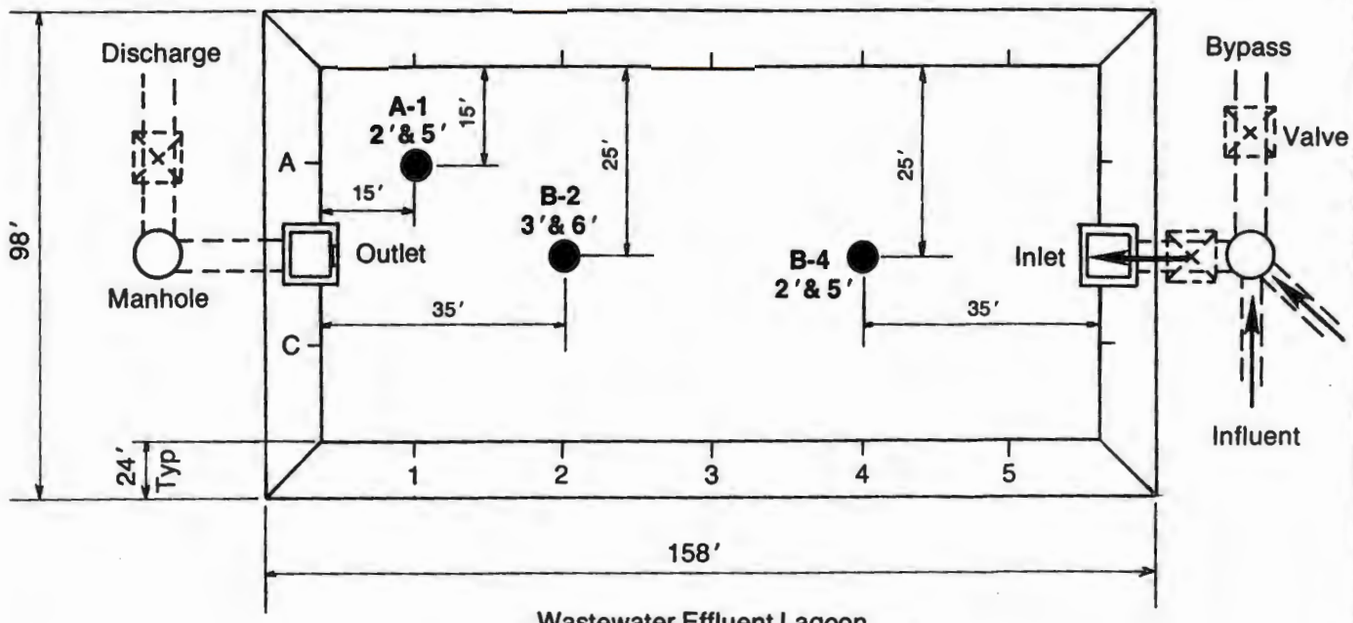
2.1.1 Soil Test Boring Locations

Five soil test borings will be conducted in the abandoned hazardous waste management units (Figure 3). One soil test boring will be conducted in the area immediately east of the concrete pad that held the incinerator tanks (Figure 3). Two soil test borings will be conducted in the area of monitoring wells MW-4 and MW-7, downgradient of the hazardous waste management units (Figure 4).

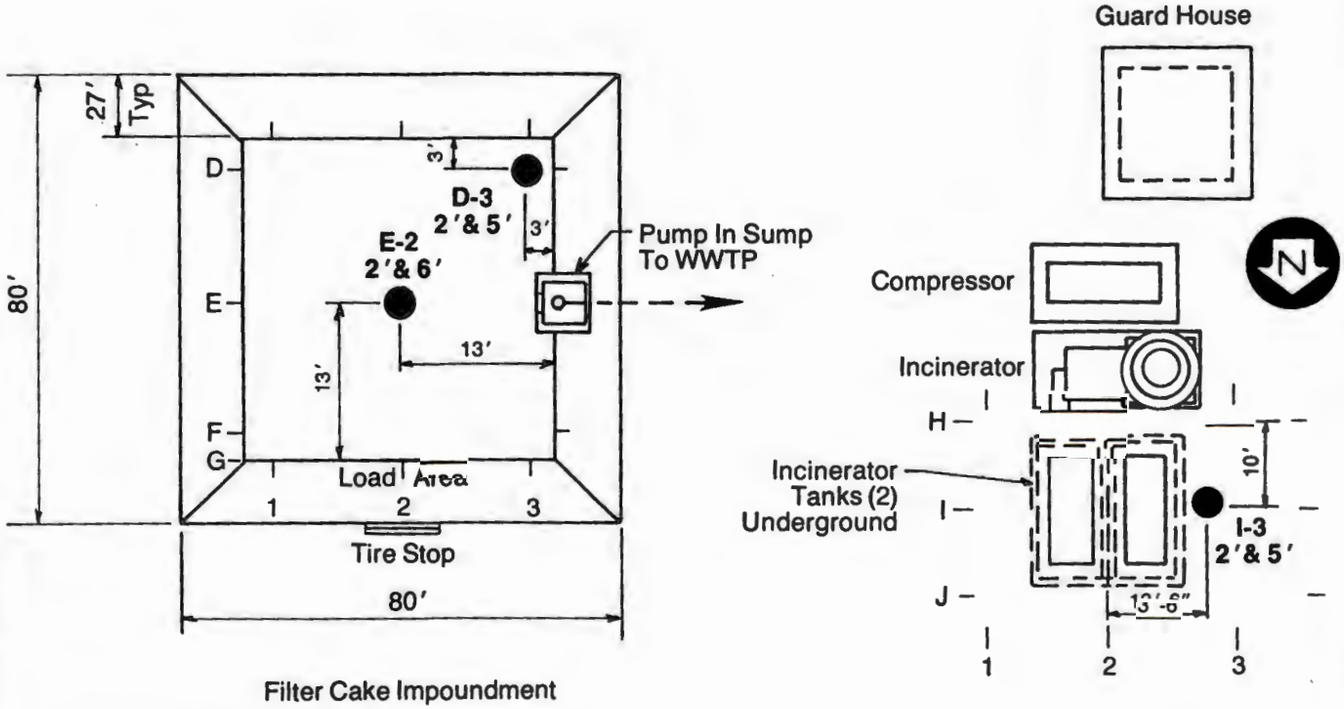
2.2.2 Sample Locations

Sample locations are indicated on Figures 3 and 4. Samples will be collected as indicated in the following table:

Location (Figures 3 & 4)	Sample Level
A-1	2 feet, 5 feet
B-2	2 feet, 6 feet
B-4	2 feet, 5 feet
D-3	2 feet, 5 feet
E-2	3 feet, 6 feet

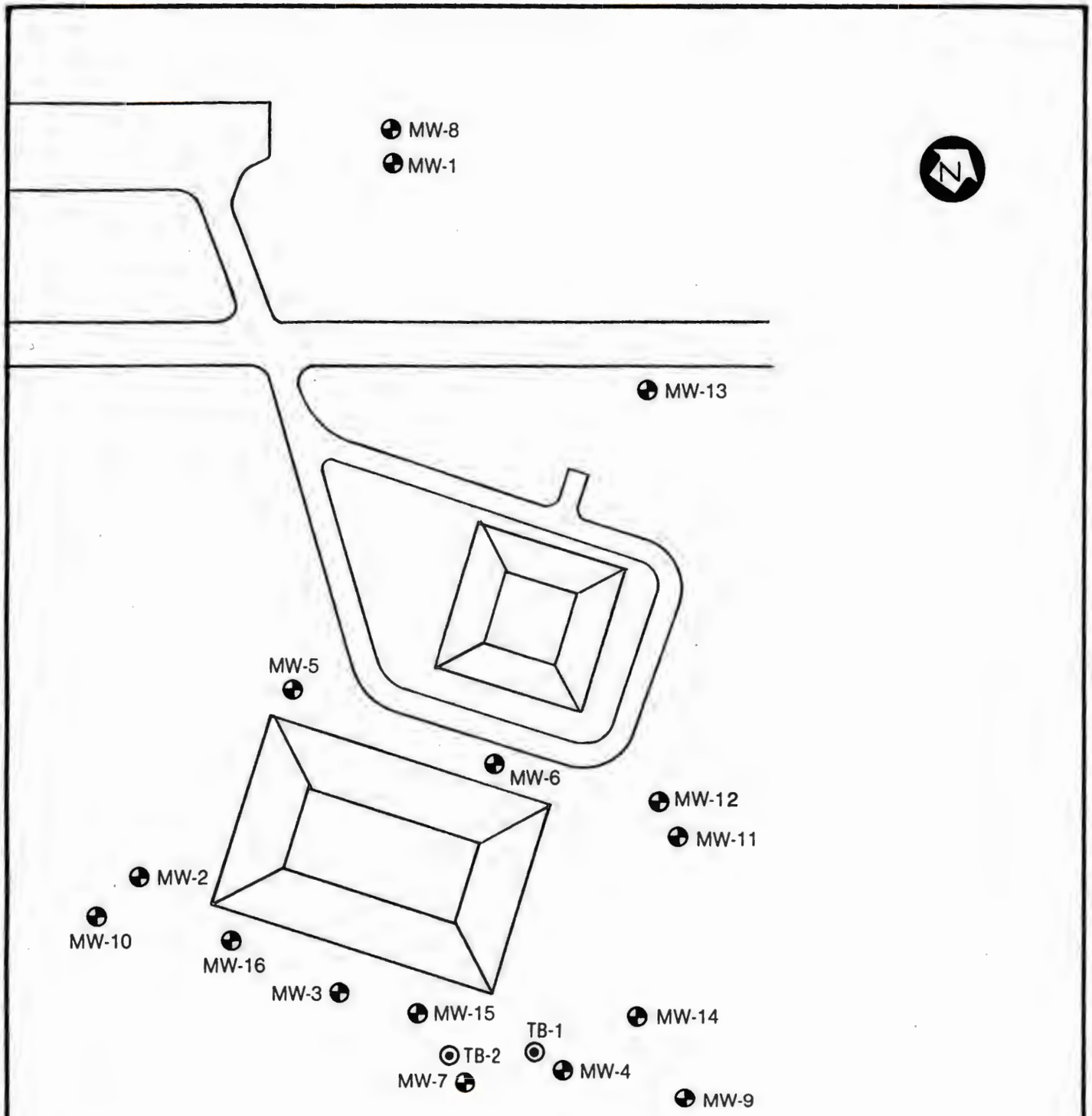


Wastewater Effluent Lagoon
SPDES Discharge Permit NY0001228



Filter Cake Impoundment

TheChesterEngineers			SHEET NO.	Philips Display Components Corporation Seneca Falls, New York Soil Sampling Grid Diagrams
DWN.BY: JS	SCALE: NTS	DATE September 1988	DWG. NO. Figure 3	
CHK'D.BY: JP	APPR.BY:			



TheChesterEngineers			SHEET NO.	Philips Display Components Corporation Seneca Falls, New York Present Monitoring Well System (MW-1 - MW-16) and Proposed Locations for Soil Test Borings
DWN.BY: JS	SCALE: NTS	DATE September 1988	DWG. NO. Figure 4	
CHK'D.BY:	APPR.BY:			

Location (Figures 3 & 4)	Sample Level
Incinerator tanks (east of concrete pad)	2 feet, 5 feet
TB-1	split-spoon taken immediately prior to refusal
TB-2	split-spoon taken immediately prior to refusal

Ten samples will be collected in the area of the abandoned hazardous waste management units, two in each soil test boring conducted in this area. Two samples will be collected near the underground incinerator storage tanks, at depths of 2 and 5 feet. Two samples will be collected downgradient of the abandoned hazardous waste management units near MW-4 and MW-7.

2.2.3 Soil Test Boring Procedures

Soil test borings TB-1 and TB-2 shall be conducted utilizing continuous split-spoon sampling (stainless steel samplers) followed by hollow-stem augering according to ASTM:1586-84 utilizing an All Terrain Vehicle supplied by Catoh Drilling Company.

Soil test borings in the area of the hazardous waste management units and at the incinerator tank pad shall be conducted utilizing continuous split-spoon sampling (stainless steel samplers) driven utilizing a tripod unit supplied by Catoh Drilling Company.

2.3 Test Boring Logging

Each borehole will be logged by the rig geologist as the boring is advanced. Boring logs (Figure 5) will be prepared according to standard operating procedues.

2.4 Collection of Samples

Soil samples for Appendix IX analyses will be collected from the appropriate split-spoon sampler at the locations and depths indicated in Section 2.2.2. Each soil sample shall be bisected lengthwise upon removal of the sample from the split-spoon sampler. The sample shall be collected by scooping material from the center one half of the bisected core, taking care to avoid collecting material from the outer edges of the core. The other half of the sample shall be used for visual inspection or saved for analysis depending upon the recovery of the particular sampler.

2.5 Decontamination Procedures

Between samples used only for visual logging, the stainless steel split-spoon samplers shall be decontaminated utilizing a nonphosphate detergent wash followed by a potable water rinse. Between samples collected for Appendix IX analyses, the stainless steel samplers will be decontaminated utilizing the nonphosphate detergent wash, followed by steam cleaning.

2.6 Quality Assurance/Quality Control

A trip/equipment blank will be taken to assure quality control. The equipment/trip blank will be prepared at

BORING LOG

PROJECT	JOB NO.	SHEET NO.	HOLE NO.

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT.)

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	PENETRATION BLOWS 2nd 6"	PENETRATION BLOWS 3rd 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.

SS = SPLIT SPOON; ST = SHELBY TUBE;
D = DENNISON; P = PITCHER; O = OTHER

SITE	HOLE NO.

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Figure 5

the site and returned to the ChesterLab for analysis. Following standard equipment cleaning procedures, the split-spoon sampler will be filled with deionized water and poured into an 8-oz sample container. The blank will be returned with the samples. The blank will be analyzed for the Appendix IX parameters as indicated in Table 2.

2.7 Records

A field logbook shall be maintained to provide an accurate record of each sampling event. A field logbook should document the following:

* Identification of sampling location
* Sample depth
* Sample withdrawal procedure/equipment
* Date and time of collection
* Soil sampling sequence
* Types of sample containers used and sample identification numbers
* Preservation method used
* Parameters requested for analysis
* Sample distribution and transporter
* Field observations on sampling event
* Name of collector
* Climatic conditions including air temperature
* Internal temperature of field and shipping (refrigerated) containers

To properly account for all samples, each individual sample will be given a distinct and different sample identification number. The sample number shall be

affixed to the sample container and documented on the field log and chain of custody record.

A complete chain-of-custody record will be maintained to document the possession of samples from the time the field sampling team is issued bottleware through analysis. A sample analysis request and chain-of-custody form will be placed and sealed in a large plastic bag to prevent water damage, and placed with the samples inside the cooler. The chain-of-custody form will always be accompanied by an analysis request sheet.

Coolers containing samples must be sealed with a custody seal when not in the immediate possession of field personnel or secured in locked storage. Custody seals are shown in Figure 6. Signed custody seals should be affixed to both ends of the cooler in such a manner that they must be removed or broken in order to open the cooler. This can be accomplished by affixing one custody seal to the front of the cooler, covering the space between the cooler's body and the lid. Another seal is affixed to the other side of the cooler, diagonally opposite the first seal. Fiberglass reinforced tape should then be wrapped around both ends of the cooler, slightly overlapping the custody seal. Tape should be wrapped sufficiently to afford secure closing, but not so that the seal cannot be read through the tape.

The chain-of-custody form must be signed and dated by both the relinquisher and the receiver each time the samples change hands (as in turning samples over to the

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Custody Seal

Date _____ Signature _____

Figure 6

possession of the laboratory). The first entry should be signed by the sampler and subsequent entries must be signed by the person who signed the most recent "received by" entry. The original custody and analytical request forms will be kept in The Chester Laboratory files. A copy of each of these forms is included at the back of this document.

2.8 Field Activities Check List

The final step in the on-site activities will be to decontaminate and clean all field equipment before leaving the job site and to complete the Field Activities Check List. This is the responsibility of the Team Leader. The completed form is to be placed in the project files for future reference.

3.0 POST-SAMPLING ACTIVITIES

3.1 Summary of Post-Sampling Activities

The post-sampling activities center around submitting the samples to the lab for appropriate analyses and filing the necessary documentation of the sampling trip. In addition, sampling equipment and field equipment must be properly cleaned, stored and any required maintenance and/or repairs performed. Diligent care must be taken during this phase of the sampling program to assure that equipment is properly cared for since fatigue from the sampling trip may cause carelessness.

3.2 Procedure

Upon completing the field work, the Field Team Leader will:

1. Submit samples to the laboratory for analysis following the chain of custody procedures.

2. Provide the original of the field log for the project file and make copies as required.

3. File the Field Activities Check List.

4. Place copies of the chain-of-custody and sample analyses request records in the project files. When received from the laboratory, the originals of these forms also will be placed in the project files.

5. Prepare a brief memorandum describing the sampling event and any problems associated with sample collection or equipment, site access, site conditions or pertinent observations. This memo will serve as internal documentation and note areas where revisions or remedial actions are required before the next trip. This memo should be reviewed by the sampling crew for additions or deletions.

Sampling gear and any other equipment used will be checked to ascertain its condition after transport from the site. All necessary repairs and maintenance items as specified by the equipment operating manual will be pursued as soon as possible after return to the office. The Team Leader will prepare a list of items necessary to be addressed before the sampling equipment is reused and also a recommended course of action to be followed in preparing the equipment for the next trip. The Field Team Leader will be responsible for overseeing equipment repair and replacement activities.

APPENDIX II

BORING LOGS - SOIL TEST BORINGS
TB-1, TB-2, A-1, A-5, C-3, D-3, E-2 and I-1

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BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO
Phillips Display Components Company	2887-11	1	TB-1

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	10' from MW-4 towards MW-15	90°	--

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT)	ROCK (FT)	TOTAL DEPTH (FT)
10/17/88	10/18/88	Catoh Dennis Barrow Dan Gates	CME-750	2"	22.5'	0.5'	23.0

CORE RECOVERY (FT /%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL TOP OF ROCK
N/A	N/A	1	N/A		N/A	22.5

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140#/30"	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd / 4th 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
								2 4 6 8 10 12 14 16	CL		0-17.0' Auger Returns indicated brown CLAY, trace amount (<10%) rock fragments, moist	
SS	24	22		3	4	4/6		18	CL		17.0-22.5 Brown, soft caly, with trace amount (<10%) of poorly sorted outwash., up to 4cm, moist, massive	
SS	24	20		4	4	9/20		20	CL			
SS	24	20		39	45	53/100		22	CL	#2	22.5-23.0 Red to gray, very dense, severly weathered, thinly beded, fissle SHALE, MOIST	
								24			End of boring at 23.0' NOTES: 1) Used 2' STAINLESS STEEL split-spoon. 2) SAMPLE #2- Field Log 28871102 taken at 21.0'-23.0' 3) Hole was abandoned by grouting to surface, with cement/ Bentonite mix	

SS = SPLIT SPOON; ST = SHELBY TUBE;
D = DENNISON; P = PITCHER; O = OTHER

SITE: Phillips Display Components Company, Seneca Falls, New York

HOLE NO: TB-1

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BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO
Phillips Display Components Company, Seneca Falls, N.Y.	2887-11	1 of 1	TB-2

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	10' from MW-7 Toward MW-3	90°	--

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT)	ROCK (FT)	TOTAL DEPTH (FT)
10/17/88	10/17/88	Dennis Barrow, Catoh, Dan Gates	CME-750	2"SS, 7" HSA	21.0	1.0	22.0

CORE RECOVERY (FT /%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL TOP OF ROCK
N/A	N/A	1	N/A		N/A	21.0'

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140#/30"	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd / 4th 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24	6		6	10	10/7		2'	CL		0-13.0'; 14.0'-18.75'; 19.75'-21.0' Brown to Light Brown, very stiff CLAY, with trace amount, (<10%) of poorly sorted outwash, mostly less than 2cm grading to 4cm, no organics, moist, massive	
SS	24	18		7	5	10/12		4'	CL			
SS	24	16		10	13	100/100		6'	CL			
SS	24	16		31	20	21/28		8'	CL			
SS	24	20		28	18	19/26		10'	CL			
SS	24	17		36	14	14/22		12'	CL		13.0-14.0 Varved brown, silty CLAY No organics, moist	
SS	24	24		26	22	7/7		14'	CL			
SS	24	4		100				16'	CL			
SS	24	16		70	26	29/21		18'	CL		18.75-19.75 Brown, medium stiff, silty CLAY, saturated, massive	
SS	24	23		8	6	13/21		20'	CL	#1		
SS	24	20		13	18	70/70		22'			21.0-22.0 Red to grey, very dense, severly weathered, thinly bedded, fissle SHALE, moist	
								24'			End of boring 22.0'	

NOTES: 1) Used 2ft Stainless Steel Split- spoon 2' I.D.
2) SAMPLE: Field Log #1-28871101 taken at 20'-22'
3) Hole was abanded by grouting to surface with cement/ bentonite mix

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER

SITE	HOLE NO
Phillips Display Components Company, Seneca Falls, New York	TB-2

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BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO
Phillips Display Components Company	2887-11	1 of 1	A-1

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	A-1 (Wastewater Impoundment)	90°	-0-

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT.)
10/18/88	10/18/88	Dennis Barron, Dan Gates Catoh	Tripod	2"	ALL	-0-	6.0

CORE RECOVERY (FT /%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
N/A	N/A	2" SS	N/A		N/A	N/A

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 # / 30"	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd / 4th 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24	20		2	6	12/19		1	CL		0-6.0 Brown, very stiff CLAY with a trace amount (<10%) of poorly sorted outwash mostly less than 2cm, grading up to 4 cm, moist, massive	
SS	24	24		20	26	27/24		2 3	CL	#4		
SS	24	24		26	28	26/57		4 5	CL	#3		
								6			End of Boring at 6.0'	

NOTE: 1) Boring depths are from bottom of excavated impoundment
2) SAMPLE # 3 Field log, 28871103 taken at 4'-6'.
3) SAMPLE #4 Field log, 28871104 taken at 2-2½'.

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER

SITE	HOLE NO
Phillips Display Components Company, Seneca Falls, New York	A-1

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BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO
Phillips Display Components Company	2887-11	1 of 1	A-5

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	A-5 (Wastewater Impoundment)	90°	-0-

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT)
10/18/88	10/18/88	Catoh Dennis Barron Dan Gates	Tripod	2"	ALL	-0-	6.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
N/A	N/A	2"SS	N/A		N/A	N/A

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140#/30"	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6" 4th	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24			N/A	N/A	N/A		1	CL		0-6.0' Brown, very stiff CLAY, with trace amount (<10%) of poorly sorted outwash mostly less than 2cm, grading up to 4cm, moist, massive	
SS	24	24"		26	41	36/41		2 3	CL	#10		
SS	24	15"		22	21	24/24		4 5	CL	#11		
								6			End of Boring at 6.0'	

NOTES: 1) Boring depths from bottom of wastewater impoundment
2) SAMPLE #10= Field log 28871110 taken at 2'-2½'
3) SAMPLE #11= Field log 28871111 taken at 5'-5½'

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER

SITE: Phillips Display Components Company, Seneca Falls, New York

HOLE NO: A-5

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BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO
Phillips Display Components Company	2887-11	1 of 1	C-3

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	C-3 (Wastewater Impoundments)	90°	-0-

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT)
10/18/88	10/18/88	Catoh Dennis Barron Dan Gates	Tripod	2"SS	ALL	-0-	6.0'

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
N/A	N/A	2"SS	N/A		N/A	N/A

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 #/30"	N/A	James Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd/4th 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24	N/A		N/A	N/A	N/A		1			0-6.0 Brown, stiff CLAY with trace amount (<10%) of poorly sorted outwash, mostly less than 2cm, grading up to 4cm, moist, massive	
SS	24			12	14	23/22		2 3	CL	#8		
SS	24			13	13	14/13		4 5	CL	#9		
								6			End of Boring at 6.0'	

NOTES: 1) Boring depths are from bottom of excavated impoundments
2) SAMPLE #8 = Field log 28871108 taken at 2½-3'.
3) Sample #9 = Field log 28871109 taken at 5½'-6'

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER	SITE	HOLE NO
	Phillips Display Components Company, Seneca Falls, New York	C-3

EMD REV. 4/88

TheChesterEngineers

BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO
Phillips Display Components Company	2887-11	1 of 1	D-3

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	D-3 (Filter Cake Impoundment)	90°	-0-

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT)
10/19/88	10/19/88	Catoh Dennis Barron Dan Gates	Tripod	2"	ALL	-0-	5.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
N/A	N/A	2"SS	N/A		N/A	N/A

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140#/30"	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd / 4th 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24			N/A	N/A	N/A		1	CL		0-5.0 Brown, very silty CLAY, with trace amount (≤10%) of poorly sorted outwash mostly less than 2cm, grading up to 4cm, moist, massive	
SS	24			47	31	37/38		2 3	CL	#14		
SS	12	10		35	+100			4 5	CL	#15		
								6			End of Boring at 5.0'	

NOTES: 1) Boring depths are from bottom of the filter cake impoundment

2) SAMPLE # 14 = Field log 28871114 taken at 2'-2½'

3) SAMPLE # 15= Field log 28871115 taken at 4½'-5'.

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER

SITE: Phillips Display Components Company, Seneca Falls, New York

HOLE NO: D-3

EMD 624. 4/88

TheChesterEngineers

BORING LOG

PROJECT	JOB NO.	SHEET NO	HOLE NO
Phillips Display Components Company	2887-11	1 of 1	E-2

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	E-2 (Filter Cake Impoundment)	90°	-0-

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT)
10/19/88	10/19/88	Catoh Dennis Barron Dan Gates	Tripod	2"	ALL	-0-	6.0

CORE RECOVERY (FT./%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL. TOP OF ROCK
N/A	N/A	2"SS	N/A		N/A	N/A

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 # / 30 "	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6" / 4th	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24	N/A		N/A	N/A	N/A		1	CL		0-6.0' Brown, very stiff CLAY, with trace amount (<10%) of poorly sorted outwash mostly less than 2cm, grading up to 4 cm, moist, massive	
SS	24	20		32	40	83/80		2 3	CL	#12		
SS	24	22		15	24	28/41		4 5	CL	#13		
								6			End of Boring at 6.0' NOTES: 1) Boring depths are from bottom of filter cake impoundment 2) Sample # 12= Field log 28871112 taken at 3'-3½' 3) Sample # 13 = Field log 28871113 taken at 5½'-6'	

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER

SITE: Phillips Display Components Company, Seneca Falls, New York

HOLE NO: E-2

EMD REV. 4/88

TheChesterEngineers

BORING LOG

PROJECT	JOB NO	SHEET NO	HOLE NO.
Phillips Display Components Company	2887-11	1 of 1	I-1

SITE	COORDINATES	ANGLE FROM HORIZON	BEARING
Seneca Falls, New York	I-1 (Incinerator)	90°	-0-

BEGAN	COMPLETED	DRILLER	DRILL MAKE AND MODEL	HOLE SIZE	OVERBURDEN (FT.)	ROCK (FT.)	TOTAL DEPTH (FT)
10/18/88	10/18/88	Catoh Dennis Barron Dan Gates	Tripod	2"	ALL	-0-	10.0

CORE RECOVERY (FT /%)	CORE BOXES	SAMPLES	EL. TOP OF CASING	GROUND EL.	DEPTH/EL. GROUND WATER	DEPTH/EL TOP OF ROCK
N/A	N/A	2" SS	N/A		N/A	N/A

SAMPLE HAMMER WEIGHT/FALL	CASING LEFT IN HOLE: DIA./LENGTH	LOGGED BY:
140 # / 30"	N/A	J.Pinta Jr.

SAMPLER TYPE AND DIAMETER	SAMPLER ADVANCE / LENGTH CORE RUN	SAMPLE RECOVERY / CORE RECOVERY	SAMPLE BLOWS "N" / % CORE RECOVERY	PENETRATION BLOWS 1st 6"	2nd 6"	3rd / 4th 3rd 6"	ELEVATION	DEPTH	UNIFIED SOIL CLASSIFICATION	SAMPLE	DESCRIPTION AND CLASSIFICATION	NOTES ON: WATER LEVELS, WATER RETURN, CHARACTER OF DRILLING, ETC.
SS	24	N/A		N/A	N/A	N/A		1	CL			
SS	24	N/A		N/A	N/A	N/A		3	CL			
SS	24	24		12	20	30/30		5	CL	#6	0-10.0 Brown, very stiff CLAY with trace amount (< 10%) of poorly sorted outwash mostly less than 2cm, grading up to 4cm, moist, massive.	
SS	24	24		43	45	47/44		7				
SS	24	24		40	38	50/75		9		#7		
											End of Boring at 10.0' NOTES: 1) Boring depths are indicated from top of concrete pad, at 17ft below ground surface 2) Sample #6= Field Log 28871106 taken at 5½'-6' 3) Sample #7= Field Log 28871107 taken at 8'-10'	

SS = SPLIT SPOON; ST = SHELBY TUBE; D = DENNISON; P = PITCHER; O = OTHER

SITE: Phillips Display Components Company, Seneca Falls, New York

HOLE NO: I-1

EMD REV. 4/88

APPENDIX III

SAMPLING ROUND SUMMARY
SOIL SAMPLING FOR CLOSURE DOCUMENTATION
PHILIPS DISPLAY COMPONENTS CORPORATION
SENECA FALLS, NEW YORK

SAMPLING ROUND SUMMARY (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY
SITE : HAZARDOUS WASTE UNITS
WELLS : < ALL >

FACILITY : SENECA FALLS
LOCATION : SENECA FALLS, N.Y.

SOIL

		<----------SAMPLING POINT---------->				
		A-1	A-1'	A-5	A-5'	C-3
		BEL. SURFACE	BEL. SURFACE	BEL. SURFACE	BEL. SURFACE	BEL. SURFACE
		2'-2.5'	4'-6'	2'-2.5'	5.5'	2.5'-3'
		10/18/88	10/18/88	10/19/88	10/19/88	10/18/88
PARAMETER	UNIT	12502	12501	12508	12509	12506
ARSENIC	MG/KG	<1	<1	<1	<1	<1
BARIUM	MG/KG	37	31	43	45	35
CADMIUM	MG/KG	0.16	0.30	0.39	0.40	1.9
CHROMIUM	MG/KG	6.4	12	6.4	11	7.0
LEAD	MG/KG	4.5	4.8	4.9	4.4	7.9
MERCURY	MG/KG	0.03	0.02	0.04	0.03	0.05
SELENIUM	MG/KG	<1	<1	<1	<1	<1
SILVER	MG/KG	<0.2	<0.2	<0.2	<0.2	<0.2
ENDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
G-BHC(LINDANE)	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHOXYCHLOR	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TOXAPHENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DICHLOROPHENOXYACETIC ACID	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TP SILVEX	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ACROLEIN	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ACRYLONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
BENZENE	MG/KG	<0.01	<0.01	<0.01	<0.01	0.1
BROMOFORM	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CARBON TETRACHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROBENZENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CHLORODIBROMOMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROFORM	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
DICHLOROBROMOMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DICHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CIS-1,3-DICHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TRANS-1,3-DICHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ETHYLBENZENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL BROMIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYLENE CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2,2-TETRACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TETRACHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TOLUENE	MG/KG	0.17	0.46	0.136	0.12	0.1
1,2-TRANS-DICHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,1-TRICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-TRICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TRICHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
VINYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ACENAPHTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	A-1 BEL. SURFACE 2'-2.5' 10/18/88 12502	A-1' BEL. SURFACE 4'-6' 10/18/88 12501	A-5 BEL. SURFACE 2'-2.5' 10/19/88 12508	A-5' BEL. SURFACE 5.5' 10/19/88 12509	C-3 BEL. SURFACE 2.5'-3' 10/18/88 12506
ACENAPHTHYLENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(A)ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(A)PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(G,H,I)PERYLENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(K)FLUORANTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROETHOXY) METHANE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROETHYL) ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROISOPROPYL) ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-ETHYLHEXYL) PHTHALATE	MG/KG	<0.1	<0.1	0.752	0.441	0.25
4-BROMOPHENYL PHENYL ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BUTYL BENZYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-CHLORONAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-CHLOROPHENYL PHENYL ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CHRYSENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIBENZO(A,H)ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
3,3-DICHLOROBENZIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIETHYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIMETHYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DI-N-BUTYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DINITROTOLUENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-DINITROTOLUENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DI-N-OCTYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
FLUORANTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
FLUORENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACHLOROBUTADIENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACYCLOCHLOROPENTADIENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACHLOROETHANE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
INDENO(1,2,3-CD) PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ISOPHORONE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
NAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
NITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODIMETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODI-N-PROPYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODIPHENYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHENANTHRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-TRICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-CHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	A-1 BEL. SURFACE 2'-2.5' 10/18/88 12502	A-1' BEL. SURFACE 4'-6' 10/18/88 12501	A-5 BEL. SURFACE 2'-2.5' 10/19/88 12508	A-5' BEL. SURFACE 5.5' 10/19/88 12509	C-3 BEL. SURFACE 2.5'-3' 10/18/88 12506
2,4-DICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DIMETHYLPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,6-DINITRO-O-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DINITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-NITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-NITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-CHLORO-M-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PENTACHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-TRICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ALDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
A-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
B-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
D-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CHLORDANE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIELDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
A-ENDOSULFAN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
B-ENDOSULFAN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ENDOSULFAN SULFATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ENDRIN ALDEHYDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEPTACHLOR	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEPTACHLOR EPOXIDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1242	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
PCB-1254	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
PCB-1221	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
PCB-1232	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
PCB-1248	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
PCB-1260	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
PCB-1016	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.005
2,3,7,8-TCDD	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
0,0,0-TRIETHYL PHOSPHOROTHIO	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
0,0-DIETHYL 0-2-PYRAZINYL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-TETRACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,3-TRICHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMO-3-CHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMOETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,4-DIOXANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,4-NAPHTHOQUINONE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1-NAPTHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,3,4,6-TETRACHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	A-1 BEL. SURFACE 2'-2.5' 10/18/88 12502	A-1' BEL. SURFACE 4'-6' 10/18/88 12501	A-5 BEL. SURFACE 2'-2.5' 10/19/88 12508	A-5' BEL. SURFACE 5.5' 10/19/88 12509	C-3 BEL. SURFACE 2.5'-3' 10/18/88 12506
2,4,5 - T	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TETRACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TRICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-DICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-HEXANONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
2-METHYLNAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-NAPTHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
3,3'-DIMETHYLBENZIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
3-METHYLCHOLANTHRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-AMINOBIPHENYL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-METHYLPHENOL (MCRESOL)	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-NITROQUINOLINE 1-OXIDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
5-NITRO-O-TOLUIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
7,12-DIMETHYBENZ(A)AN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ACETONE	MG/KG	<0.01	0.38	0.15	0.16	0.145
ACETONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ACETOPHENONE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ACETYLAMINOFLOURENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ALLYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ALPHA,ALPHA-DIMETHYLPHENETHY	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ANTIMONY	MG/KG	<0.5	<0.5	<0.5	<0.5	<0.5
ARAMITE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZYL ALCOHOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BERYLLIUM	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CARBON DISULFIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROBENZILATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CHLOROPRENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
COBALT	MG/KG	3.8	4.1	4.5	4.9	2.7
COPPER	MG/KG	9.8	15	10	11	10
CYANIDE, TOTAL	MG/KG	<0.04	<0.04	<0.04	<0.04	<0.04
DIALLATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIBENZOFURAN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DICHLORODIFLUOROMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
DIMETHOATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DINOSEB	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
DIPHENYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DISULFOTON	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ETHYL METHACRYLATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ETHYL METHANESULFONATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
FAMPHUR	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
HEXACHLORODIBENZOFURANS	MG/KG	N/A	N/A	N/A	N/A	N/A
HEXACHLOROPHENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	A-1 BEL. SURFACE 2'-2.5' 10/18/88 12502	A-1' BEL. SURFACE 4'-6' 10/18/88 12501	A-5 BEL. SURFACE 2'-2.5' 10/19/88 12508	A-5' BEL. SURFACE 5.5' 10/19/88 12509	C-3 BEL. SURFACE 2.5'-3' 10/18/88 12506
HEXACHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ISOBUTANOL	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ISODRIN	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ISOSAFROLE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
KEPONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
M-DINITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
M-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHACRYLONITIRLERILE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHAPYRILENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHYL ETHYL KETONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL IODIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL ISOBUTYL KETONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.1
METHYL METHACRYLATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL METHANESULFONATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHYL PARATHION	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYLENE BROMIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
N-NITROSODI-N-BUTYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODIETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOMETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOMORPHOLINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOPIPERIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOPYRROLIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
NICKEL	MG/KG	8.2	9.0	8.7	9.0	7.7
O-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
O-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
O-TOLUIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P(DIMETHYLAMINO)AZOB	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-CHLORANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-PHENYLENEDIAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PARATHION	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PENTACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PENTACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PENTACHLORONITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHENACETIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHORATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PICOLINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
POLYCHLORINATED DIBENZ-P-DIO	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
POLYCHLORINATED DIBENZOFURANS	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PRONAMIDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PROPIONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PYRIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	A-1 BEL. SURFACE 2'-2.5' 10/18/88 12502	A-1' BEL. SURFACE 4'-6' 10/18/88 12501	A-5 BEL. SURFACE 2'-2.5' 10/19/88 12508	A-5' BEL. SURFACE 5.5' 10/19/88 12509	C-3 BEL. SURFACE 2.5'-3' 10/18/88 12506
SAFROLE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
STYRENE	MG/KG	<0.01	<0.01	<0.01	<0.01	0.035
SULFIDES	MG/KG	<10	<10	<10	<10	<10
SYM-TRINITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
TETRAETHYL DITHOPYROPHOSPHATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
THALLIUM	MG/KG	<2	<2	<2	<2	<2
TIN	MG/KG	<0.5	0.55	<0.5	1.2	<0.5
TRANS-1,4-DICHLORO-2-BUTENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TRICHLOROFLUOROMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
VANADIUM	MG/KG	7.3	8.1	7.6	8.3	5.5
VINYL ACETATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
XYLENES	MG/KG	0.014	<0.01	<0.01	0.022	0.025
ZINC	MG/KG	21	26	26	25	55

SAMPLING ROUND SUMMARY (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

HRS soil limits

PARAMETER	UNIT	SAMPLING POINT	C-3' BEL. SURFACE 5.5'-6' 10/18/88 12507	D-3 BEL. SURFACE 2'-2.5' 10/19/88 12512	D-3' BEL. SURFACE 4.5'-5' 10/19/88 12513	E-2 BEL. SURFACE 3'-3.5' 10/19/88 12510	E-2' BEL. SURFACE 5.5'-6' 10/19/88 12511
ARSENIC	MG/KG		<1	<1	<1	<1	<1
BARIUM	MG/KG		48	26	29	33	57
CADMIUM	MG/KG		2.4	0.29	0.33	0.34	0.33
CHROMIUM	MG/KG		8.1	4.8	5.6	5.7	4.8
LEAD	MG/KG		8.8	3.2	3.6	4.3	4.1
MERCURY	MG/KG		0.07	0.05	0.04	0.05	0.02
SELENIUM	MG/KG		<1	<1	<1	<1	<1
SILVER	MG/KG		<0.2	<0.2	<0.2	<0.2	<0.2
ENDRIN	MG/KG		<0.1	<0.1	<0.1	<0.1	<0.1
G-BHC(LINDANE)	MG/KG		<0.1	<0.1	<0.1	<0.1	<0.1
METHOXYCHLOR	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
TOXAPHENE	MG/KG		<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DICHLOROPHENOXYACETIC ACID	MG/KG		<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TP SILVEX	MG/KG		<0.1	<0.1	<0.1	<0.1	<0.1
ACROLEIN	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
ACRYLONITRILE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
BENZENE	MG/KG		0.14	<0.01	0.042	0.24	<0.01
BROMOFORM	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
CARBON TETRACHLORIDE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROBENZENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
CHLORODIBROMOMETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROFORM	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
DICHLOROBROMOMETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DICHLOROETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHYLENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DICHLOROPROPANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
CIS-1,3-DICHLOROPROPENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
TRANS-1,3-DICHLOROPROPENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
ETHYLBENZENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
METHYL BROMIDE (DICHLOROMETHANE)	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
METHYL CHLORIDE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
METHYLENE CHLORIDE 5,000	MG/KG	93	<0.01	<0.01	<0.01	0.1	<0.01
1,1,2,2-TETRACHLOROETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
TETRACHLOROETHYLENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
TOLUENE	MG/KG		0.124	0.062	0.024	0.048	0.046
1,2-TRANS-DICHLOROETHYLENE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
1,1,1-TRICHLOROETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
1,1,2-TRICHLOROETHANE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
TRICHLOROETHYLENE	MG/KG		<0.01	0.406	0.154	0.12	0.28
VINYL CHLORIDE	MG/KG		<0.01	<0.01	<0.01	<0.01	<0.01
ACENAPHTHENE	MG/KG		<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY
SITE : HAZARDOUS WASTE UNITS
WELLS : < ALL >

FACILITY : SENECA FALLS
LOCATION : SENECA FALLS, N.Y.

PARAMETER	UNIT	C-3' BEL. SURFACE 5.5'-6' 10/18/88 12507	D-3 BEL. SURFACE 2'-2.5' 10/19/88 12512	D-3' BEL. SURFACE 4.5'-5' 10/19/88 12513	E-2 BEL. SURFACE 3'-3.5' 10/19/88 12510	E-2' BEL. SURFACE 5.5'-6' 10/19/88 12511
ACENAPHTHYLENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(A)ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(A)PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(G,H,I)PERYLENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZO(K)FLUORANTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROETHOXY) METHANE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROETHYL) ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROISOPROPYL) ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BIS(2-ETHYLHEXYL) PHTHALATE	MG/KG	0.397	<0.1	1.235	0.68	1.852
4-BROMOPHENYL PHENYL ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BUTYL BENZYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-CHLORONAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-CHLOROPHENYL PHENYL ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CHRYSENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIBENZO(A,H)ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
3,3-DICHLOROBENZIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIETHYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIMETHYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DI-N-BUTYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DINITROTOLUENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-DINITROTOLUENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DI-N-OCTYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
FLUORANTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
FLUORENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACHLOROBUTADIENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACYCLOCHLOROPENTADIENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEXACHLOROETHANE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
INDENO(1,2,3-CD) PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ISOPHORONE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
NAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
NITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODIMETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODI-N-PROPYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODIPHENYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHENANTHRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,2,4-TRICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-CHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	C-3' BEL. SURFACE 5.5'-6' 10/18/88 12507	D-3 BEL. SURFACE 2'-2.5' 10/19/88 12512	D-3' BEL. SURFACE 4.5'-5' 10/19/88 12513	E-2 BEL. SURFACE 3'-3.5' 10/19/88 12510	E-2' BEL. SURFACE 5.5'-6' 10/19/88 12511
2,4-DICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DIMETHYLPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,6-DINITRO-O-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DINITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-NITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-NITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-CHLORO-M-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PENTACHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-TRICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ALDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
A-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
B-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
D-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CHLORDANE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIELDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
A-ENDOSULFAN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
B-ENDOSULFAN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ENDOSULFAN SULFATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ENDRIN ALDEHYDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEPTACHLOR	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
HEPTACHLOR EPOXIDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1242	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1254	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1221	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1232	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1248	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1260	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PCB-1016	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,3,7,8-TCDD	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
0,0,0-TRIETHYL PHOSPHOROTHIO	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
0,0-DIETHYL 0-2-PYRAZINYL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1,1,1,2-TETRACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2,3-TRICHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMO-3-CHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMOETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,4-DIOXANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
1,4-NAPHTHOQUINONE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
1-NAPTHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,3,4,6-TETRACHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	C-3' BEL. SURFACE 5.5'-6' 10/18/88 12507	D-3 BEL. SURFACE 2'-2.5' 10/19/88 12512	D-3' BEL. SURFACE 4.5'-5' 10/19/88 12513	E-2 BEL. SURFACE 3'-3.5' 10/19/88 12510	E-2' BEL. SURFACE 5.5'-6' 10/19/88 12511
2,4,5 - T	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TETRACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TRICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-DICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-HEXANONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
2-METHYLNAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
2-NAPTHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
3,3'-DIMETHYLBENZIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
3-METHYLCHOLANTHRENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-AMINOBIPHENYL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-METHYLPHENOL (MCRESOL)	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
4-NITROQUINOLINE 1-OXIDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
5-NITRO-O-TOLUIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
7,12-DIMETHYBENZ(A)AN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ACETONE	MG/KG	0.18	0.5	<0.01	0.18	<0.01
ACETONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ACETOPHENONE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ACETYLAMINOFLOURENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ALLYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ALPHA,ALPHA-DIMETHYLPHENETHY	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
ANTIMONY	MG/KG	<0.5	<0.5	<0.5	<0.5	<0.5
ARAMITE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BENZYL ALCOHOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
BERYLLIUM	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CARBON DISULFIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
CHLOROBENZILATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
CHLOROPRENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
COBALT	MG/KG	3.8	3.2	3.2	3.9	4.2
COPPER	MG/KG	12	13	11	11	10
CYANIDE, TOTAL	MG/KG	<0.04	<0.04	<0.04	<0.04	<0.04
DIALLATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DIBENZOFURAN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DICHLORODIFLUOROMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
DIMETHOATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DINOSEB	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
DIPHENYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
DISULFOTON	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ETHYL METHACRYLATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ETHYL METHANESULFONATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
FAMPHUR	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
HEXACHLORODIBENZOFURANS	MG/KG	N/A	<0.1	N/A	N/A	N/A
HEXACHLOROPHENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	C-3' BEL. SURFACE 5.5'-6' 10/18/88 12507	D-3 BEL. SURFACE 2'-2.5' 10/19/88 12512	D-3' BEL. SURFACE 4.5'-5' 10/19/88 12513	E-2 BEL. SURFACE 3'-3.5' 10/19/88 12510	E-2' BEL. SURFACE 5.5'-6' 10/19/88 12511
HEXACHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ISOBUTANOL	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ISODRIN	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
ISOSAFROLE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
KEPONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
M-DINITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
M-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHACRYLONITIRLERILE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHAPYRILENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHYL ETHYL KETONE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL IODIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL ISOBUTYL KETONE	MG/KG	<0.01	<0.01	<0.01	0.014	<0.01
METHYL METHACRYLATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYL METHANESULFONATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
METHYL PARATHION	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
METHYLENE BROMIDE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
N-NITROSODI-N-BUTYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSODIETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOMETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOMORPHOLINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOPIPERIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
N-NITROSOPYRROLIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
NICKEL	MG/KG	8.2	6.2	7.4	7.3	7.2
O-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
O-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
O-TOLUIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P(DIMETHYLAMINO)AZOB	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-CHLORANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
P-PHENYLENEDIAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PARATHION	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PENTACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PENTACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PENTACHLORONITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHENACETIN	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PHORATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
PICOLINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
POLYCHLORINATED DIBENZ-P-DIO	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
POLYCHLORINATED DIBENZOFURANS	MG/KG	<0.1	N/A	<0.1	<0.1	<0.1
PRONAMIDE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
PROPIONITRILE	MG/KG	<0.01	<0.01	N/A	<0.01	<0.01
PYRIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	C-3' BEL. SURFACE 5.5'-6' 10/18/88 12507	D-3 BEL. SURFACE 2'-2.5' 10/19/88 12512	D-3' BEL. SURFACE 4.5'-5' 10/19/88 12513	E-2 BEL. SURFACE 3'-3.5' 10/19/88 12510	E-2' BEL. SURFACE 5.5'-6' 10/19/88 12511
SAFROLE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
STYRENE	MG/KG	0.048	<0.01	<0.01	0.086	<0.01
SULFIDES	MG/KG	<10	<10	<10	<10	<10
SYM-TRINITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
TETRAETHYL DITHOPYROPHOSPHATE	MG/KG	<0.1	<0.1	<0.1	<0.1	<0.1
THALLIUM	MG/KG	<2	<2	<2	<2	<2
TIN	MG/KG	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,4-DICHLORO-2-BUTENE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
TRICHLOROFLUOROMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
VANADIUM	MG/KG	7.7	5.9	6.6	6.6	5.6
VINYL ACETATE	MG/KG	<0.01	<0.01	<0.01	<0.01	<0.01
XYLENES	MG/KG	0.04	0.022	0.02	0.066	<0.01
ZINC	MG/KG	64	22	24	23	20

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

		<----------S A M P L I N G P O I N T---------->			
		I-1 BELOW PAD 1'-1.5'	I-1' BELOW PAD 4.5'-5'	TB-1 TEST BORING	TB-2 TEST BORING
		10/18/88	10/18/88	10/18/88	10/17/88
PARAMETER	UNIT	12504	12505	12500	12499
ARSENIC	MG/KG	<1.0	<1	<1	<1
BARIUM	MG/KG	67	88	41	18
CADMIUM	MG/KG	0.59	0.50	0.38	0.28
CHROMIUM	MG/KG	5.7	6.2	6.8	9.3
LEAD	MG/KG	4.9	5.3	4.4	2.7
MERCURY	MG/KG	0.02	0.02	0.03	0.09
SELENIUM	MG/KG	<2	<2	<1	<1
SILVER	MG/KG	<0.25	<0.25	<0.2	<0.2
ENDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1
G-BHC(LINDANE)	MG/KG	<0.1	<0.1	<0.1	<0.1
METHOXYCHLOR	MG/KG	<0.01	<0.01	<0.01	<0.01
TOXAPHENE	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4-DICHLOROPHENOXYACETIC ACID	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4,5-TP SILVEX	MG/KG	<0.1	<0.1	<0.1	<0.1
ACROLEIN	MG/KG	<0.01	<0.01	<0.01	<0.01
ACRYLONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01
BENZENE	MG/KG	<0.01	<0.01	0.88	<0.01
BROMOFORM	MG/KG	<0.01	<0.01	<0.01	<0.01
CARBON TETRACHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
CHLOROBENZENE	MG/KG	<0.01	<0.01	<0.01	<0.01
CHLORODIBROMOMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
CHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
CHLOROFORM	MG/KG	<0.01	<0.01	<0.01	<0.01
DICHLOROBROMOMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,2-DICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,1-DICHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,2-DICHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01
CIS-1,3-DICHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01
TRANS-1,3-DICHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01
ETHYLBENZENE	MG/KG	<0.01	<0.01	0.016	<0.01
METHYL BROMIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
METHYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
METHYLENE CHLORIDE	MG/KG	<0.01	<0.01	0.4	<0.01
1,1,2,2-TETRACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
TETRACHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01
TOLUENE	MG/KG	0.088	1.14	0.07	0.032
1,2-TRANS-DICHLOROETHYLENE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,1,1-TRICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,1,2-TRICHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
TRICHLOROETHYLENE	MG/KG	<0.01	<0.01	0.038	<0.01
VINYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
ACENAPHTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	I-1 BELOW PAD 1'-1.5' 10/18/88 12504	I-1' BELOW PAD 4.5'-5' 10/18/88 12505	TB-1 TEST BORING 10/18/88 12500	TB-2 TEST BORING 10/17/88 12499
ACENAPHTHYLENE	MG/KG	<0.1	<0.1	<0.1	<0.1
ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1
BENZO(A)ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1
BENZO(A)PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1
BENZO(G,H,I)PERYLENE	MG/KG	<0.1	<0.1	<0.1	<0.1
BENZO(K)FLUORANTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROETHOXY) METHANE	MG/KG	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROETHYL) ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1
BIS(2-CHLOROISOPROPYL) ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1
BIS(2-ETHYLHEXYL) PHTHALATE	MG/KG	0.843	1.17	1.089	1.982
4-BROMOPHENYL PHENYL ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1
BUTYL BENZYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1
2-CHLORONAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1
4-CHLOROPHENYL PHENYL ETHER	MG/KG	<0.1	<0.1	<0.1	<0.1
CHRYSENE	MG/KG	<0.1	<0.1	<0.1	<0.1
DIBENZO(A,H)ANTHRACENE	MG/KG	<0.1	<0.1	<0.1	<0.1
1,2-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
1,3-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
1,4-DICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
3,3-DICHLOROBENZIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1
DIETHYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1
DIMETHYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1
DI-N-BUTYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4-DINITROTOLUENE	MG/KG	<0.1	<0.1	<0.1	<0.1
2,6-DINITROTOLUENE	MG/KG	<0.1	<0.1	<0.1	<0.1
DI-N-OCTYL PHTHALATE	MG/KG	<0.1	<0.1	<0.1	<0.1
FLUORANTHENE	MG/KG	<0.1	<0.1	<0.1	<0.1
FLUORENE	MG/KG	<0.1	<0.1	<0.1	<0.1
HEXACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
HEXACHLOROBUTADIENE	MG/KG	<0.1	<0.1	<0.1	<0.1
HEXACYCLOCHLOROPENTADIENE	MG/KG	<0.1	<0.1	<0.1	<0.1
HEXACHLOROETHANE	MG/KG	<0.1	<0.1	<0.1	<0.1
INDENO(1,2,3-CD) PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1
ISOPHORONE	MG/KG	<0.1	<0.1	<0.1	<0.1
NAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1
NITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSODIMETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSODI-N-PROPYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSODIPHENYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
PHENANTHRENE	MG/KG	<0.1	<0.1	<0.1	<0.1
PYRENE	MG/KG	<0.1	<0.1	<0.1	<0.1
1,2,4-TRICHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
2-CHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	I-1 BELOW PAD 1'-1.5' 10/18/88 12504	I-1' BELOW PAD 4.5'-5' 10/18/88 12505	TB-1 TEST BORING 10/18/88 12500	TB-2 TEST BORING 10/17/88 12499
2,4-DICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4-DIMETHYLPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
4,6-DINITRO-O-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4-DINITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
2-NITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
4-NITROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
P-CHLORO-M-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1
PENTACHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
PHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4,6-TRICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
ALDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1
A-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1
B-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1
D-BHC	MG/KG	<0.1	<0.1	<0.1	<0.1
CHLORDANE	MG/KG	<0.1	<0.1	<0.1	<0.1
4,4'-DDT	MG/KG	<0.1	<0.1	<0.1	<0.1
4,4'-DDE	MG/KG	<0.1	<0.1	<0.1	<0.1
4,4'-DDD	MG/KG	<0.1	<0.1	<0.1	<0.1
DIELDRIN	MG/KG	<0.1	<0.1	<0.1	<0.1
A-ENDOSULFAN	MG/KG	<0.1	<0.1	<0.1	<0.1
B-ENDOSULFAN	MG/KG	<0.1	<0.1	<0.1	<0.1
ENDOSULFAN SULFATE	MG/KG	<0.1	<0.1	<0.1	<0.1
ENDRIN ALDEHYDE	MG/KG	<0.1	<0.1	<0.1	<0.1
HEPTACHLOR	MG/KG	<0.1	<0.1	<0.1	<0.1
HEPTACHLOR EPOXIDE	MG/KG	<0.1	<0.1	<0.1	<0.1
PCB-1242	MG/KG	<0.005	<0.1	<0.1	<0.1
PCB-1254	MG/KG	<0.005	<0.1	<0.1	<0.1
PCB-1221	MG/KG	<0.005	<0.1	<0.1	<0.1
PCB-1232	MG/KG	<0.005	<0.1	<0.1	<0.1
PCB-1248	MG/KG	<0.005	<0.1	<0.1	<0.1
PCB-1260	MG/KG	<0.005	<0.1	<0.1	<0.1
PCB-1016	MG/KG	<0.005	<0.1	<0.1	<0.1
2,3,7,8-TCDD	MG/KG	<0.1	<0.1	<0.1	<0.1
0,0,0-TRIETHYL PHOSPHOROTHIO	MG/KG	<0.1	<0.1	<0.1	<0.1
0,0-DIETHYL 0-2-PYRAZINYL	MG/KG	<0.1	<0.1	<0.1	<0.1
1,1,1,2-TETRACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,2,3-TRICHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMO-3-CHLOROPROPANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,2-DIBROMOETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,4-DIOXANE	MG/KG	<0.01	<0.01	<0.01	<0.01
1,4-NAPHTHOQUINONE	MG/KG	<0.1	<0.1	<0.1	<0.1
1-NAPTHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
2,3,4,6-TETRACHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	I-1 BELOW PAD 1'-1.5' 10/18/88 12504	I-1' BELOW PAD 4.5'-5' 10/18/88 12505	TB-1 TEST BORING 10/18/88 12500	TB-2 TEST BORING 10/17/88 12499
2,4,5 - T	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4,5-TETRACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
2,4,5-TRICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
2,6-DICHLOROPHENOL	MG/KG	<0.1	<0.1	<0.1	<0.1
2-HEXANONE	MG/KG	<0.01	<0.01	<0.01	<0.01
2-METHYLNAPHTHALENE	MG/KG	<0.1	<0.1	<0.1	<0.1
2-NAPTHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
3,3'-DIMETHYLBENZIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1
3-METHYLCHOLANTHRENE	MG/KG	<0.1	<0.1	<0.1	<0.1
4-AMINOBIPHENYL	MG/KG	<0.1	<0.1	<0.1	<0.1
4-METHYLPHENOL (MCRESOL)	MG/KG	<0.1	<0.1	<0.1	<0.1
4-NITROQUINOLINE 1-OXIDE	MG/KG	<0.1	<0.1	<0.1	<0.1
5-NITRO-O-TOLUIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1
7,12-DIMETHYBENZ(A)AN	MG/KG	<0.1	<0.1	<0.1	<0.1
ACETONE	MG/KG	0.46	<0.01	0.16	0.12
ACETONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01
ACETOPHENONE	MG/KG	<0.1	<0.1	<0.1	<0.1
ACETYLAMINOFLOURENE	MG/KG	<0.1	<0.1	<0.1	<0.1
ALLYL CHLORIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
ALPHA,ALPHA-DIMETHYLPHENETHY	MG/KG	<0.1	<0.1	<0.1	<0.1
ANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1
ANTIMONY	MG/KG	<1	<1	<0.5	<0.5
ARAMITE	MG/KG	<0.1	<0.1	<0.1	<0.1
BENZYL ALCOHOL	MG/KG	<0.1	<0.1	<0.1	<0.1
BERYLLIUM	MG/KG	<0.1	<0.1	<0.1	<0.1
CARBON DISULFIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
CHLOROBENZILATE	MG/KG	<0.1	<0.1	<0.1	<0.1
CHLOROPRENE	MG/KG	<0.01	<0.01	<0.01	<0.01
COBALT	MG/KG	5.8	7.0	3.6	4.2
COPPER	MG/KG	11.0	9.7	9.1	7.8
CYANIDE, TOTAL	MG/KG	<0.04	<0.04	<0.04	0.41
DIALLATE	MG/KG	<0.1	<0.1	<0.1	<0.1
DIBENZOFURAN	MG/KG	<0.1	<0.1	<0.1	<0.1
DICHLORODIFLUOROMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
DIMETHOATE	MG/KG	<0.1	<0.1	<0.1	<0.1
DINOSEB	MG/KG	<0.01	<0.01	<0.01	<0.01
DIPHENYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
DISULFOTON	MG/KG	<0.01	<0.01	<0.01	<0.01
ETHYL METHACRYLATE	MG/KG	<0.01	<0.01	<0.01	<0.01
ETHYL METHANESULFONATE	MG/KG	<0.1	<0.1	<0.1	<0.1
FAMPHUR	MG/KG	<0.01	<0.01	<0.01	<0.01
HEXACHLORODIBENZOFURANS	MG/KG	N/A	N/A	N/A	N/A
HEXACHLOROPHENE	MG/KG	<0.01	<0.01	<0.01	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	I-1 BELOW PAD 1'-1.5' 10/18/88 12504	I-1' BELOW PAD 4.5'-5' 10/18/88 12505	TB-1 TEST BORING 10/18/88 12500	TB-2 TEST BORING 10/17/88 12499
HEXACHLOROPROPENE	MG/KG	<0.01	<0.01	<0.01	<0.01
ISOBUTANOL	MG/KG	<0.01	<0.01	<0.01	<0.01
ISODRIN	MG/KG	<0.01	<0.01	<0.01	<0.01
ISOSAFROLE	MG/KG	<0.01	<0.01	<0.01	<0.01
KEPONE	MG/KG	<0.01	<0.01	<0.01	<0.01
M-DINITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
M-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1
METHACRYLONITIRLERILE	MG/KG	<0.01	<0.01	<0.01	<0.01
METHAPYRILENE	MG/KG	<0.1	<0.1	<0.1	<0.1
METHYL ETHYL KETONE	MG/KG	<0.01	<0.01	0.44	<0.01
METHYL IODIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
METHYL ISOBUTYL KETONE	MG/KG	<0.01	<0.1	<0.01	<0.01
METHYL METHACRYLATE	MG/KG	<0.01	<0.01	<0.01	<0.01
METHYL METHANESULFONATE	MG/KG	<0.1	<0.1	<0.1	<0.1
METHYL PARATHION	MG/KG	<0.01	<0.01	<0.01	<0.01
METHYLENE BROMIDE	MG/KG	<0.01	<0.01	<0.01	<0.01
N-NITROSODI-N-BUTYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSODIETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSOMETHYLAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSOMORPHOLINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSOPIPERIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1
N-NITROSOPYRROLIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1
NICKEL	MG/KG	8.6	8.6	8.0	11
O-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1
O-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1
O-TOLUIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1
P(DIMETHYLAMINO)AZOB	MG/KG	<0.1	<0.1	<0.1	<0.1
P-CHLORANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1
P-CRESOL	MG/KG	<0.1	<0.1	<0.1	<0.1
P-NITROANILINE	MG/KG	<0.1	<0.1	<0.1	<0.1
P-PHENYLENEDIAMINE	MG/KG	<0.1	<0.1	<0.1	<0.1
PARATHION	MG/KG	<0.01	<0.01	<0.01	<0.01
PENTACHLOROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
PENTACHLOROETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
PENTACHLORONITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
PHENACETIN	MG/KG	<0.1	<0.1	<0.1	<0.1
PHORATE	MG/KG	<0.01	<0.01	<0.01	<0.01
PICOLINE	MG/KG	<0.1	<0.1	<0.1	<0.1
POLYCHLORINATED DIBENZ-P-DIO	MG/KG	<0.1	<0.1	<0.1	<0.1
POLYCHLORINATED DIBENZOFURANS	MG/KG	<0.1	<0.1	<0.1	<0.1
PRONAMIDE	MG/KG	<0.1	<0.1	<0.1	<0.1
PROPIONITRILE	MG/KG	<0.01	<0.01	<0.01	<0.01
PYRIDINE	MG/KG	<0.1	<0.1	<0.1	<0.1

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 4:03 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : HAZARDOUS WASTE UNITS LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	I-1 BELOW PAD 1'-1.5' 10/18/88 12504	I-1' BELOW PAD 4.5'-5' 10/18/88 12505	TB-1 TEST BORING 10/18/88 12500	TB-2 TEST BORING 10/17/88 12499
SAFROLE	MG/KG	<0.01	<0.01	<0.01	<0.01
STYRENE	MG/KG	0.018	0.022	<0.01	<0.01
SULFIDES	MG/KG	<10	<10	<10	<10
SYM-TRINITROBENZENE	MG/KG	<0.1	<0.1	<0.1	<0.1
TETRAETHYL DITHOPYROPHOSPHATE	MG/KG	<0.1	<0.1	<0.1	<0.1
THALLIUM	MG/KG	<3	<3	<2	<2
TIN	MG/KG	<1	<1	<0.5	0.75
TRANS-1,4-DICHLORO-2-BUTENE	MG/KG	<0.01	<0.01	<0.01	<0.01
TRICHLOROFLUOROMETHANE	MG/KG	<0.01	<0.01	<0.01	<0.01
VANADIUM	MG/KG	10	10	8.3	7.5
VINYL ACETATE	MG/KG	<0.01	0.04	<0.01	<0.01
XYLENES	MG/KG	<0.01	0.014	0.18	0.014
ZINC	MG/KG	26	25	24	25

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 3:42 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : QUALITY CONTROL LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	<----------S A M P L I N G P O I N T----------> TRIP BLANK EQUIPMENT 10/18/88 12503
ARSENIC	MG/L	<0.03
BARIUM	MG/L	<0.01
CADMIUM	MG/L	<0.005
CHROMIUM	MG/L	<0.01
LEAD	MG/L	<0.02
MERCURY	MG/L	<0.005
SELENIUM	MG/L	<0.04
SILVER	MG/L	<0.01
ENDRIN	MG/L	<0.01
G-BHC(LINDANE)	MG/L	<0.01
METHOXYCHLOR	MG/L	<0.01
TOXAPHENE	MG/L	<0.01
2,4-DICHLOROPHENOXYACETIC ACID	MG/L	<0.001
2,4,5-TP SILVEX	MG/L	<0.001
ACROLEIN	MG/L	<0.005
ACRYLONITRILE	MG/L	<0.005
BENZENE	MG/L	<0.005
BROMOFORM	MG/L	<0.005
CARBON TETRACHLORIDE	MG/L	<0.005
CHLOROBENZENE	MG/L	<0.005
CHLORODIBROMOMETHANE	MG/L	<0.005
CHLOROETHANE	MG/L	<0.005
CHLOROFORM	MG/L	<0.005
DICHLOROBROMOMETHANE	MG/L	<0.005
1,1-DICHLOROETHANE	MG/L	<0.005
1,2-DICHLOROETHANE	MG/L	<0.005
1,1-DICHLOROETHYLENE	MG/L	<0.005
1,2-DICHLOROPROPANE	MG/L	<0.005
CIS-1,3-DICHLOROPROPENE	MG/L	<0.005
TRANS-1,3-DICHLOROPROPENE	MG/L	<0.005
ETHYLBENZENE	MG/L	<0.005
METHYL BROMIDE	MG/L	<0.005
METHYL CHLORIDE	MG/L	<0.005
METHYLENE CHLORIDE	MG/L	<0.005
1,1,2,2-TETRACHLOROETHANE	MG/L	<0.005
TETRACHLOROETHYLENE	MG/L	<0.005
TOLUENE	MG/L	<0.005
1,2-TRANS-DICHLOROETHYLENE	MG/L	<0.005
1,1,1-TRICHLOROETHANE	MG/L	<0.005
1,1,2-TRICHLOROETHANE	MG/L	<0.005
TRICHLOROETHYLENE	MG/L	<0.005
VINYL CHLORIDE	MG/L	<0.005
ACENAPHTHENE	MG/L	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 3:42 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY
SITE : QUALITY CONTROL
WELLS : < ALL >

FACILITY : SENECA FALLS
LOCATION : SENECA FALLS, N.Y.

PARAMETER	UNIT	TRIP BLANK EQUIPMENT 10/18/88 12503
ACENAPHTHYLENE	MG/L	<0.01
ANTHRACENE	MG/L	<0.01
BENZO(A)ANTHRACENE	MG/L	<0.01
BENZO(A)PYRENE	MG/L	<0.01
BENZO(G,H,I)PERYLENE	MG/L	<0.01
BENZO(K)FLUORANTHENE	MG/L	<0.01
BIS(2-CHLOROETHOXY) METHANE	MG/L	<0.01
BIS(2-CHLOROETHYL) ETHER	MG/L	<0.01
BIS(2-CHLOROISOPROPYL) ETHER	MG/L	<0.01
BIS(2-ETHYLHEXYL) PHTHALATE	MG/L	<0.01
4-BROMOPHENYL PHENYL ETHER	MG/L	<0.01
BUTYL BENZYL PHTHALATE	MG/L	<0.01
2-CHLORONAPHTHALENE	MG/L	<0.01
4-CHLOROPHENYL PHENYL ETHER	MG/L	<0.01
CHRYSENE	MG/L	<0.01
DIBENZO(A,H)ANTHRACENE	MG/L	<0.01
1,2-DICHLOROBENZENE	MG/L	<0.01
1,3-DICHLOROBENZENE	MG/L	<0.01
1,4-DICHLOROBENZENE	MG/L	<0.01
3,3-DICHLOROBENZIDINE	MG/L	<0.01
DIETHYL PHTHALATE	MG/L	<0.01
DIMETHYL PHTHALATE	MG/L	<0.01
DI-N-BUTYL PHTHALATE	MG/L	<0.01
2,4-DINITROTOLUENE	MG/L	<0.01
2,6-DINITROTOLUENE	MG/L	<0.01
DI-N-OCTYL PHTHALATE	MG/L	<0.01
FLUORANTHENE	MG/L	<0.01
FLUORENE	MG/L	<0.01
HEXACHLOROBENZENE	MG/L	<0.01
HEXACHLOROBUTADIENE	MG/L	<0.01
HEXACYCLOCHLOROPENTADIENE	MG/L	<0.01
HEXACHLOROETHANE	MG/L	<0.01
INDENO(1,2,3-CD) PYRENE	MG/L	<0.01
ISOPHORONE	MG/L	<0.01
NAPHTHALENE	MG/L	<0.01
NITROBENZENE	MG/L	<0.01
N-NITROSODIMETHYLAMINE	MG/L	<0.01
N-NITROSODI-N-PROPYLAMINE	MG/L	<0.01
N-NITROSODIPHENYLAMINE	MG/L	<0.01
PHENANTHRENE	MG/L	<0.01
PYRENE	MG/L	<0.01
1,2,4-TRICHLOROBENZENE	MG/L	<0.01
2-CHLOROPHENOL	MG/L	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 3:42 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : QUALITY CONTROL LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	TRIP BLANK EQUIPMENT 10/18/88 12503
2,4-DICHLOROPHENOL	MG/L	<0.01
2,4-DIMETHYLPHENOL	MG/L	<0.01
4,6-DINITRO-O-CRESOL	MG/L	<0.01
2,4-DINITROPHENOL	MG/L	<0.01
2-NITROPHENOL	MG/L	<0.01
4-NITROPHENOL	MG/L	<0.01
P-CHLORO-M-CRESOL	MG/L	<0.01
PENTACHLOROPHENOL	MG/L	<0.01
PHENOL	MG/L	<0.01
2,4,6-TRICHLOROPHENOL	MG/L	<0.01
ALDRIN	MG/L	<0.01
A-BHC	MG/L	<0.01
B-BHC	MG/L	<0.01
D-BHC	MG/L	<0.01
CHLORDANE	MG/L	<0.01
4,4'-DDT	MG/L	<0.01
4,4'-DDE	MG/L	<0.01
4,4'-DDD	MG/L	<0.01
DIELDRIN	MG/L	<0.01
A-ENDOSULFAN	MG/L	<0.01
B-ENDOSULFAN	MG/L	<0.01
ENDOSULFAN SULFATE	MG/L	<0.01
ENDRIN ALDEHYDE	MG/L	<0.01
HEPTACHLOR	MG/L	<0.01
HEPTACHLOR EPOXIDE	MG/L	<0.01
PCB-1242	MG/L	<0.1
PCB-1254	MG/L	<0.1
PCB-1221	MG/L	<0.1
PCB-1232	MG/L	<0.1
PCB-1248	MG/L	<0.1
PCB-1260	MG/L	<0.1
PCB-1016	MG/L	<0.1
2,3,7,8-TCDD	MG/L	<0.01
0,0,0-TRIETHYL PHOSPHOROTHIO	MG/L	<0.01
0,0-DIETHYL 0-2-PYRAZINYL	MG/L	<0.01
1,1,1,2-TETRACHLOROETHANE	MG/L	<0.005
1,2,3-TRICHLOROPROPANE	MG/L	<0.005
1,2-DIBROMO-3-CHLOROPROPANE	MG/L	<0.005
1,2-DIBROMOETHANE	MG/L	<0.005
1,4-DIOXANE	MG/L	<0.005
1,4-NAPHTHOQUINONE	MG/L	<0.01
1-NAPTHYLAMINE	MG/L	<0.01
2,3,4,6-TETRACHLOROPHENOL	MG/L	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 3:42 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY
SITE : QUALITY CONTROL
WELLS : < ALL >

FACILITY : SENECA FALLS
LOCATION : SENECA FALLS, N.Y.

PARAMETER	UNIT	TRIP BLANK EQUIPMENT 10/18/88 12503
2,4,5 - T	MG/L	<0.001
2,4,5-TETRACHLOROBENZENE	MG/L	<0.01
2,4,5-TRICHLOROPHENOL	MG/L	<0.01
2,6-DICHLOROPHENOL	MG/L	<0.01
2-HEXANONE	MG/L	<0.005
2-METHYLNAPHTHALENE	MG/L	<0.01
2-NAPTHYLAMINE	MG/L	<0.01
3,3'-DIMETHYLBENZIDINE	MG/L	<0.01
3-METHYLCHOLANTHRENE	MG/L	<0.01
4-AMINOBIPHENYL	MG/L	<0.01
4-METHYLPHENOL (MCRESOL)	MG/L	<0.01
4-NITROQUINOLINE 1-OXIDE	MG/L	<0.01
5-NITRO-O-TOLUIDINE	MG/L	<0.01
7,12-DIMETHYBENZ(A)AN	MG/L	<0.01
ACETONE	MG/L	<0.005
ACETONITRILE	MG/L	<0.005
ACETOPHENONE	MG/L	<0.01
ACETYLAMINOFLOURENE	MG/L	<0.01
ALLYL CHLORIDE	MG/L	<0.005
ALPHA,ALPHA-DIMETHYLPHENETHY	MG/L	<0.01
ANILINE	MG/L	<0.01
ANTIMONY	MG/L	<0.02
ARAMITE	MG/L	<0.01
BENZYL ALCOHOL	MG/L	<0.01
BERYLLIUM	MG/L	<0.005
CARBON DISULFIDE	MG/L	<0.005
CHLOROBENZILATE	MG/L	<0.01
CHLOROPRENE	MG/L	<0.005
COBALT	MG/L	<0.01
COPPER	MG/L	<0.01
CYANIDE, TOTAL	MG/L	0.002
DIALLATE	MG/L	<0.01
DIBENZOFURAN	MG/L	<0.01
DICHLORODIFLUOROMETHANE	MG/L	<0.005
DIMETHOATE	MG/L	<0.01
DINOSEB	MG/L	<0.01
DIPHENYLAMINE	MG/L	<0.01
DISULFOTON	MG/L	<0.01
ETHYL METHACRYLATE	MG/L	<0.005
ETHYL METHANESULFONATE	MG/L	<0.01
FAMPHUR	MG/L	<0.01
HEXACHLOROPHENE	MG/L	<0.01
HEXACHLOROPROPENE	MG/L	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 3:42 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY
SITE : QUALITY CONTROL
WELLS : < ALL >

FACILITY : SENECA FALLS
LOCATION : SENECA FALLS, N.Y.

PARAMETER	UNIT	TRIP BLANK EQUIPMENT 10/18/88 12503
ISOBUTANOL	MG/L	<0.005
ISODRIN	MG/L	<0.01
ISOSAFROLE	MG/L	<0.01
KEPONE	MG/L	<0.01
M-DINITROBENZENE	MG/L	<0.01
M-NITROANILINE	MG/L	<0.01
METHACRYLONITIRLERILE	MG/L	<0.005
METHAPYRILENE	MG/L	<0.01
METHYL ETHYL KETONE	MG/L	<0.005
METHYL IODIDE	MG/L	<0.005
METHYL ISOBUTYL KETONE	MG/L	<0.01
METHYL METHACRYLATE	MG/L	<0.005
METHYL METHANESULFONATE	MG/L	<0.01
METHYL PARATHION	MG/L	<0.01
METHYLENE BROMIDE	MG/L	<0.005
N-NITROSODI-N-BUTYLAMINE	MG/L	<0.01
N-NITROSODIETHYLAMINE	MG/L	<0.01
N-NITROSOMETHYLAMINE	MG/L	<0.01
N-NITROSOMORPHOLINE	MG/L	<0.01
N-NITROSOPIPERIDINE	MG/L	<0.01
N-NITROSOPYRROLIDINE	MG/L	<0.01
NICKEL	MG/L	<0.01
O-CRESOL	MG/L	<0.01
O-NITROANILINE	MG/L	<0.01
O-TOLUIDINE	MG/L	<0.01
P(DIMETHYLAMINO)AZOB	MG/L	<0.01
P-CHLORANILINE	MG/L	<0.01
P-CRESOL	MG/L	<0.01
P-NITROANILINE	MG/L	<0.01
P-PHENYLENEDIAMINE	MG/L	<0.01
PARATHION	MG/L	<0.01
PENTACHLOROBENZENE	MG/L	<0.01
PENTACHLOROETHANE	MG/L	<0.005
PENTACHLORONITROBENZENE	MG/L	<0.01
PHENACETIN	MG/L	<0.01
PHORATE	MG/L	<0.01
PICOLINE	MG/L	<0.01
POLYCHLORINATED DIBENZ-P-DIO	MG/L	<0.01
POLYCHLORINATED DIBENZOFURANS	MG/L	<0.01
PRONAMIDE	MG/L	<0.01
PROPIONITRILE	MG/L	<0.005
PYRIDINE	MG/L	<0.1
SAFROLE	MG/L	<0.01

S A M P L I N G R O U N D S U M M A R Y (SRS) TUE, DEC 20, 1988, 3:42 PM

RESULTS BY FACILITY, SITE AND SAMPLING POINT.
FOR YEAR 88 ROUND NO. 01 PURPOSE: RCRA CLSR

CLIENT : PHILIPS COMPANY FACILITY : SENECA FALLS
SITE : QUALITY CONTROL LOCATION : SENECA FALLS, N.Y.
WELLS : < ALL >

PARAMETER	UNIT	TRIP BLANK EQUIPMENT 10/18/88 12503
STYRENE	MG/L	<0.005
SULFIDES	MG/L	<0.1
SYM-TRINITROBENZENE	MG/L	<0.01
TETRAETHYL DITHOPYROPHOSPHATE	MG/L	<0.01
THALLIUM	MG/L	<0.06
TIN	MG/L	<0.01
TRANS-1,4-DICHLORO-2-BUTENE	MG/L	<0.005
TRICHLOROFLUOROMETHANE	MG/L	<0.005
VANADIUM	MG/L	<0.01
VINYL ACETATE	MG/L	<0.005
XYLENES	MG/L	<0.005
ZINC	MG/L	<0.01

APPENDIX IV

METHODOLOGY FOR CALCULATING INORGANIC AND ORGANIC CONTAMINANT CONCENTRATION ACTION LEVELS FOR SOILS

PHILIPS DISPLAY COMPONENTS CORPORATION SENECA FALLS, NEW YORK

SOIL INGESTION CALCULATION

Soil ingestion calculations were made for a child, adult and a lifetime:

For a child, as a conservative estimate, it is assumed* a 17 kg child consumes 200 mg/day of soil. This results in a soil intake rate of 11.8 mg/kg/day (1.18×10^{-2} gm/kg/day).

For an adult, it is assumed* a 70 kg adult consumes 10 mg/day of soil. This results in a soil intake rate of 0.143 mg/kg/day (1.43×10^{-4} gm/kg/day).

For a lifetime value, the total mg of soil ingested is calculated based on assuming the child soil ingestion rate for five years and the adult soil ingestion rate for 65 years. This number is divided by the average weight of a human over a lifetime. The result is a soil intake rate of 0.356 mg/kg/day (3.56×10^{-4} gm/kg/day).

* Soil ingestion rate assumptions based on Table A-5 of the Superfund Exposure Assessment Manual, April 1988.

SOIL INGESTION CLEANUP CONCENTRATION CALCULATION

For this calculation, the following formula is used:

$$\text{Soil Cleanup Concentration} = \frac{A}{C} \times \frac{1{,}000 \text{ gm/kg}}{L}$$

For a carcinogen:

A = Acceptable cancer risk (10^{-6})
C = Carcinogen potency factor
L = Average daily soil intake for a child, adult or lifetime in gm/kg/day.

For a noncarcinogen:

$\frac{A}{C}$ = Reference dose or similar literature standard
L = Average daily soil intake for a child, adult, or lifetime in gm/kg/day.

A soil cleanup concentration may be calculated for a child, adult or lifetime. The calculated child soil ingestion number is the most conservative value and the adult ingestion number the least conservative value. The lifetime value falls within this range.

SOIL LEACHING POTENTIAL
MAXIMUM VALUE CALCULATION

To estimate leaching potential, a maximum allowable soil concentration is calculated from the definition equation for the organic carbon partition coefficient (Koc). The Koc is a measure of relative sorption potential for aqueous pathways. The Koc indicates the tendency of an organic chemical to be adsorbed and is largely independent of soil properties. Koc is expressed as the ratio of amount of chemical adsorbed per unit weight of organic carbon to the chemical concentration in solution at equilibrium. The equation for Koc is as follows:

$$Koc = \frac{\text{mg compound/kg organic carbon}}{\text{mg dissolved/liter solution (mg/L)}}$$

If the equation is rearranged to

$$\frac{\text{mg compound}}{\text{kg organic carbon}} = Koc \times mg/L,$$

then a soil concentration ratio may be calculated. The calculation is made by inserting a water quality standard into the equation. As long as the Koc for the compound is known or may be calculated, then a soil concentration can be calculated. This calculated value assumes that soil is 100 percent organic carbon. As this is not the case in almost all instances, this value therefore represents an approximate maximum allowable cleanup concentration. In reality if leaching into groundwater is of high potential at a site, the proposed soil cleanup concentration would most likely be below this value.

allow Soil Conc = (WQS)(Koc)(% Organic Carbon)