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**RI/FS OVERSIGHT FIELD TRIP REPORT
FORMER WESTINGHOUSE ELEVATOR PLANT
GETTYSBURG, ADAMS COUNTY, PENNSYLVANIA**

*Contract No. 68-W9-0005 (TES VIII)
Work Assignment No. C03018
Project No. P021-C01*

Prepared For:
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841 Chestnut Street
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October 30, 1992

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AR300349

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1.0 INTRODUCTION

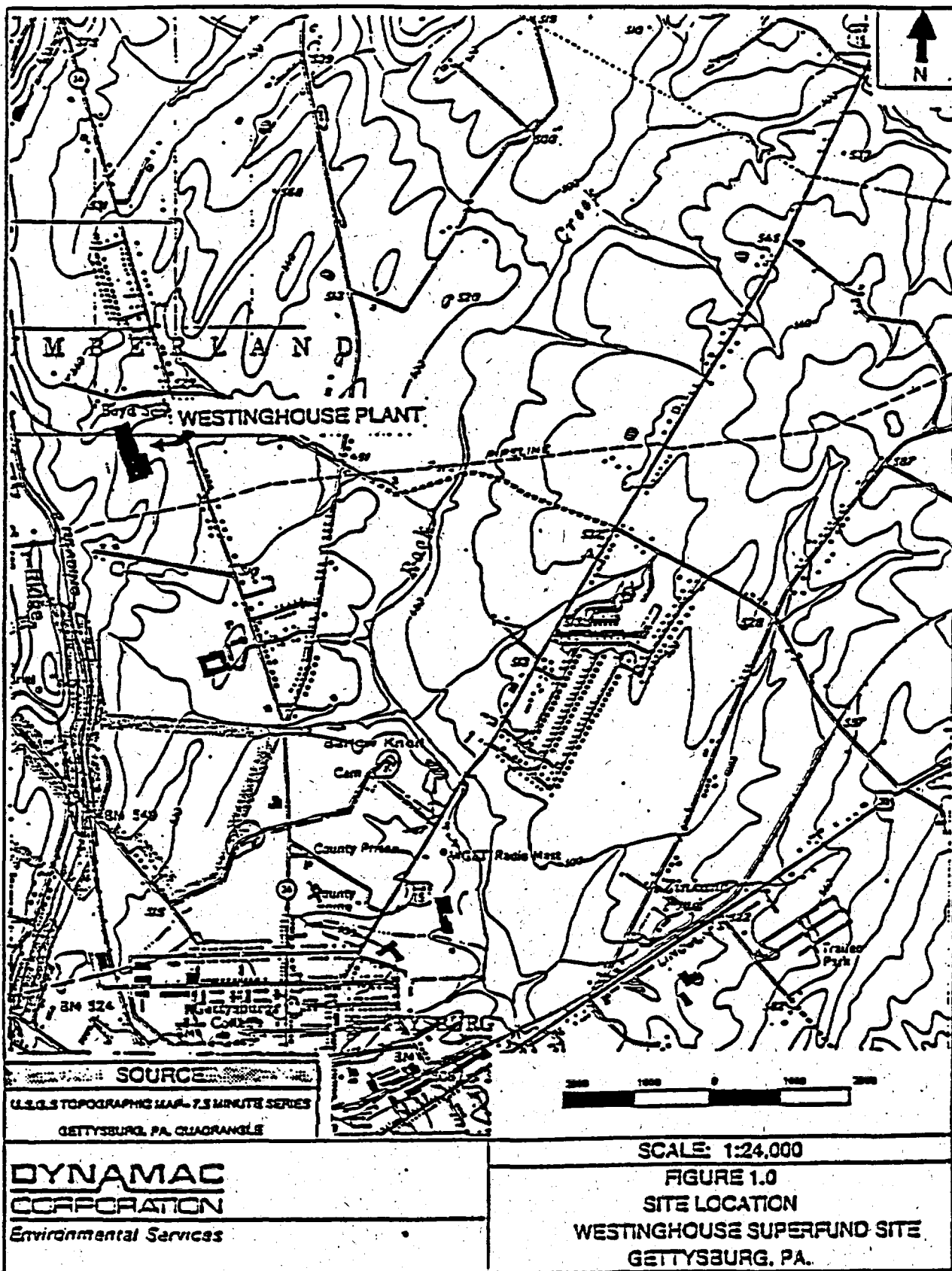
Dynamac Corporation (Dynamac) received Work Assignment No. C03018 to provide support to the U.S. Environmental Protection Agency (EPA) Region III office, under Contract No. 68-W9-0005 (TES VIII), during an additional investigation for the CERCLA Remedial Investigation/Feasibility Study (RI/FS) at the former Westinghouse Elevator Plant (the Site) located on Biglerville Road approximately 1.5 miles north of the City of Gettysburg, Adams County, Pennsylvania. Paul C. Rizzo and Associates, Inc. (PCR) was contracted by Westinghouse Electric Corporation, the Potentially Responsible Party (PRP), to conduct an additional soils investigation adjacent to a 4,000-gallon above-ground solvent storage tank, located in the Courtyard area of the Site, to determine the extent of contamination resultant of a solvent spill which occurred in May 1991.

1.1 SITE SPECIFIC BACKGROUND

The Site is located along the west side of Biglerville Road (Route 34) approximately 1.5 miles north of downtown Gettysburg, Adams County, Pennsylvania. The Site coordinates are latitude 39° 51' 08" north and longitude 77° 14' 21" west. The Site is bounded to the south by property that is part of the Gettysburg Battlefield National Park; and to the west, north and east by residential and small commercial properties. The closest private residences are approximately 800 feet east of the plant. The Site is identified in Figure 1.0.

The Westinghouse Plant was constructed in 1968 to manufacture elevator components. The elevators were processed through a paint and degreasing line that used chlorinated solvents. Activities included parts degreasing, trichloro phosphatizing (to 1975), painting, drying, machining, and assembly and shipping of elevator parts. Materials used in these processes were solvents such as trichloroethene (TCE); 1,1,1-trichloroethane (TCA); phosphoric acid, lead chromate primer; and other paint by-products.

In 1983, in response to concerns presented by the Adams County Community Environmental Control Board, the Pennsylvania Department of Environmental Resources (PADER) conducted an investigation that identified five contaminated sites in the Gettysburg area, all potentially associated with the Westinghouse Plant.



Between 1983 and 1984 numerous PADER investigations and sampling events were conducted, both on- and off-Site, in order to more clearly define the magnitude of contamination. In 1984, as a result of data generated from these activities, Westinghouse initiated certain remedial actions, including the installation of water mains along Biglerville Road, Boyd's School Road, Cedar Avenue, Maple Avenue, and Apple Avenue to provide residents with access to the public water supply; and the installation and operation of an on-Site air stripper to treat on-Site groundwater.

On March 10, 1987, Westinghouse entered into a Consent Agreement with EPA to perform a Remedial Investigation and Feasibility Study of the Site. The Remedial Investigation was completed in two phases: a) Phase I determined the Site contaminants and b) Phase II investigated the extent of contamination. The Phase II Remedial Investigation Report was completed in June 1991 and a draft Feasibility Study was submitted to EPA in October 1991, which needed substantial modifications. Additionally, finalization of the report was further delayed by the need to investigate soil contamination from a TCA spill which occurred on May 3, 1991, at which time, Schindler Elevator Corporation (Schindler) was operating the Plant. Schindler Elevator removed contaminated soils and sampled the area to verify the cleanup at PADER's request. Analytical results for composite soil samples taken from the excavation area yielded elevated VOCs as follows:

- 1,1,1-trichloroethane - 3,350 $\mu\text{g}/\text{kg}$;
- 1,1-dichloroethane - 62 $\mu\text{g}/\text{kg}$; and
- 1,1-dichloroethylene - 355 $\mu\text{g}/\text{kg}$.

No further remedial efforts have been initiated at the Site in relation to the May 1991 spill.

1.2 PURPOSE AND SCOPE OF OVERSIGHT ACTIVITIES

The purpose of the recently tasked activities under this work assignment was for Dynamac to oversee activities at the Site conducted by PCR in order to document PCR's compliance with the EPA-approved Work Plan. Additionally, Dynamac was tasked to collect soil split samples for comparative laboratory analysis under the Contract Laboratory Program (CLP).

Specifically, Dynamac was tasked by EPA to oversee the drilling and sampling of a number of shallow to intermediate soil borings in the Courtyard area where the solvent spill occurred.

Soil samples would be analyzed for Target Compound List (TCL) volatile organics via EPA CLP Statement of Work. In addition to split samples, Dynamac was to collect the necessary Quality Assurance/Quality Control (QA/QC) samples such as trip blanks, equipment rinse blanks, duplicates, and matrix spike/matrix spike duplicates at the frequencies required by the CLP. This report summarizes the oversight and sample collection effort performed for this task.

2.0 OVERSIGHT ASSIGNMENT

This section presents summaries of sampling activities conducted by PCR and overseen by Dynamac on September 28 and 29, 1992. Appendix A of this report presents copies of Dynamac's fieldbook log notes for these two days.

Monday September 28, 1992

On this date, the following individuals were present at the Site:

Frank Vavra	U.S. EPA Region III
Scott Aharonian	Dynamac Corporation
Bill Baughman, P.G.	PCR
Doug Spicuzza	PCR
Samuel Sloan	PADER
Tony Martinelli	PADER
Jim Spontna	PADER
Rodney Myers	R.E. Wright Associates, Inc. (Wright) (consultant to Schindler)

Weather: Sunny; upper 60's to low 70's.

Dynamac personnel arrived on-Site at approximately 0800 hours. At this time, no other personnel had arrived. Dynamac personnel signed-in at the Site and met with Mr. Edward Sherman of Schindler. Mr. Sherman stated that drilling activities would commence at approximately 1000 hours; therefore, Dynamac departed the Site at 0900 hours and returned at approximately 0945 hours, during which time Dynamac personnel prepared CLP sample paperwork. When Dynamac personnel returned to the Site, representatives from PCR, Messrs. Baughman and Spicuzza, and Eichelberger's drillers had arrived. PCR and Dynamac personnel discussed the activities to be performed for the next two days, shortly after which PCR and Eichlberger prepared for drilling operations. At approximately 1030 hours PADER representatives, Messrs. Sloan, Spontna, and Martinelli, arrived at the Site to observe drilling operations. At approximately 1100 hours, Dynamac was informed that PCR did not have the proper bottleware on-Site therefore drilling operations would be suspended until the proper bottleware was delivered.

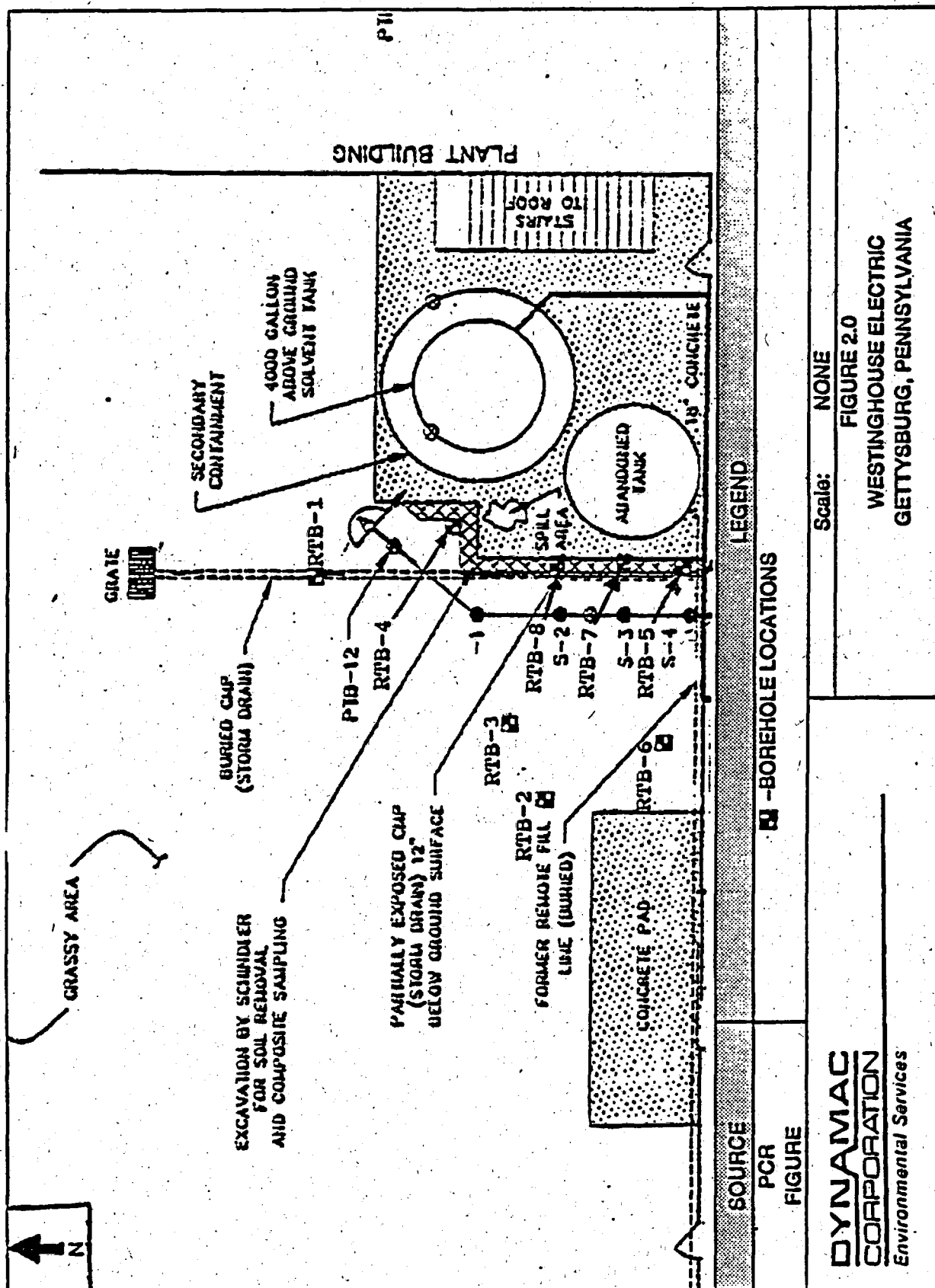
Mr. Myers of R.E. Wright arrived on-Site to represent Schindler during drilling operations. Mr. Vavra of the EPA, arrived on-Site at approximately 1230 hours. From 1250 hours to 1320 hours, all on-Site personnel discussed the locations of the proposed soil borings. In order to determine the preferential flow direction of the former spill from the storage tank pad (Reference P01, Appendix B), PCR personnel poured a small quantity of water (approximately 5 gallons)

onto the pad. The water was observed to flow primarily in a northeast direction. Based on this flow pattern and data from previous investigations of this spill area, Mr. Vavra and PCR personnel located soil borings RTB-1 through RTB-8 to intersect any potential solvent plume that may be migrating outward from the tank pad and to determine any existing contamination resulting from Westinghouse's former site operations. Figure 2.0 presents the soil boring locations.

From approximately 1320 hours to 1330 hours, the contractor, as directed by PCR, excavated a small test pit between the 4,000-gallon tank pad and another concrete pad located to the southwest of the tank pad and along the north wall of the plant building. This test pit was excavated to expose a buried fill line so that PCR could screen the soils in this area for volatile organic compounds using an HNU. The readings obtained from the HNU would be used to determine the location of a PCR soil sample for analysis. No elevated HNU measurements were observed. PCR collected a soil sample under a pipe fitting mid-way along the fill line for analysis.

At 1330 hours the contractor began drilling soil boring RTB-01. Boring RTB-01 was completed at approximately 1400 hours. Drilling activities entailed the advancement of the soil boring via 6-inch diameter hollow-stem augers using a truck-mounted drill rig. During drilling activities, continuous split-spoon samples were obtained from 0 to 10 feet below grade (please note that the completion depth of each boring varied), in two foot intervals, using clean, decontaminated, stainless steel split-spoon samplers. After each split-spoon sample was obtained, PCR collected soil samples from the split-spoon for headspace analysis and laboratory analysis. PCR obtained the soil samples using clean, decontaminated steel trowels. The soil samples for headspace analysis were placed in 4-ounce jars and capped with aluminum foil and a screw-down lid. The soil samples for possible laboratory analysis were placed in (1) 4-oz jar and placed in an ice-filled cooler for temporary storage. Headspace analysis was performed on each sample after sufficient time had elapsed for volatilization of organic vapors to occur. To perform the headspace analysis, PCR personnel proceeded by first unscrewing and removing the lid of the headspace sample jar to be tested, and then inserting the probe of the HNU through the aluminum foil into the headspace area to measure organic vapor concentrations. Based on headspace measurements, PCR selected the soil sample from the interval that had the highest HNU readings for laboratory analysis. Dynamac did not obtain a split sample from this location, but did collect a rinsate blank, as did R.E. Wright, from PCR's sample trowel following equipment decontamination. Dynamac's sample was placed in an ice-filled cooler for storage until shipped to the laboratory for analysis. Table 2.0 presents soil boring information and headspace readings. Table 2.1 presents Dynamac and PCR's split sample information.

Prior to beginning the next soil boring, the drilling crew cleaned the drilling equipment. All down-hole drilling equipment (i.e. augers and split spoons) was cleaned using a high-pressure



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Table 2.0
Soil Boring and Headspace Analysis Information

Soil Boring	Depth	Description	Headspace Readings
RTB-01	0-2'	Silty organic soil w/asphalt material layer	0.0 ppm
	2-4'	Silty clay w/small gravel	0.0 ppm
	4-6'	Moist, Silty clay w/small gravel	*9.0 ppm
	6-8'	Moist, Silty clay w/small gravel	7.0 ppm
	8-10'	Silty clay compact w/small gravel	1.0 ppm
RTB-02	0-2'	Silty organic soil w/asphalt material layer	0.5 ppm
	2-4'	Silty clay w/small gravel	*2.0 ppm
	4-6'	Moist, Silty clay w/small gravel	0.5 ppm
	6-8'	No Recovery	No Recovery
RTB-3	0-2'	Silty organic soil w/asphalt material layer	1.0 ppm
	2-4'	Silty clay w/small gravel	*6.5 ppm
	4-6'	Moist, Silty clay w/small gravel	4.5 ppm

* Sample PCR & R.E. Wright shipped for analysis

** Sample Dynamac split and PCR and R.E. Wright shipped for analysis

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TABLE 2.0 (continued)

Soil Boring	Depth	Description	Headspace Readings
	6-8'	Moist, Silty clay w/small gravel	78.0 ppm
	8-8.8'	Moist, Silty clay w/small gravel	*200.0 ppm
RTB-4	1.5-3.5'	Organic, Silty clay loam w/gravel	< 1.0 ppm
	3.5-5.5'	Silty clay w/small gravel	*1.2 ppm
	5.5-7.5'	Silty clay w/small gravel	100.0 ppm
	7.5-9.5'	Moist silty clay w/small gravel	**250.0 ppm
	9.5-9.9'	silty w/little clay mix	7.0 ppm
RTB-5	0.5-2.5'	Organic loam w/gravel	0.5 ppm
	2.5-4.5'	Silty clay mix w/gravel	0.5 ppm
	4.5-6.5'	Moist silty clay w/gravel	6.5 ppm
	6.5-8.5'	Silty clay w/gravel	60.0 ppm
	8.5-9.5'	Silty clay w/little gravel	**300.0 ppm
RTB-6	0-2'	Organic loam w/gravel mix	0.5 ppm
	2-4'	Silty clay w/gravel	2.0 ppm

* Sample PCR & R.E. Wright shipped for analysis

** Sample Dynamac split and PCR and R.E. Wright shipped for analysis

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TABLE 2.0 (continued)

Soil Boring	Depth	Description	Headspace Readings
	4-6'	Silty clay w/gravel	1.0 ppm
	6-8'	Silty clay w/gravel	40.0 ppm
	8-10'	Silty clay w/gravel	*400.0 ppm
RTB-7	1.5-3.5'	Organic loam w/gravel mix	2.0 ppm
	3.5-5.5'	Silty clay w/gravel	*3.0 ppm
	5.5-7.5'	Silty clay w/gravel	2.0 ppm
	7.5-9.4'	Silty clay w/gravel	*400.0 ppm
RTB-8	1.5-3.5'	Organic loam w/gravel mix	5.0 ppm
	3.5-5.5'	Silty clay w/gravel	*10.0 ppm
	5.5-7.5'	Silty clay w/gravel	30.0 ppm
	7.5-9.3'	Silty clay w/gravel	*250.0 ppm

* Sample PCR & R.E. Wright shipped for analysis

** Sample Dynamac split and PCR and R.E. Wright shipped for analysis

5, 1
7, 40
9, 100
1, .5
3, 2
5, 2
7, 50
9, 100
1, .5
3, 7
5, 15
7, 1
9, 300

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Table 2.1
Sample Information
Former Westinghouse Elevator Plant

DYNAMAC SAMPLE ID #	CLP NUMBER	TIME*	DATE COLLECTED	QC SAMPLES	DESCRIPTION	PCR SAMPLE ID #
WH-RB-01-01	CDS-79	1440	9/28/92	Rinsate Blank	DI-H ₂ O	E9-B-1
WH-TB-01-01	CDS-80	1300	9/25/92	Trip Blank	DI-H ₂ O	TB-B-1
WH-SB-01-01	CDS-76	0800	9/29/92	MS/MSD	Silty clay w/crushed gravel mix	RTB-4-S-2 RTB-4-S-4
WH-SB-02-01	CDS-77	0850	9/29/92	--	Silty clay w/little gravel mix	RTB-5-S-5
WH-SB-02-02	CDS-78	0850	9/29/92	DUP	Silty clay w/little gravel mix	RTB-5-S-5

* Military Time

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October 30, 1992

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steam cleaner. Steam cleaning activities occurred on a plastic decontamination pad constructed by Eichelberger, located in the southwest corner of the courtyard (Reference PO2 Appendix B). After the collection of headspace and laboratory samples, PCR decontaminated their sampling equipment. Decontamination procedures were as follows:

- Equipment scrubbed with detergent water (Alconox),
- Rinsed with distilled water,
- Rinsed with methanol,
- Air-dried, and
- Rinsed with distilled water.

Between 1450 hours and 1630 hours, the contractor drilled soil borings RTB-02 and RTB-03. The soil borings were drilled and split-spoon sampled in the same manner as for RTB-01. Additionally, the collection of headspace and potential laboratory samples, as well as the performance of headspace analysis, were conducted in the same manner as before. Dynamac did not obtain a split soil sample from either boring; however, R.E. Wright personnel obtained a split sample from all the soil boring locations. Please refer to Tables 2.0 and 2.1 for soil boring and headspace information and sample information, respectively.

Drilling and sampling operations were completed by 1645 hours, at which time Dynamac personnel departed the Site.

Tuesday September 29, 1992

On this date, the following personnel were present on-Site:

Frank Vavra	U.S. EPA Region III
Scott Aharonian	Dynamac Corporation
Bill Baughman, P.G.	PCR
Doug Spicuzza	PCR
Rodney Myers	R.E. Wright Associates, Inc.

Weather: Sunny; upper 60's to low 70's.

All personnel from the previous day, with the exception of the PADER representatives, arrived on-Site by 0730 hours. Soil borings RTB-04 through RTB-08, respectively, were drilled between 0800 and 1400 hours, with a one-hour break for lunch at 1200 hours. Mr. Vavra departed the Site at approximately 0945 hours. Soil boring drilling and sampling of RTB-04 through RTB-08 (Reference P03 - P011 Appendix B) were conducted in the same manner as the previous day. Additionally, the decontamination of drilling and sampling equipment was

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conducted consistent with procedures of the previous day. Dynamac personnel obtained soil split samples from soil borings RTB-04 (7.5' to 9.5' interval) and RTB-05 (8.5' to 9.9' interval). R.E. Wright personnel obtained split samples from the same locations as PCR for all the soil borings. Please refer to Tables 2.0 and 2.1 for soil boring and headspace information and sample information, respectively. Appendix B of this report presents the photographic log of drilling operations conducted on this date.

Following the completion of drilling and sampling activities, Dynamac personnel prepared the samples for shipment in accordance with CLP protocol. The samples were transported, by Dynamac personnel, on the same day to Federal Express for overnight delivery to Industrial Environmental Analysts, Inc. in Cary, North Carolina. Copies of the Chain of Custody and the Federal Express Airbill are included as Appendix C.

3.0 DIFFICULTIES ENCOUNTERED AND DEVIATIONS FROM WORK PLAN

PCR presented a proposed soil boring location work plan, which was outlined in a September 18, 1992 submittal to the USEPA. Standard Operating Procedures (SOP) were not specified in great detail, due to the narrow scope of work. Certain difficulties that were not anticipated, were encountered during the sampling efforts and are documented below.

3.1 SAMPLE VOLUME

It was difficult for Dynamac, PCR and R.E. Wright to collect the required CLP sample volume due to three parties split sampling from one split spoon.

Dynamac contacted Regional Sample Control Center (RSCC) to inform them of the field difficulties associated with the deficient amount of sample volume. RSCC instructed Dynamac to ship the volume that they were able to collect and indicate on the Chain Of Custody (COC) that sample volume is deficient due to field conditions. RSCC stated that by noting the COC accordingly the integrity of the samples shipped would not be compromised.

3.2 SAMPLE TECHNIQUE

When collecting split samples from split spoons, both PCR and R.E. Wright used techniques that may compromise the integrity of a true split sample.

PCR would collect complete horizontal core sections of the split spoon sample rather than sectioning each core. By sampling this way, PCR left an empty gap in the split spoon's core that both R.E. Wright and Dynamac was left to split sample. Essentially, PCR's samples were obtained from a different layer than the R.E. Wright and Dynamac samples.

R.E. Wright collected their samples without using a deconned sample trowel or scoopula. R.E. Wright's sampler would break up the soil with his hands which were covered by latex gloves and fill their bottleware by hand. Dynamac was subjected to sample the same soil R.E. Wright was touching.

Methods of sampling were never specified in detail for this particular project, and as a result these sample techniques may render the comparative quality of the split sample analytical results somewhat questionable.

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APPENDIX A
FIELD LOG BOOK NOTES

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Westinghouse Lab. 4/28/72
Arrived on site. No present-
ives from PCH or Westinghouse
enviro. group are yet present
on site. Weather is sunny
and cool about 65-70°.

0830 - Signed in and met with
Col. Charman w/ Westinghouse
Enviro group. Col. informed
me that no activities will
begin until 10:00 AM. ~~Departing~~

0900 - Dynamac departed site to
check in to a local hotel and
work on C.P. paper work

0945 - Returned to site after checking
in to hotel and making
food & arrangements for a 5:00 PM
pick up at the hotel. That is
the latest grab up time for
would pick up. If a later
time is need samples would
have to be delivered to York PA
which is 1 hr away. They are
open until 7:30 PM. Met
w/ Bill Baughman & Doug Aminger
Dall Co. Enabelburger (son)
was also present on site.

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SSA 9/28/72

534 Westinghouse Elec. 9/28/52
1020 PA DER arrived on site.
Representatives from DER are
to follow:
Samuel Slogin.
Tony Martinelli.
Jim Spontag.

1100 - Dynamac was informed by
Ed Cherman that PCR should
not account have the
appropriate bottle were on-site
for sampling, site activities
will be delayed until dynamac
lets send a courier out
to the site with the correct
bottle - more.

1105 - Dynamac departed site w/
DER representatives for lunch.

1216

Returned to site & met w/
Rooney G. Myers from R.E.
Might. Rooney will be
representing the shoring - ^{ORC}
who is leaving the property
from Westinghouse. PCR
is representing Westinghouse.

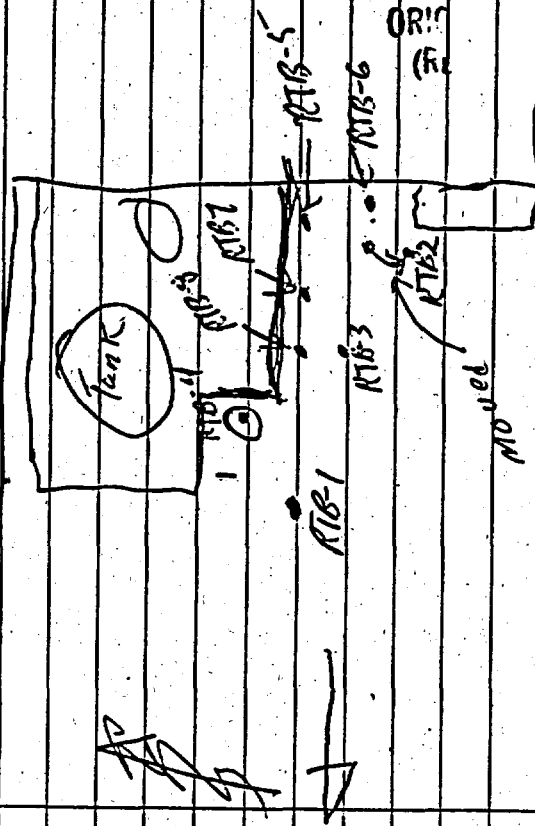
55A

Washington, D.C.

95052

1230 - Frank Weaver arrived on site

1250 - All site personnel gathered around the solvent tank where the product spill occurred. PCR poured water ^{into the tank} to dilute the concrete spill to determine the flow of the spill. The water flow was used to determine 3 of the bore hole locations. Frank Weaver & PCR worked together to determine borehole locations. Boreholes are located as follows:

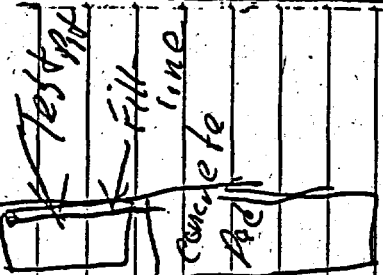
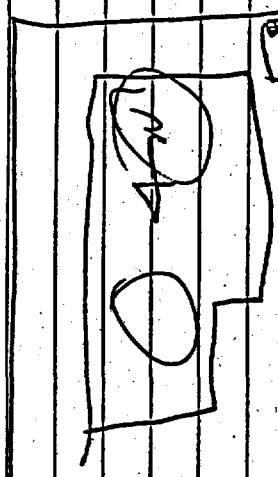


CSA G-10-102

Westinghouse Electric

9/28/92

5th



Contractor began
dry plugging a test pit
in between the tank and
and concrete pad to
determine high readings
PID. ~~Base hole location~~
along a fill line buried
6-12" below grade. MR
will collect sample under a
fitting connector on the fill line.
0.011M reading off of soil on
fill line.

Dillars set up on RTB-01
first borehole location. ~~Dynamometer~~
will not be taken a solid
this location

2-4/0.11M off of H&O.

4-6/0.011M " 11 off 1
bore hole

about 100

(55A) Keatinghouse Electric (9/28/52)
1410 - 6' 8" pit

1416 R1601 Head space in as follows:

Depth Sample	Reading (P12)	PPM
0-2'	5-1	0.0
2-4'	5-2	0.0
* 4-6'	5-3	9.0
6-8'	5-4	7.0
8-10'	5-5	1.0

Sample to do Sh1213

1440* Collected Kinaste Blank over
decomposed material.

Benjamin #1 P124 - R124
WH-16-01-01 (Eq. 6-1) (Equipment Bent)

1450 - Begin RTB-02 Borehole
from coal

1455 - 0-2' silty w/ asphalt material
was buried in spoon

2-4' - silty clay w/ small gravel,

4-6' - saturated soils, silty
clay with small pebbles and
a large rock in shoe of
split spoon which may indicate
presence of bedrock at this depth

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6-8' No recovery.

S. C. A. 9/28/52

SSX	Depth	Sample	Readings
1517	0-2	3-1	1.5
	2-4	5-2	2
	4-6	5-3	1.5
	6-8	5-4	Ø recovery
1537	Began setting up on RTB-3		
1540	Took first spade spoon		
	0-2 - Organic material silty loam w/ 15% clay		
15430	DER departed the site		
1545	2-4" spoon silty clay w/ small pebbles 3/4 - 1 1/2 inches		
	4-6 spoon silty clay, gravel		
	6-8 - silty clay w/ a layer of gravel.		
	8-10		
1600	Took spade RTB-3		
	Depth	Sample	Readings
	0-2	5-1	1.0 PPM
	2-4	5-2	6.5 PPM
	4-6	5-3	4.5 PPM
	6-8	5-4	78.5 PPM
	8-10	5-5	200 PPM
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1626

Westinghouse Elec

9/28/52

1626

WCR Prepared about sample for shipment. RE Wright took considered obtaining split sample to WCR. Dapman only split on private sample. Dreller secured equipment for the day.

1640

WCR - Made arrangements to meet at 0730 tomorrow morning

1643

Departed Mt side.

9/28/52
J. H. Dapman
J. H. Dreller
J. H. Wright

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534 Weibinghouse Eloc. 9/29/82
 Arrived on site. All members
 from yesterday were present &
 except for Ross. From DE R.
 weather is sunny 65-70°.
 Activities will begin w/ the recovery
 boring of RTB-4. Dayman
 will be taking a split sample
 at this location.

0800 RTB-4 samples will be collected
 from a split open every 2 feet
 with each rock sample will
 be placed into 240 ml. vial
 w/ a scoop. RR are using
 (1) 402 jars and a trowel. RE is right
 and using (1) 402 ml vial and
 latex gloves over fingers to sample.
 1:25-1:30 9' recovery / organic analysis
 silty clay loam w/ gravel

2:45-3:15 7-4 1/2' recovery / silty clay
 w/ some gravel & pebbles.

5:15-7:15 4-6 1/2' silty clay with a crush
 gravel layer.
 7:15-8:15
 7-8 1/2' 1.4' recovery / silty clay

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55 87/29/87

Westinghouse Lab. (27 7/29/62)
 9.5 - 5.9' = ~~2.6~~ 1.7' recovery
 Head space analysis RTB-4

Depth	Sample	Residue
1.5-3.5	S-1	<1 PPM
3.5-5.5	S-2	1.2 PPM
5.5-7.5	S-3	100 PPM
7.5-9.5	S-4	250 PPM
9.5-11.5	S-5	2250 PPM

Lab. # RTB-4
 RTB-4-524
 (4) 40 ml vial 1402 Jm
 (1) 10 ml vial

* Due to low soil recovery in split spoons and three spots taken spilled samples sample volume recovered for shipment is below CLP requirement. Dynamac will contact CHL ASAP to report field difficulties associated w/ sample volume.

0850 - Set up still rig on RTB-5.
 Dynamac will be spilling sample at this location

- 0.5-2.5 1' recovery / Dynamac
 boom with 70% ground

CC A 9/25/62

ORIGINAL (RED)

Westinghouse Electric 9/29/52
4.2" recovery / silt & clay mud w/
gravel & rock recovery 2 1/2"
- 1" recovery / moist / silt & clay
mud / 8 1/2" gravel & rock
1.5" recovery / silt & clay w/ gravel
mud 5 1/2" gravel
1" recovery / silt & clay w/ little
gravel.

Head Grace Corraliza RTB-5		
1" x 1 1/2"	Sample	Recovery
0.5 - 2.5	5-1	50.5
2.5 - 4.5	5-2	50.2
4.5 - 6.5	5-3	51.0
6.5 - 8.5	5-4	50.2
8.5 - 9.9	5-5	50.7

RTB-5 RTB-4 It was agreed on between
FRT RT RTW & L. Wynne
to ship samples 2 & 5-4 for
RT & RTW and Wynne
to report on 5-4

- RTB-5 It was agreed in ship
5-5 by all parties.

ORIGINAL
(RED)
0945 - Frank Turner departed site.
Wynne contacted CRT to
get information on
low and difficulties for
sample 5-5

3A - Wright House, Chetue (7/29/52)

- CRL informed dynamometer
to submit the shot. They have
and wrote it on the chain of
custody.

1025 - Dynamometer packed samples
for shipment while Contractor
begon drilling RTB-6.

Sample ID RTB-5

Dynamometer P/L R.E. Wright

WH-84-02-01 RTB-4-5 RTB-4-5

WH-84-02-02

1100 - Good space from RTB-6

Depth	Sample	Reading
0-2	5-1	0.5
2-4	5-2	2
4-6	5-3	1
6-8	5-4	40
8-10	5-5	400

5A

1115 - Virgin Borehole RTB-7

ORIGINAL
(RED)

Sample to be shipped (P/L MS/MSD)

5A

AR300375

SJA	Watkinson & Electric	Date	Sample	Barolin RTB-7	33	9/29/52
* R1 P10		1.5-3.5	5-1	2		
		3.5-5.5	5-2	3		
* R1 P11		6.5-7.5	5-3	2		
		7.5-9.5	5-4	400		
1200		Drillers took for lunch.				
1300		Photo of Ocean Road used to pressure steam clean urethane and split spoons during boring operation of 3rd bore holes. Looking South				
R1 P1						
R1 P2		Photo of the TCA solvent tank to the left and the abandoned tank to the right, looking East				
1310						
R1 P3		Photo of drill rig setting up on RTB-8. Looking South West				
1320						
1330		Photo of drillers driving first split spoon for sample at RTB-8. Cell spore ore stored cleaned and dried prior to sampling looked at (ORIGINAL FILED)				
R1 P4						
1335		Photo of first split spoon sample at 1.5-3.5'				
R1 P5						
		Sampling of 1st sample				

530

Watkinshouse Electric

ind. space

1331

Photo of PCR taking UVA sample
from first split space. Head
space is ~~undisturbed~~ conducted
by filling in for half way
up sample, setting the gas
in its run for a few minutes
and then take a H₂O reading
of its temperature in the gas.
Looking N.E.

R1 P6

1332

Photo of RE almost sampling
WPS up to the shore. Looking
N.E.

R1 P7

R1 P8

Photo of PCR decompressing
thru travel in between samples
first with a DT west of grass
contaminant, then a westward
wash, dry, DT inside. Looking
N.E.

1345

photo of PCR conducting

R1 P9

recompress analysis in sample
collected from 3.5-5.5'. Looking SE

1350

Photo of split space sample

R1 P10

from 5.5-1.5', looking N.E.
(RED)

SCA 9/30/69

AR300377

SSA

Photograph Station 9/29/51
1405 - Photo of PCR taking readings
over bore hole while drillers
are pulling up augers.
Readings @ 10-15 ppm over
bore hole / breathing zone @
0.0 ppm.

Head space readings from RTB-5

Depth	Sample	Readings
1.5-3.5	5-1	5
3.5-5.5	5-2	10
5.5-7.5	5-3	20
7.5-9.3	5-4	25.0

1411

Bore hole drilling has been
completed. Drillers will
remain on site to drum all
drill cuttings down all equipment
and drum all debris waste
water. All drums will
remain on site in shedders
yard area. Waste storage building
located on the south side of
the site.

ORIGINAL
(RED)

SS

Samples PCR & RTB-5 All ships

55A

Washington State 5/25/52
 - PCR & RT right informed
 Parameters of QC sample location
 as follows:

PCR	RTB-6-5-5	DIL
RT Weight	10 to 1000	* RTB-7-5-4

* Dup samples were shipped
 under label ID as follows:

PCR	RTB-7-5-4D
RT Weight	RTB-7-0

- Parameters shipped all samples
 on the following COC:

COC #: 0-033625

Air Bill #: 5720435862

Tag # : 3-12623879

3-12623879

3-1262376

3-1262378

3-1262380

3-1262382

ORIG
 REC'D

- Completed packing samples for
 shipment and departed site
 for Fed. Ex. Reading, PA.

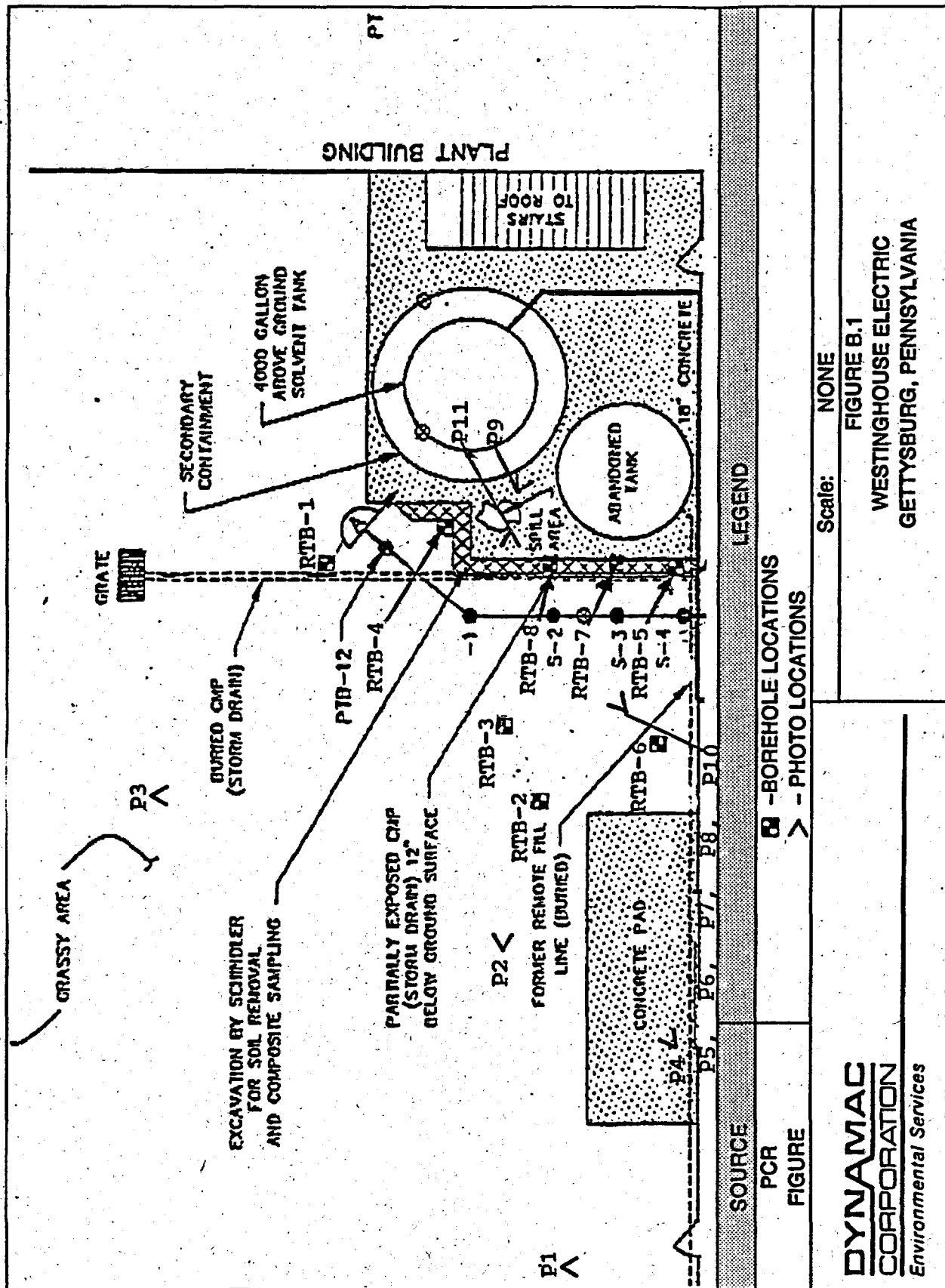
ACD/HM/Man. - 5/26/52

AR300379

ORIGINAL
(RED)

APPENDIX B
PHOTOLOG OF FIELD SAMPLING ACTIVITIES

AR300380

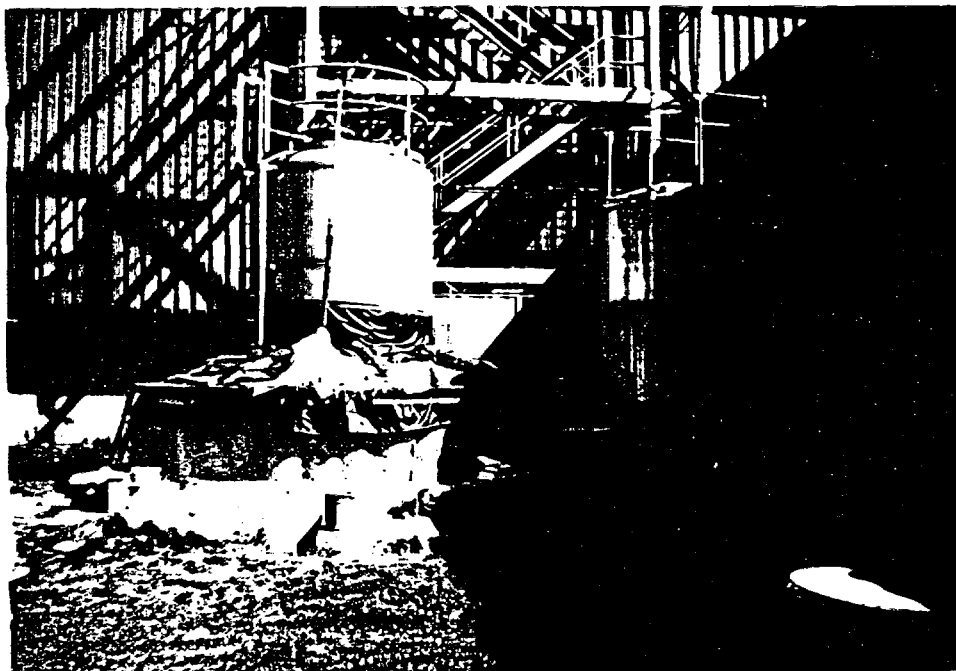


Scale: NONE

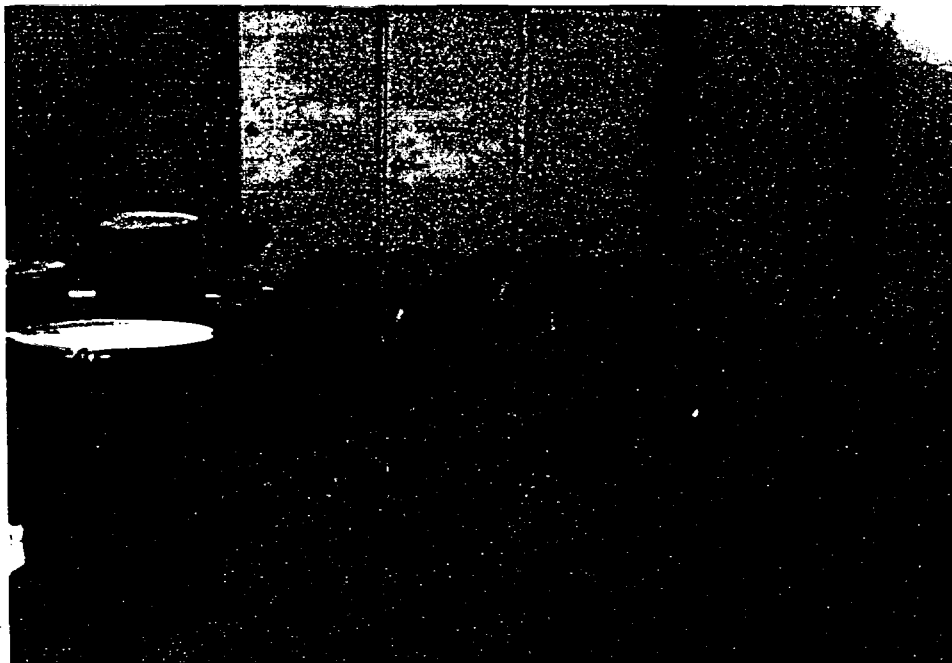
FIGURE B.1
WESTINGHOUSE ELECTRIC
GETTYSBURG, PENNSYLVANIA

DYNAMAC
CORPORATION
Environmental Services

ORIGINAL
(SEE 1)

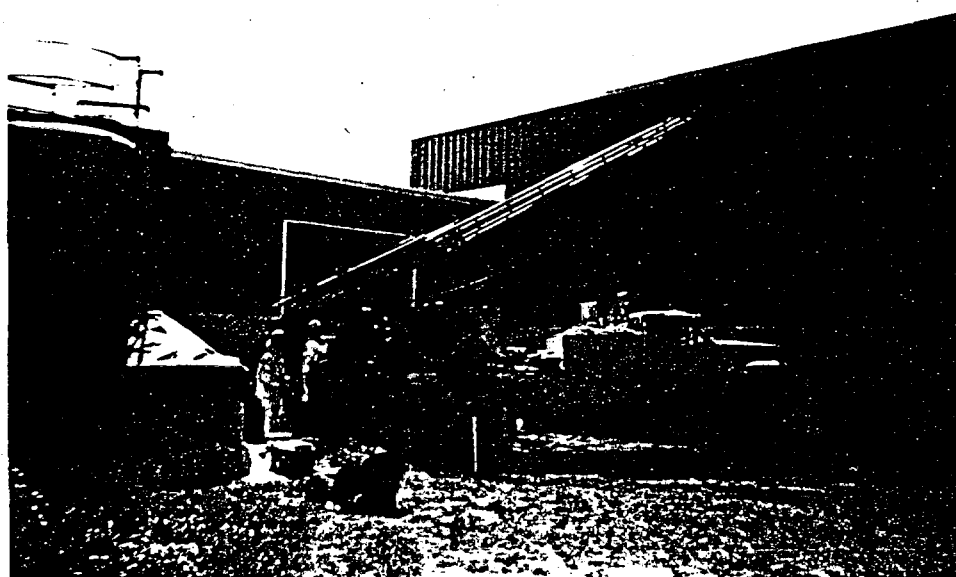


PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1300 HOURS
P01	PHOTO OF TCA SOLVENT TANK TO THE LEFT AND THE WESTINGHOUSE
REF. FIG. B-1	ABANDONED TANK TO THE RIGHT. LOOKING EAST

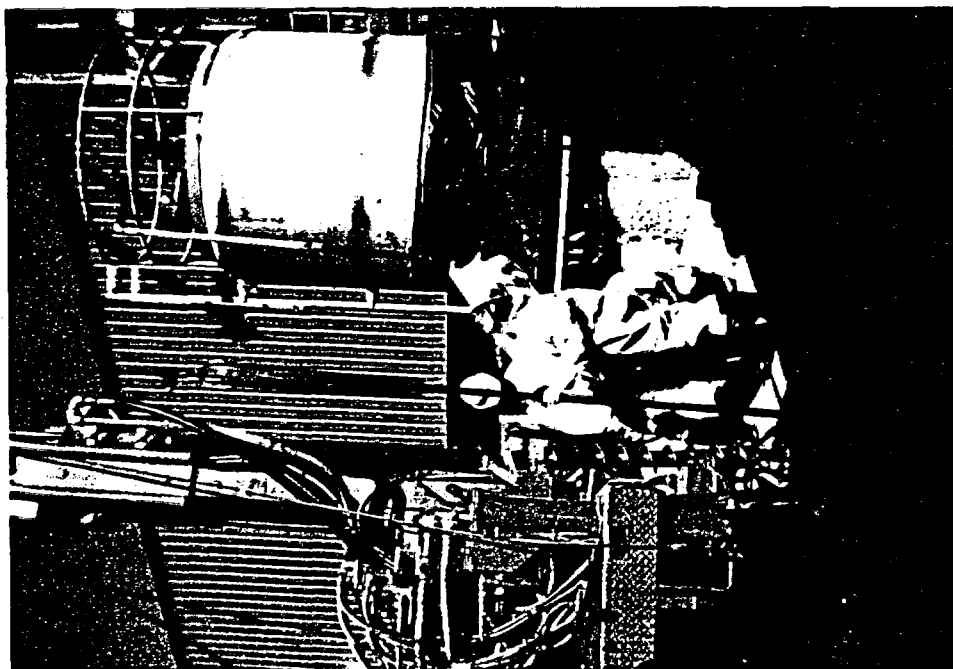


PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1310 HOURS
P02	PHOTO OF DECON PAD USED TO STEAM CLEAN AUGERS AND SPLIT
REF. FIG. B-1	SPOONS DURING BOREHOLE OPERATIONS. LOOKING SOUTH

AR300382



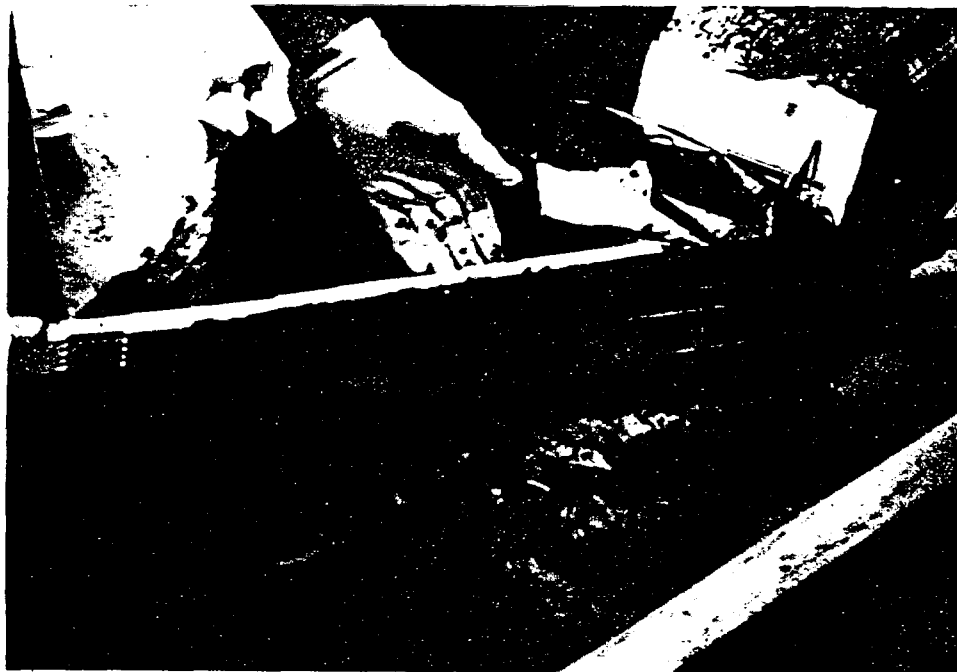
PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1320 HOURS
P03	PHOTO OF DRILL RIG SETTING UP ON RTB-8. LOOKING WEST
REF. FIG. B-1	



PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1330 HOURS
P04	PHOTO OF DRILLERS DRIVING FIRST SPOON FOR SAMPLE AT RTB-8.
REF. FIG. B-1	LOOKING NORTHEAST.

AR300383

ORIGINAL
(RED)



PHOTOGRAPHER:
S. AHARONIAN

DATE: 9/29/92

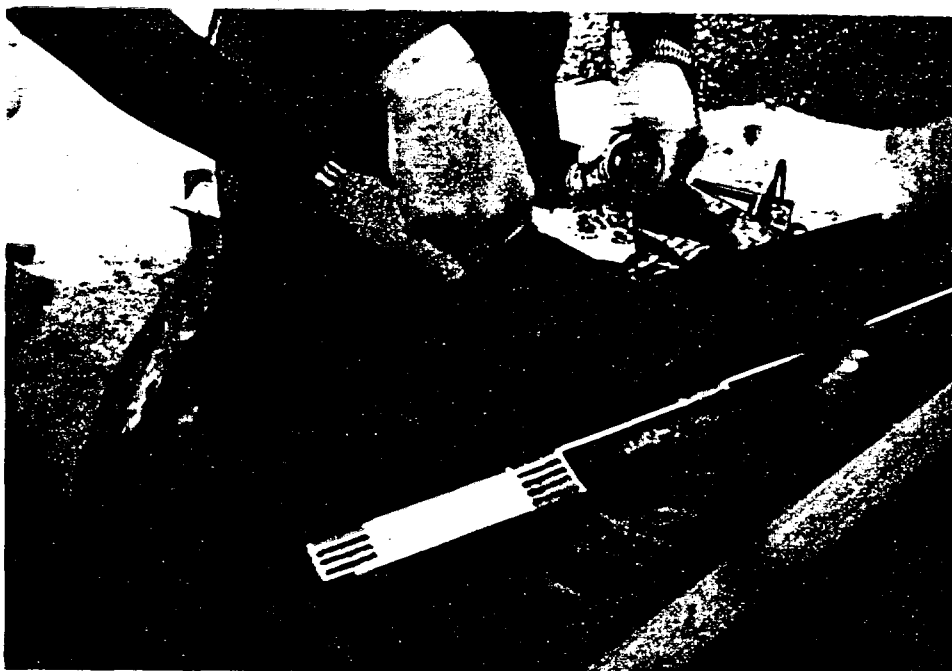
TIME: 1331 HOURS

P05

PHOTO OF SPLIT SPOON SAMPLE RTB-8 AT 1.5'-3.5'.

REF. FIG. B-1

LOOKING NORTHEAST.



PHOTOGRAPHER:
S. AHARONIAN

DATE: 9/29/92

TIME: 1331 HOURS

P06

PHOTO OF PCR COLLECTING VOA AND HEADSPACE SAMPLE

REF. FIG. B-1

FROM RTB-8 AT 1.5'-3.5'. LOOKING NORTHEAST.

AR300384

ORIGINAL
(RED)



PHOTOGRAPHER:
S. AHARONIAN

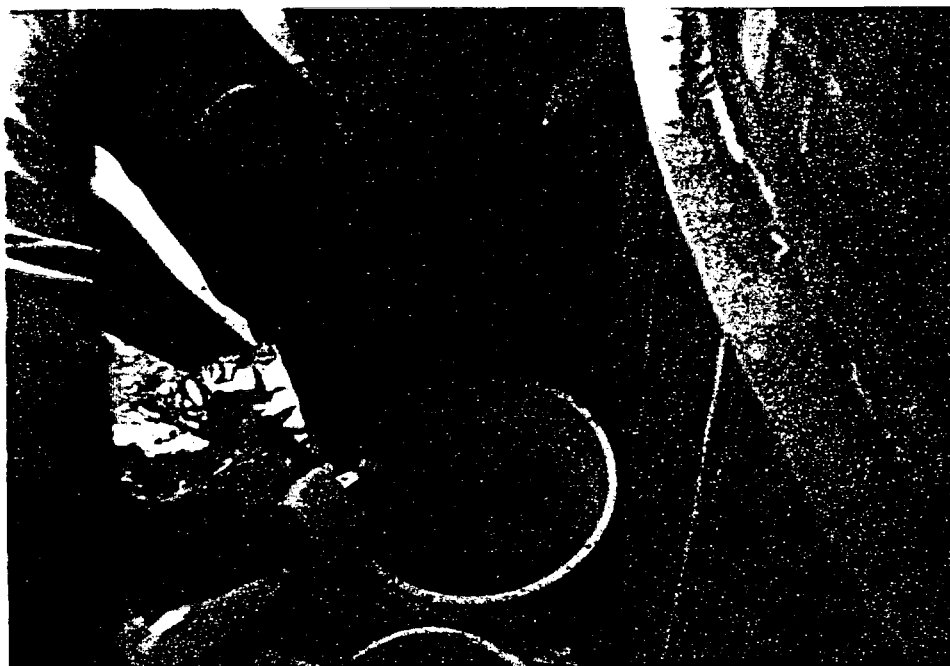
DATE: 9/29/92

TIME: 1332 HOURS

P07

PHOTO OF R.E. WRIGHT COLLECTING VOA SAMPLE
FROM RTB-8 AT 1.5'-3.5'. LOOKING NORTHEAST.

REF. FIG. B-1



PHOTOGRAPHER:
S. AHARONIAN

DATE: 9/29/92

TIME: 1335 HOURS

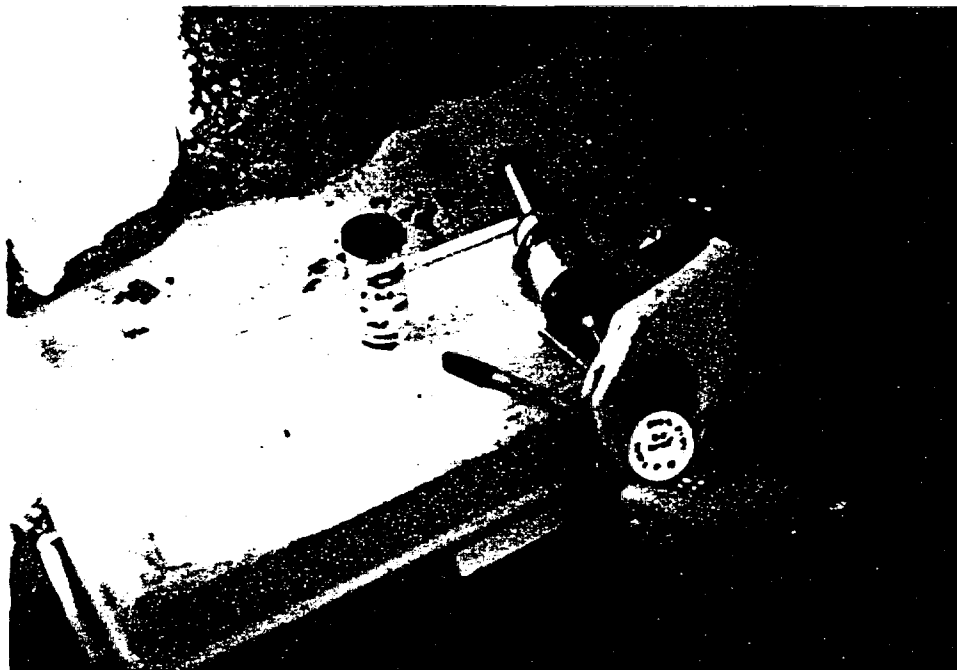
P08

PHOTO OF PCR DECONING THEIR TROWEL IN BETWEEN SAMPLES.
LOOKING NORTHEAST.

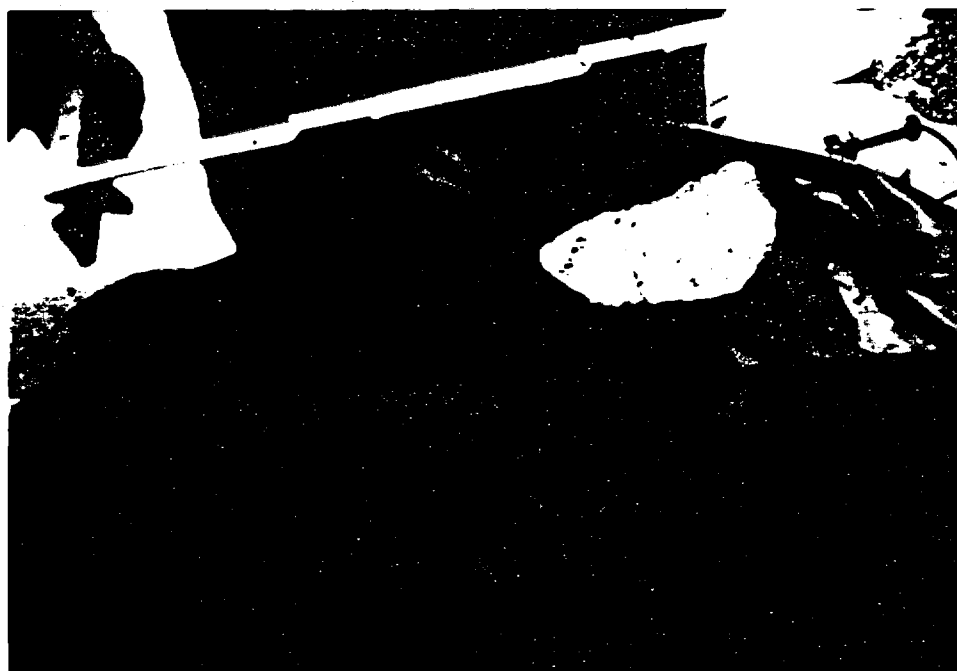
REF. FIG. B-1

AR300385

ORIGINAL
(RED)



PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1345 HOURS
P09	PHOTO OF PCR CONDUCTING HEADSPACE ANALYSIS ON RTB-8 AT 3.5'-
REF. FIG. B-1	5.5'. LOOKING SOUTHEAST.



PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1350 HOURS
P10	PHOTO OF SPLIT SPOON SAMPLE RTB-8 AT 5.5'-7.5'.
REF. FIG. B-1	LOOKING NORTHEAST.

AR300386

ORIGINAL
(RED)



PHOTOGRAPHER:	DATE: 9/29/92
S. AHARONIAN	TIME: 1405 HOURS
P11	PHOTO OF OF PCR TAKING HNU READING OFF OF DRILL CUTTINGS RTB-8
REF. FIG. B-1	WHILE DRILLERS ARE PULLING UP AUGERS . LOOKING WEST.

AR300387

ORIGINAL
(RED)

APPENDIX C

TRAFFIC REPORTS/CHAIN OF CUSTODY

FEDERAL EXPRESS AIRBILL/SAMPLE SHIPPING LOG

AR300388

PAGE 1 OF 1

(REQUIRED FOR ALL SAMPLES SENT THROUGH THE CONTRACT LAB PROGRAM)

PROJECT SITE NAME: WESTINGHOUSE ; EPA PROJ. OFFICER: Frank Vavra
 RAS NO. 18832 ; SAS NO. _____ ; TASK OR SET NO. _____
 PROJECT SITE LEADER: Scott Anderson ; PHONE NO. (215) 789-9800
 PROJECT SAMPLE COORDINATOR: Scott Anderson ; PHONE NO. (215) 989-9800

SAS REQUEST (DETAILS REQUIRED)
(10)

ORGANICS OR INORGANICS													
QC SAMPLE INFORMATION AND/OR COMMENTS	CONC. (LOW/MED./HIGH)	SAMPLE PHASE (AQ/SOL.)	TYPE OF REQUEST (ORG/INORG/SAS)	EPA SAMPLE NO.	LAB NAME	DATE SHIPPED	DATA RECEIVED (XX-OUT ITEMS NOT REQUESTED)						
							VOA	BAVA	PEST	ICOD	METALS	CN	
(13)	(15)	(14)	(16)	(6)	(7)	(10)	(9)	(8)	(11)	(12)	(13)	(14)	(15)
Rinsate	Low	AQ	ORG	CDS-79	TEA	9/29/77		X	X	X	X		
Trip Blank	↓	↓	↓	CDS-80	↓	↓		X	X				
Do QC	Low	SOL	ORG	CDS-76	TEA	7/25/82		X	X	X	X		
Dup of CDS-77	↓	↓	↓	CDS-77	↓	↓		X	X	X	X		
	↓	↓	↓	CDS-78	↓	↓		X	X	X	X		

FINAL SAMPLING: YES ☒ NO ☐ ; FINAL SHIPPING DATE: 9/29/97

06/20
MOLISIA



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic CLP Analysis

Transportation Report

Custody Record

SAS No. (if applicable) *N/A*

Case No. *1883*

1. Project Code <i>C03018</i>	2. Region No. <i>III</i>	3. Sampling Co. <i>Dynamac</i>	4. Date Shipped (Carrier) <i>9/29/92</i>	5. Date Shipped (Carrier) <i>9/29/92</i>	6. Preservative (Enter in Column D) <i>1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Other 6. Ice only N. Not preserved</i>	7. Sample Description (Enter in Column A) <i>1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify)</i>
----------------------------------	-----------------------------	-----------------------------------	---	---	---	---

Regional Information <i>N/A</i>	Sample (Name) <i>Scott Marom</i>	Airbill Number <i>5720435862</i>	5. Ship To <i>Industrial Envir. Analysis Inc 3000 Webster Park Way Cary, NC 27513 ATTN: SCOTT GREG KRASEC</i>								
Non-Superfund Program <i>APPL RARA</i>	Sample (Name) <i>Scott Marom</i>	Sample (Name) <i>Scott Marom</i>	Sample (Name) <i>Scott Marom</i>								
Site Name <i>Websters house Elc</i>	City, State <i>Gallatin PA</i>	Site Spill ID <i>N/A</i>									
CLP Sample Numbers (from labels)	A Enter # from Box 7	B Conc. Low Med High	C Sample Type: Grab	D Preservative from Box 6	E RAS Analysis VOA BNA PCB TOX High only ARO/PCB TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Enter Appropriate Qualifier for Designated Field QC B = Blank S = Spike D = Duplicate PE = Perform Eval. -- = Not a QC Sample
<i>CD-79</i>	<i>3</i>	<i>Low</i>	<i>Grab</i>	<i>1</i>		<i>3-126 2384 Arrow 3-126 2384 Arrow</i>	<i>WH-RB-01-01</i>	<i>9/28/92/1440</i>	<i>SA</i>	<i>N/A</i>	<i>B</i>
<i>CD-80</i>	<i>3</i>	<i>Low</i>	<i>Grab</i>	<i>1</i>		<i>3-126 2384 Arrow</i>	<i>WH-TB-01-01</i>	<i>9/25/92/1300</i>	<i>SA</i>	<i>N/A</i>	<i>B</i>
<i>CD-76</i>	<i>5</i>	<i>Low</i>	<i>Grab</i>	<i>6</i>		<i>3-126 2384 Arrow</i>	<i>WH-SB-01-01</i>	<i>9/29/92/0500</i>	<i>SA</i>	<i>N/A</i>	
<i>CD-76</i>	<i>5</i>	<i>Low</i>	<i>Grab</i>	<i>6</i>		<i>3-126 2384 Arrow</i>	<i>WH-SB-01-01</i>	<i>9/29/92/0900</i>	<i>SA</i>	<i>N/A</i>	
<i>CD-77</i>	<i>5</i>	<i>Low</i>	<i>Grab</i>	<i>6</i>		<i>3-126 2384 Arrow</i>	<i>WH-SB-02-01</i>	<i>9/29/92/0950</i>	<i>SA</i>	<i>N/A</i>	
<i>CD-78</i>	<i>5</i>	<i>Low</i>	<i>Grab</i>	<i>6</i>		<i>3-126 2384 Arrow</i>	<i>WH-SB-02-02</i>	<i>9/29/92/0850</i>	<i>SA</i>	<i>N/A</i>	<i>D</i>

Shipment for Case complete? (Y/N) <i>Y</i>	Page 1 of <i>1</i>	Sample used for a spike and/or duplicate <i>QC Sample on CDS-76</i>	Additional Sampler Signatures <i>N/A</i>	Chain of Custody Seal Number <i>N/A</i>
Relinquished by: (Signature) <i>Scott Marom</i>	Date / Time <i>9/29/92/1500</i>	Received by: (Signature) <i>Red Eye</i>	Relinquished by: (Signature) <i>Red Eye</i>	Date / Time <i>9/29/92/1500</i>
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Remarks <i>is custody seal intact? Y/N/none</i>	Date / Time

EPA Form 910-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

AR300390

FIELD FORM

Analysis and Phase Laboratory Chain-Of-Custody Airbill Number

Case Number:

Site Name: Westinghouse

TDD Number:

Date: 9/25/92

Sample Identifier	Phase	Time	Sampler	Organic Traffic Report	Organic Tag Number	Inorganic Traffic Report	Inorganic Tag Number	pH	Conductivity
WH-SB-01-01	Solid	9/25/92 0800	SA	CDS-76	3-1262376, 3-1262377	N/A	N/A		
WH-SB-01-01 (MS/MSD)		9/25/92 0800		CDS-78	3-1262378, 3-1262379				
WH-SB-01-01 MS/MSD		9/25/92 0800		CDS-78	3-1262380, 3-1262381				
WH-SB-02-02 DUP		9/25/92 0800		CDS-78	3-1262382, 3-1262383				
WH-RB-01-01	Aqueous	9/25/92 1440		CDS-79	3-1262384 THROUGH 3-1262386				
WH-TB-01-01		9/25/92 1300		CDS-80	3-1262387 THROUGH 3-1262389				
WH-TB-02-01		9/25/92 1300		CDS-81	3-1262390 THROUGH 3-1262392				
WH-TB-03-01		9/25/92 1300							
AR300392									

ORIGINAL
(RED)Project Leader Signature: [Signature]Date: 9/25/92

Verified by: _____

Date: _____

Supplement to Log Book No.: _____

Log Sheet _____ of _____