

1194
ORIGINAL
(Red)

FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

FIT PROJECT

**TASK REPORT TO THE
ENVIRONMENTAL PROTECTION AGENCY
CONTRACT NO. 68-01-6056**

FINAL REPORT ON

Ruetgers-Nease Chemical Company, Inc.
State College, Pennsylvania

TDD No. F3-8011-09
EPA No. PA - 201

Prepared By: Garth Glenn
Submitted To: Bruce P. Smith

ecology and environment, inc.

International Specialists in the Environmental Sciences

AR100046

801109-24

A Site Resampling of
Ruetgers-Nease Chemical Company, Inc.
State College, Pennsylvania
TDD No. F3-8011-09
EPA No. PA - 201

Table of Contents

Section 1	Field Trip Report
Section 2	Sampling Report and Sample Log
Section 3	Photographic Log
Section 4	Maps
Section 5	Interim Report - December 10, 1980

AR100047

ORIGINAL
(Red)

SECTION 1

AR100048

FIELD TRIP REPORT

ORIGINAL
(Red)

Ruetgers-Nease Chemical Company, Inc.
State College, Pennsylvania
TDD No. F3-8011-09
EPA No. PA - 201

INTRODUCTION

On January 19 and 20, 1981, after several reschedulings due to site access complications, the Field Investigation Team, Region III (FIT III) staff conducted on-site sampling at the Ruetgers-Nease Chemical Company, Inc. in State College, Pennsylvania. Ruetgers-Nease personnel and their representatives were provided with two (2) sets of split duplicate samples. The Pennsylvania Department of Environmental Resources (PA DER) also received split samples, but were not present during much of the sampling.

As stated above; site access for the purpose of sampling was postponed for a month and a half by company officials. Due to these postponements, off-site sampling was conducted by FIT III personnel on December 10, 1980. An interim report on this sampling was submitted to the Environmental Protection Agency, Region III (EPA III). A copy of that report is contained in Section 5 of this report.

CONTACTS

The following people were present during the two (2) day site inspection visit:

Harold Klotz	Vice President - Engineering Ruetgers-Nease Chemical Company, Inc.
David Johnson	Ruetgers-Nease Chemical Company, Inc.
I.R. (Poncho) DeLeon	Center for Bio-Organic Studies University of New Orleans
Dan Alters	Operations Chief Pennsylvania Department of Environmental Resources
Jerry McKernan	Field Inspector Pennsylvania Department of Environmental Resources

AR100049

Field Trip Report
Ruetgers-Nease Chemical Co.
TDD No. F3-8011-09
EPA No. PA - 201
Page Two

ORIGINAL
(Red)

PERTINENT COMMENTS

Harold Klotz

Upset that the Environmental Protection Agency (EPA) had FIT III sample off-site last month without his knowing. Stated that it was an underhanded thing to do. (Note: FIT III staff directed Mr. Klotz to the exact location of off-site sampling performed on December 10, 1980. Mr. Klotz and Mr. DeLeon sampled from this location.)

I.R. (Poncho) DeLeon

Stated that he would be using his own glassware for sampling and that he wanted two (2) sets of samples. One set to be analyzed by C.B.S. and the other to go to another lab, possibly Penn State.

Agreed that since he was using his own glassware, that FIT III and C.B.S. should exchange blanks.

Dan Alters

No DER personnel would be present during sampling, but asked that FIT III provide him with samples in FIT III glassware.

Harold Klotz and I.R. (Poncho) DeLeon

Stated that they were satisfied with FIT III procedures for sampling and decontamination of equipment to prevent cross contamination.

Harold Klotz

Stated that the fill over the Upper Chemfix lagoon came from excavation for a sewer line in town.

AR100050

Field Trip Report
Ruetgers-Nease Chemical Co.
TDD No. F3-8011-09
EPA No. PA - 201
Page Three

ORIGINAL
(Red)

PERTINENT COMMENTS (Continued)

Harold Klotz

Note: On two occasions, the drillers hired by FIT III punctured a two-ply vapor barrier at the bottom of the chemfix lagoon. Mr. Klotz stated that he was suprised that the barrier still existed and that he had pulled it apart in his last excavation, which took place for sampling purposes.

OBSERVATIONS

- It was noted, on Monday, January 19, 1981, when the FIT III staff went to bail Well #16, that tire tracks in the snow led to Well #16 and that an empty unmarked 5 gallon drum was sitting next to the well. Mr. Klotz stated that he didn't know what the drum was or where it had come from.
- Upon bailing Well #16, it was found that the well was 15-16 feet deep and water level was encountered at approximately 12 feet. The evacuated water was turbid and gray and had a slight chemical odor although no positive reading was recorded on an Organic Vapor Analyzer (OVA).
- Water volume in Well #16 on Tuesday, January 20, 1981 was insufficient to collect a full range of samples. (See Sampling Report for samples collected.)
- The water from Well #16 had a septic odor and a hydrocarbon-like sheen.

AR100051

ORIGINAL
(Red)

OBSERVATIONS (Continued)

- The layer of chemfix in the Upper Chemfix lagoon varied in cross-sectional depth. The following depths were measured at the sampling locations by driving split spoons:
 - Station 3 (Grid R-R prime) - Top 5'/Bottom 7'
 - Station 4 (Grid Y-Y prime) - Top 5'/Bottom 9.5'
 - Station 5 (Grid B-B prime) - Top 5'/Bottom 11.7'
- Stations 3, 4 and 5, in Upper Chemfix, were located as close as possible to the above grid locations without sampling previously disturbed areas.
- The soil under the chemfix was extracted by split spoon and examined. This soil appeared to virgin Red-Brown silty clay.
- The only positive reading on the OVA was recorded at Station #3, at 10 ppm. This reading was recorded only after the chemfix had been distrubed.
- Odors from the chemfix were similar as those noted on Garth Glenn's two (2) visits to Thornton Spring (November 25, 1980 and December 10, 1980).
- The exposed cross-section of the chemfix showed a variation of grays from light gray at the upper level, to a dark gray at the lower levels.
- No groundwater was encountered in the chemfix. Note: Groundwater in Well #16 located in Upper Chemfix lagoon was measured at 12 feet.

AR100052

ORIGINAL
(Red)

Field Trip Report
Ruetgers-Nease Chemical Co.
TDD No. F3-8011-09
EPA No. PA - 201
Page Five

OBSERVATIONS (Continued)

- pH of the groundwater was measured at 6.85 - 6.98 s.u.
- Overburden in Upper Chemfix lagoon contained extremely high concentrations of rocks ranging from cobble size to boulders.
- Sites #01 and #02, in the abandoned spray field, were found to be well vegetated with grasses and sedges. Samples were taken from the "A" horizon and appeared to be brown loam.
- Site #07, clean water ditch, was covered with 10" of ice. After breaking away the ice, 3" of flowing water was encountered. The sediments sampled were light brown and contained some gravel.
- Site #08, drum storage area, was unvegetated mixed soils containing clay, sand, gravel and loam.
- The water removed from Well #0, Site #10, had a strong septic and glue-like odor, and was very cloudy with a hydrocarbon-like sheen.
- Weather conditions - overcast with a light breeze. Temperatures were in the Low to Mid 30's. The ground was covered with a light snow.

AR100053

ORIGINAL
(Red)

SECTION 2

AR100054

SAMPLING REPORT

Ruetgers-Nease Chemical Company, Inc.
State College, Pennsylvania
TDD No. F3-8011-09
EPA No. PA - 201

ORIGINAL
(Red)

PROCEDURES

Before each use, all sampling equipment was decontaminated with a distilled water wash followed by an acetone wash, followed by two (2) distilled water rinses. The ropes used with the well samplers were new and were replaced for each well. During bailing and sampling, the rope was coiled into a decontaminated stainless steel bucket to prevent picking up contamination from the area.

In order to obtain equitable split samples, all soil and chemfix samples were deposited in a decontaminated stainless steel bucket and homogenized with a new decontaminate stainless steel spatula prior to filling the sample jars.

Sampling points were at locations determined by Walt Lee (EPA III). During sampling, both magnetic readings and approximate distances to permanent landmarks (well heads, power poles, etc.) were recorded in FIT III Log Books. Approximate sample locations can be found on a site sketch at the back of this report.

AR100055

SAMPLE LOG

Sample Number	Station Description	Date	Time	Sample Type	Split With C.B.S.	Add Split With C.B.S.	Split With DER	T.R. No.	Laboratory	Analysis
01	Spray Field Grid D-W Surface Soil	01/20/81	0925	Soil	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
02	Spray Field Grid D 1/2 - x 1/4 Surface Soil	01/20/81	1045	Soil	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
03A*	Pit #1 Upper Chemfix Grid R-R prime 5'	01/20/81	1420	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
04A	Pit #2 Upper Chemfix Grid Y-Y prime 5 - 7 1/2'	01/20/21	1445	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
04B	Pit #2 Upper Chemfix Grid Y-Y prime 9 1/2'	01/20/81	1530	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
05A	Pit #3 Upper Chemfix Grid B-B prime 5'	01/20/81	1602	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
05B	Pit #3 Upper Chemfix Grid B-B prime 9'	01/20/81	1623	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
06	Well #16 in Upper Chemfix	01/20/81	0845	Groundwater	Yes	Yes	+	N/A	NEIC	Kepon & Mirex
07	Clean Water Ditch Surface Sediment	01/20/81	1147	Soil	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex
08	Drum Storage Area Surface Soil	01/20/81	1255	Soil	Yes	Yes	Yes	N/A	NEIC	Kepon & Mirex

* ONLY ONE SAMPLE WAS OBTAINED AT THIS LOCATION DUE TO THE FACT THAT THE CHEMFIX LAYER WAS SO NARROW. NO DEEP CHEMFIX COULD BE LOCATED.

+ THE WATER VOLUME IN WELL #16 WAS INSUFFICIENT TO COLLECT SAMPLES FOR DER OR FOR CONTRACT LAB ANALYSIS. AT 1545 DER SAMPLED THE "MIX" FROM THE BOTTOM OF THE WELL WHICH BOTH FIT III AND C.B.S. FELT WAS NOT A REPRESENTATIVE SAMPLE. (CONTRACT LABS COULD NOT ANALYZE SUCH A SAMPLE.)

07 AR100056

ORIGINAL

SAMPLE LOG

Sample Number	Station Description	Date	Time	Sample Type	Split With C.B.S.	Add Split With C.B.S.	DER	T.R. No.	Laboratory	Analysis
10	Well #0	01/20/81	1500	Groundwater	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
10	Well #0	01/20/81	1500	Groundwater	No	No	Yes	MC-8116	Anatec	Inorganics
10	Well #0	01/20/80	1500	Groundwater	No	No	Yes	C-0341	Energy Res. Co.	Extractable Organics and Volatile Organics
	Blank	01/20/81	—	Blank	No	No	Yes	C-0388	Energy Res. Co.	Extractable and Volatile Organics
	Blank**	01/20/81	—	Blank	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
	Blank	01/20/81	—	Blank	No	No	Yes	MC-8116	Anatec	Inorganics
	Blank** Center for Bio-Organic Studies Glassware	01/20/81	—	Blank	Yes	Yes	No	N/A	NEIC	Kepone & Mirex

** BLANKS WERE EXCHANGED WITH C.B.S. BECAUSE THEY OPTED TO USE THEIR OWN GLASSWARE FOR ALL SAMPLE COLLECTION. FIT III GAVE C.B.S. TWO BOTTLES WITH DISTILLED FOR GLASSWARE-CHECK ANALYSIS AND FIT III RECEIVED ONE BOTTLE FROM C.B.S. WHICH FIT III RINSED WITH DISTILLED AND THEN FILLED WITH DISTILLED. IN ADDITION, FIT III SUBMITTED BLANKS IN OUR OWN GLASSWARE TO NEIC.

AR100057



MC 8116

INORGANICS TRAFFIC REPORT① Case Number: 335-377

Sample Site Name/Code:

RITIGERS NEASEPHENIX CO.

② Sample Type: (Check One)

Run Off
☒ Well Water
Receiving Water
Leachate
Effluent

☒ Other BLANK
(specify)

③ Ship To: ANNEX LABS INC
635 TOSCANI CIRCLE
ENERGY RESEARCH CO.
185 ALEUTIC DRIVE TAYLOR
CAMBRIDGE MA
02138 SANTA ROSA, CA.
Attn: GREG ANDERSON

④ Regional Office: Phila - 3

Sampling Personnel:

(Name) ALTON STONE(Phone) 209-665-1515

Sampling Date:

(Begin) 1/20/81 (End) 1/20/81

⑤ Shipping Information:

Name Of Shipper:

FEDERAL EXPRESSDate Shipped: 1/21/81Airbill Number: 0179814633

⑥ Description of Sample Location

STATION # 10
WELL # 0MATCHES ORGANIC # 10341BLANKMATCHES ORGANICS SAMPLE NO 308

⑦ Mark Volume Level On Sample Bottle

Date Sampled

1/20/81

Task 1 & 2

Task 3 Ammonia & TOC

Fluoride & pH

Sulfide

Cyanide

REGIONAL OFFICE FILE COPY

ART00060



C 0341

ORGANICS TRAFFIC REPORT

① Case Number:

~~335~~ 377

Sample Site Name/Code:

RUTGERS-NEASE

CHEMICAL CO.

03801109

② Sample Type: (Check One)

☐ Run Off

☒ Well

☐ Receiving Water

☐ Leachate

☐ Effluent

☐ Other (specify) _____

③ Ship To:

ENERGY RESOURCES CO.
185 ALENITE BROOK PARKWAY
CAMBRIDGE, MA.
02138

Attn:

DALLAS WAITE

ORIGINAL
(Red)

④ Regional Office:

Sampling Personnel:

ALTON DAY STONE
(Name)

609-665-1575
(Phone)

Sampling Date:

1/20/81 1/20/81
(Begin) (End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

1/20/81

Extractable

1/20/81

Extractable

1/20/81

Extractable

1/20/81

VOA Unpreserved

1/20/81

VOA Unpreserved
(Duplicate)

1/20/81

⑥ Shipping Information

FEDERAL EXPRESS

Name of Shipper:

1/21/81

Date Shipped:

0179814622

Airbill Number:

⑦ Description of Sample Location:

STATION #10
WELL #0

NATURE'S Inorganic # MC-8116

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)



ORGANICS TRAFFIC REPORT

① Case Number:
377

Sample Site Name/Code:
RUTGERS - NEASE
CHEMICAL Co
73-8011-09

② Sample Type: (Check One)

- ☐ Run Off
☐ Well
☐ Receiving Water
☐ Leachate
☐ Effluent
☒ Other (specify) sample Blank

③ Ship To:

Energy Resources Co.
185 Alewife Brook
Parkway
Cambridge, Mass. (Red)
02138
Attn: Dallas Waite

④ Regional Office:

Sampling Personnel:

ALTON DAY STONE
(Name)

609-665-1515
(Phone)

Sampling Date:

1/20/81 (Begin) 1/20/81 (End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

1/20/81

Extractable

1/20/81

Extractable

1/20/81

Extractable

1/20/81

VOA Unpreserved

1/20/81

VOA Unpreserved
(Duplicate)

1/20/81

⑥ Shipping Information

Ecology and Environment Inc.

Name of Shipper:

1/21/81

Date Shipped:

0179814622

Airbill Number:

⑦ Description of Sample Location:

SAMPLE BLANK

MATCHES Inorganic # MC 8116

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

REGION 3
Curtis Bldg, 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

AR 100061

REGION 3
Curtis Bldg, 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

ARL00062

Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

AR 100063

REGION 3

Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 1910

Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

~~AR 100064~~

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJECT NO. 1	PROJECT NAME	NO.	RECEIPT	
SAMPLERS: (Signature) SITE LEADER	RUTGERS NEASE GARY GLENN	OF	REMARKS	
STATION NO.	DATE	TIME	COMP.	GRAB

STATION NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	CON-TAINERS TAKEN	REMARKS
01	01/24/81	0925	X		spray field grid 07Y surface 0017	1	2
02	01/24/81	1045	X		spray field grid 07Z-744 surface 0014	1	2
03A	01/24/81	1420	X		PIT #1 UPPER CHEM F-1	1	2
04A	01/24/81	1445	X		PIT #2 UPPER CHEM F-1	1	2
04B	01/24/81	1530	X		PIT #2 UPPER CHEM F-1	1	2
05A	01/24/81	1602	X		PIT #3 UPPER CHEM F-1	1	2
05B	01/24/81	1623	X		PIT #3 UPPER CHEM F-1	1	2
06	01/24/81	0845	X		Well #16	3	2
07	01/24/81	1147	X		clean water ditch surface sediment	1	2
08	01/24/81	1255	X		DRUM Storage area surface soil	1	2
10	01/24/81	1500	X		WELL #0	7	2
BLANK					WATER	1	2

IN ADDITION SAMPLE were given to PA DER see date 3-01/5

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
<i>[Signature]</i>	01/24/81 1710	<i>[Signature]</i>			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

ARI00065

ORIGINAL
(Red)

SECTION 3

AR100066

PHOTOGRAPHIC LOG

ORIGINAL
(Red)

Ruetgers-Nease Chemical Company, Inc.
State College, Pennsylvania
TDD No. F3-8011-09
EPA No. PA - 201

POLAROID PHOTOS

<u>Photo #</u>	<u>Date</u>	<u>Time</u>	<u>Subject</u>
1	01/20/81	0845	T. Shannon sampling Well #16, Site #06.
2	01/20/81	0925	Site #01, Before sampling.
3	01/20/81	0927	Sampling Site #01.
4	01/20/81	1045	Site #02, Obtaining sample.
5	01/20/81	1147	Site #02, Sample in bucket.
6	01/20/81	1147	Site #07, Before sampling.
7	01/20/81	1149	Sample Site #07, Obtaining sample.
8	01/20/81	1207	Sample #07, Splitting sample.
9	01/20/81	1242	Site #08, Before sampling.
10	01/20/81	1255	Site #08, Obtaining sample.

35mm

1	D I S C A R D E D		
2	01/20/81	1007	Drilling rig at Site #03.
3	01/20/81	1010	A. Stone deconning bucket.
4	01/20/81	1155	Site from Command Post.
5	01/20/81	1305	Back hoe at Site #03.
6	01/20/81	1310	Back hoe at Site #03.
7	01/20/81	1327	Changing augers at Site #03.
8	01/20/81	1347	Spoon being removed at Site #03.
9	01/20/81	1445	Sample #04A being put in decontamination bucket for splitting.

AR100067

PHOTOGRAPHIC LOG

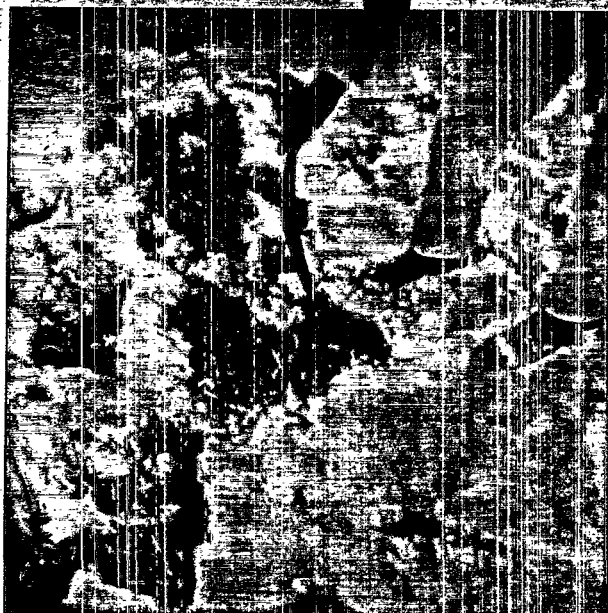
Ruetgers-Nease Chemical Company, Inc.
State College, Pennsylvania
TDD No. F3-8011-09
EPA No. PA - 201

ORIGINAL
(Red)

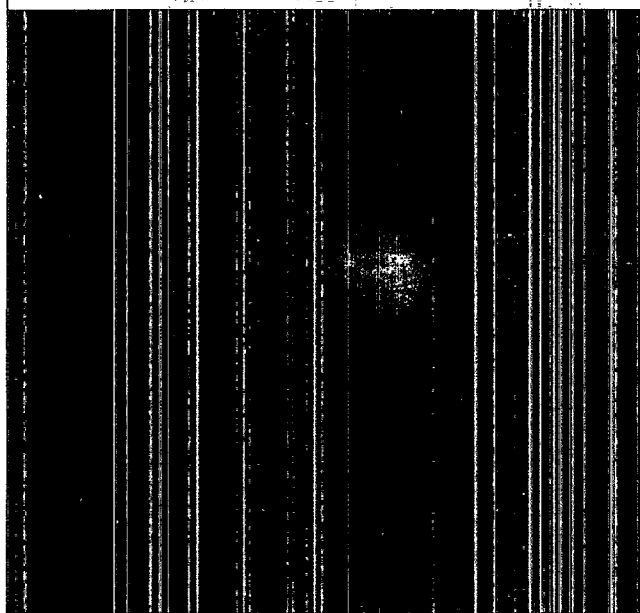
35mm (Continued)

10	01/20/81	1500	Augering at Site #04 for Sample #04B.
11	01/20/81	1604	Breeaking open split spoon, Sample #05A.
12	01/20/81	1604	Split spoon open, exposed chemfix, Sample #05A.
13	01/20/81	1605	Depositing chemfix from Sample #05A in decontamination bucket for splitting.
14	01/20/81	1606	Filling a C.B.S. sample bottle, Sample #05A.
15	01/20/81	1625	Sample #05B, Note layering of chemfix.
16	01/20/81	1630	Splitting Sample #05B.
17	01/20/81	1637	Core taken from bottom of chemfix layer at Site #05 showing the plastic vapor barrier and clay under the chemfix.
18	01/20/81	1637	Same as above.

AR100068



Rest

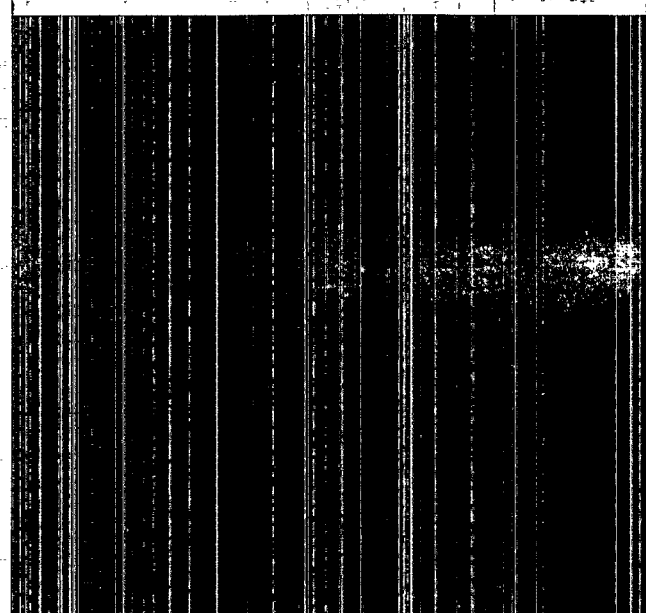


09003407124

PULANIDE

REUTERS - NEASE 03801109
SITE #01 Before sampling
1/20/81 0925

#2
R. B. She



09003407124

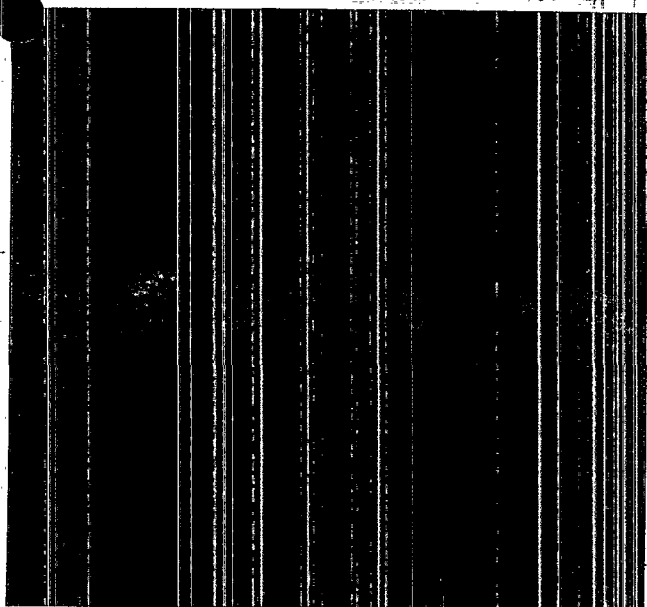
PULANIDE?

REUTERS - NEASE 03801109
SAMPLING WELL #16
0845 1/20/81 AR1000698ue

#1
R. B. She

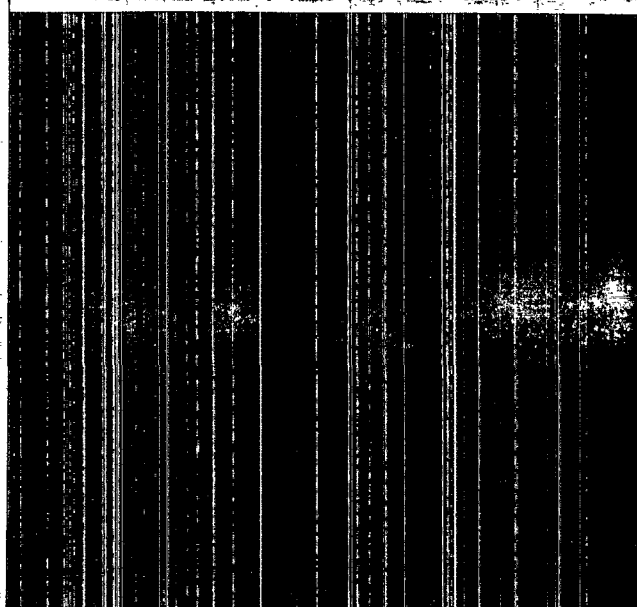


ORIGINAL
(Red)



REUTERS-NEASE
SITE #02 OBTAINING SAMPLE 03-8011-04
1/20/81 1045

W. B. She



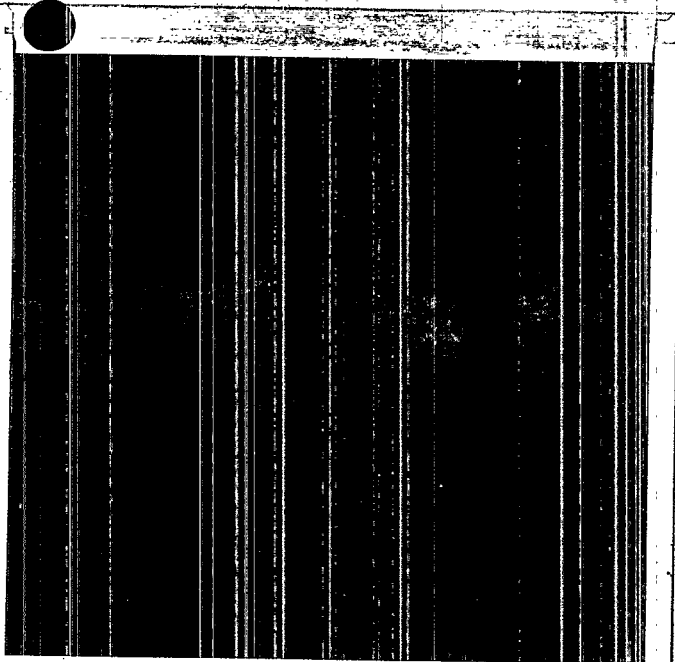
09003407124 POLAROID
REUTERS-NEASE 03-801109 #3
SAMPLING SITE #01
1/20/81 0927

W. B. She

AR100070



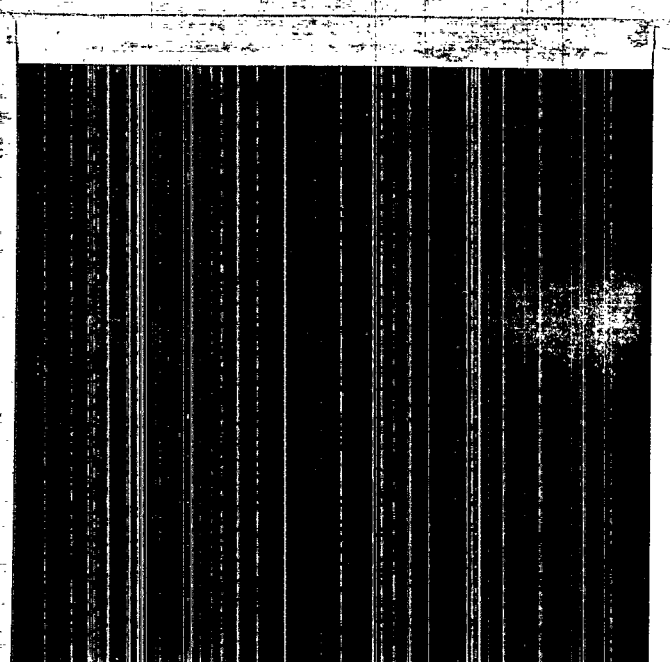
ORIGINAL
(Red)



#6

REUTERS-NEASE 03-8011-09
SITE # 07 before sampling
1/20/81 1147

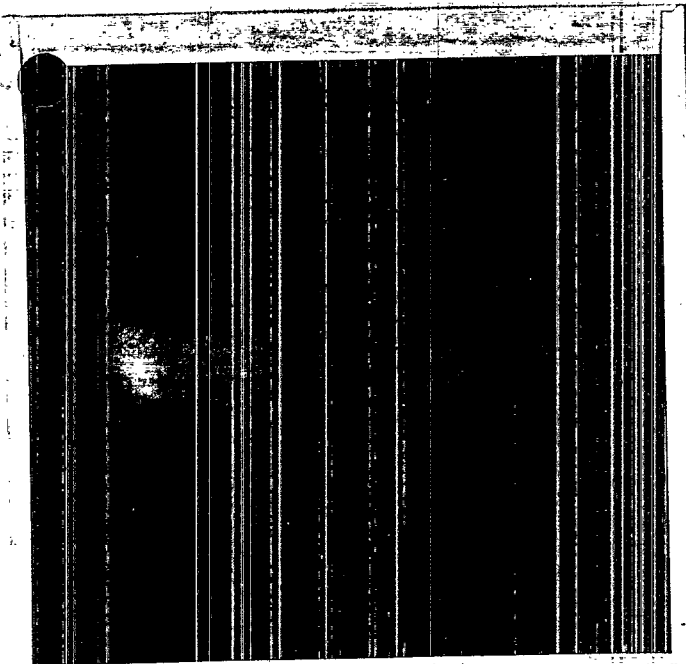
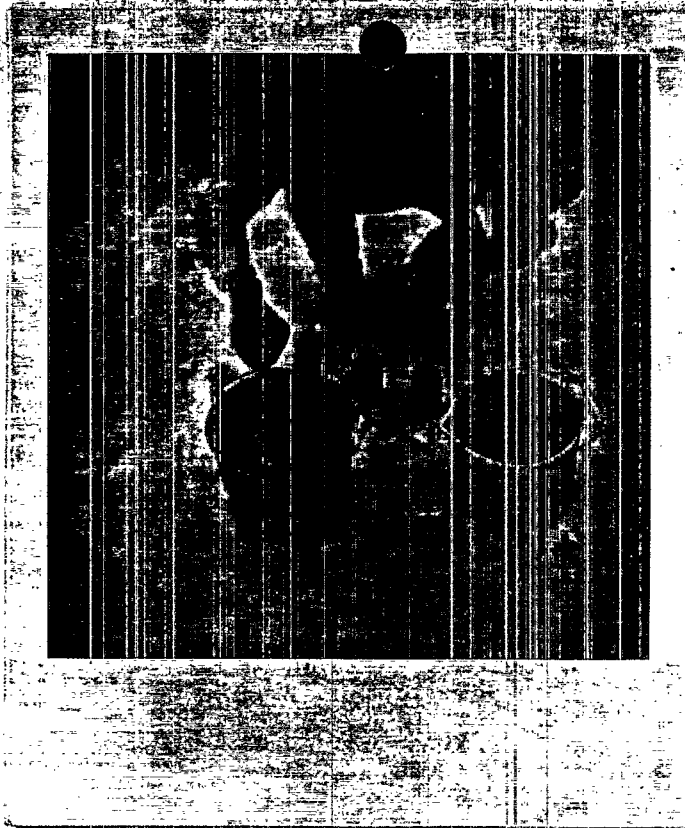
Alth Stue



#5

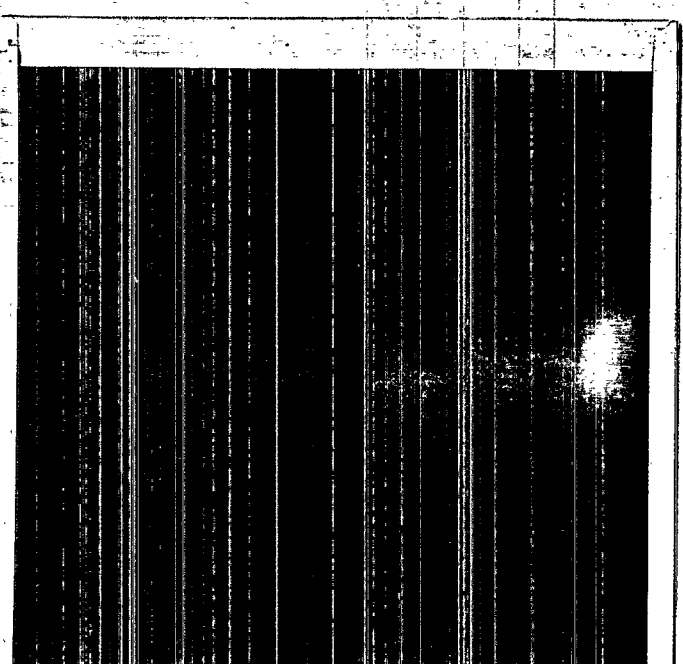
REUTERS-NEASE 03-8011-09
SITE #02 SAMPLE IN BUCKET
1/20/81 1047

AR100074-68he



REUTERS-NEASE 038011-09
SAMPLE #07, SPLITTING SAMPLE
1/20/81 1207

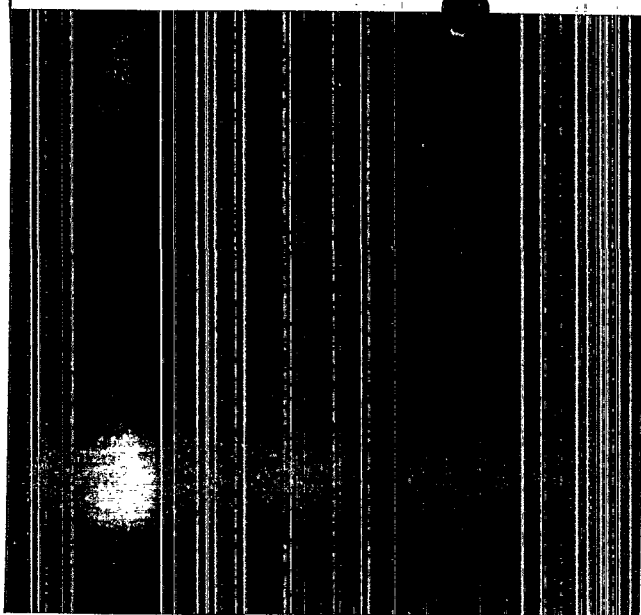
Attn: J. S. H.



REUTERS-NEASE 038011-09
SAMPLE SITE #07, obtaining sample
1/20/81 1145

AR100072

Attn: J. S. H.

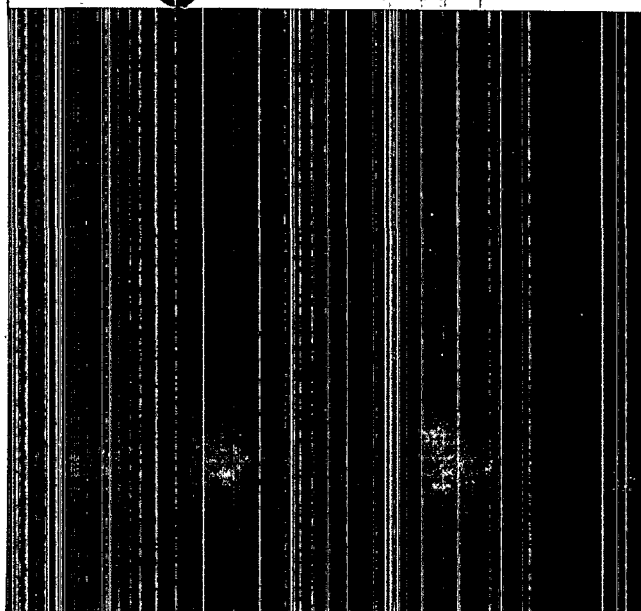


REUTERS-NEASE 038011-09
SITE #08 BEFORE SAMPLING

1/20/81 1242

Atchafalaya

#9

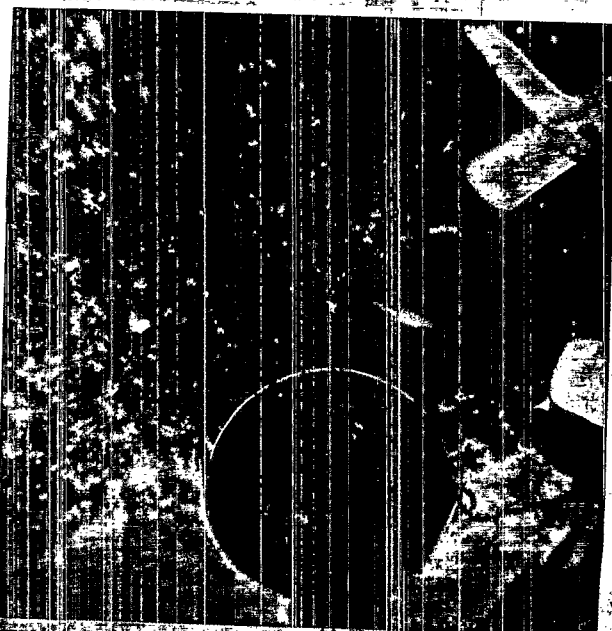


REUTERS-NEASE 038011-09
SITE #08 OBTAINING SAMPLE

1/20/81 1255

Atchafalaya

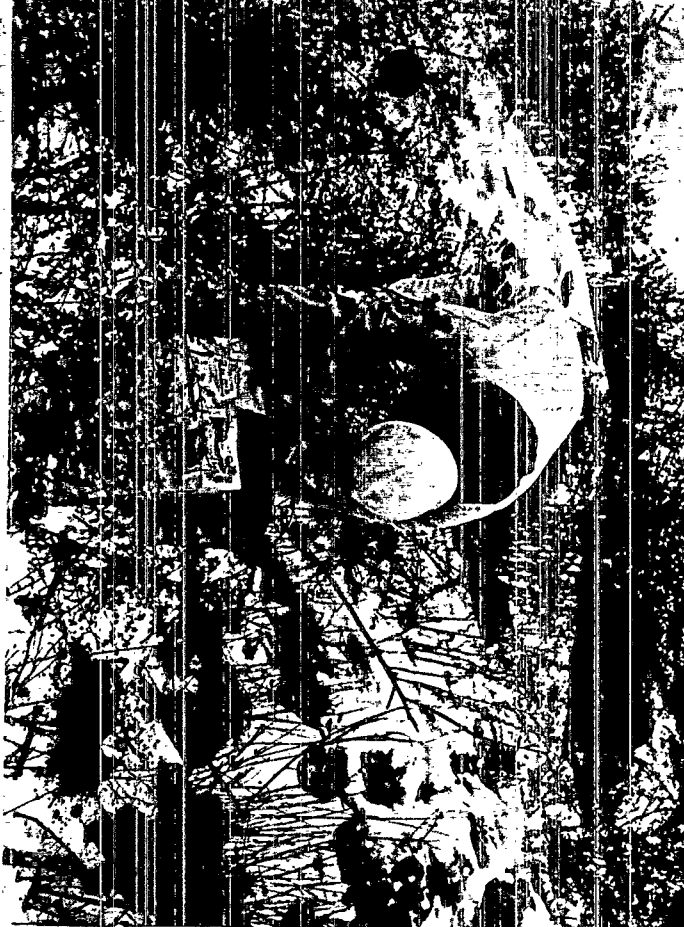
#10



ARJ000073

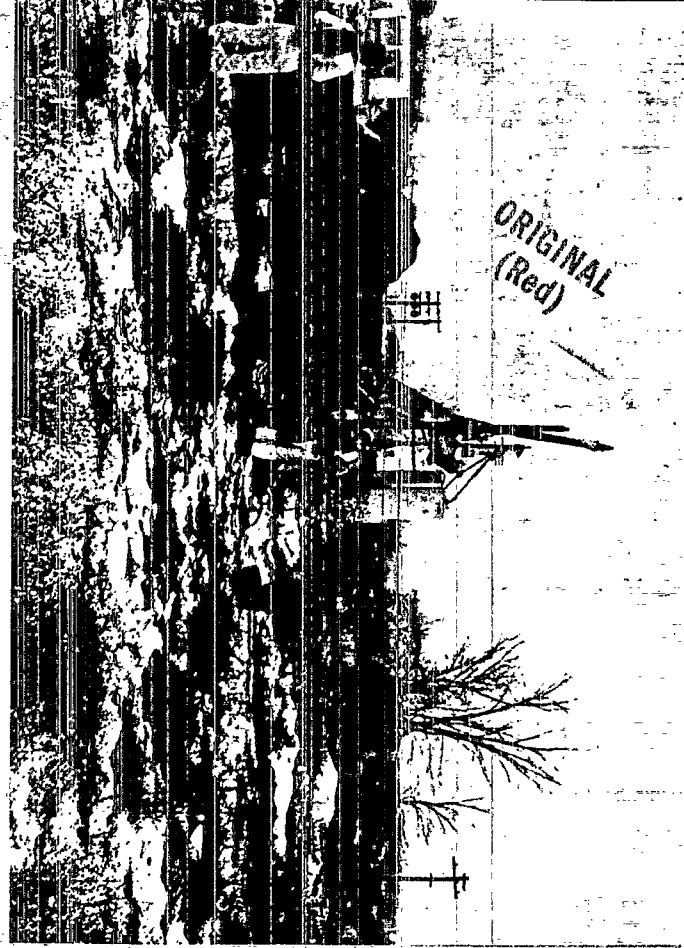
F3 8011-09 Rutgers-Neuse
1010 1/20/81
#3
A. Stone DECONNING BUCKET
USED FOR SOIL SAMPLES

Sam Johnson



F3 8011-09 Rutgers-Neuse
1007 1/20/81
#2
Drilling rig at site 03 relocating
due to rocks.

Sam Johnson



ORIGINAL
(Red)

AR100074

F3 0011-09 Kuehlers. Nease.

#4

*Sampling site 07 as seen
from C.P.

1155 1/20/81

Samuel

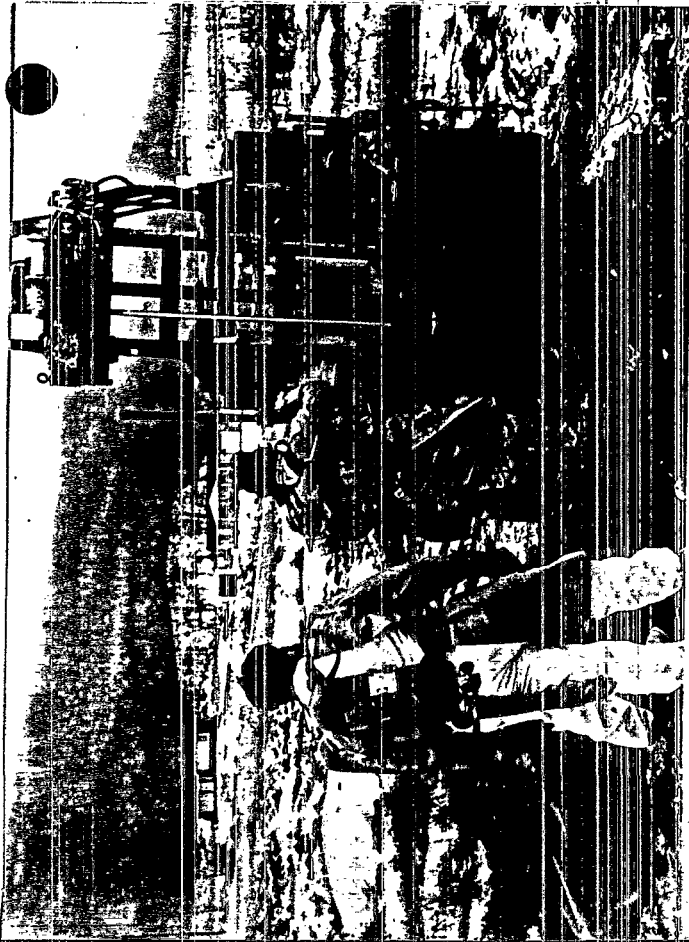
F3 0011-09 Kuehlers. Nease

#5

1305 Back hoe at site 03
1/20/81 *Samuel*

AR100075

ORIGINAL
(Red)



AR100076



F3 8011-09 Rutgers-Nease #7
1327 Changing Augers at site
1/20/81. 03.

[Signature]

F3 8011-09 Rutgers-Nease #6
1310 site 03. Note that back
hoe operator is 15'20" from
1/20/81 pit. wind is at his back.

[Signature]

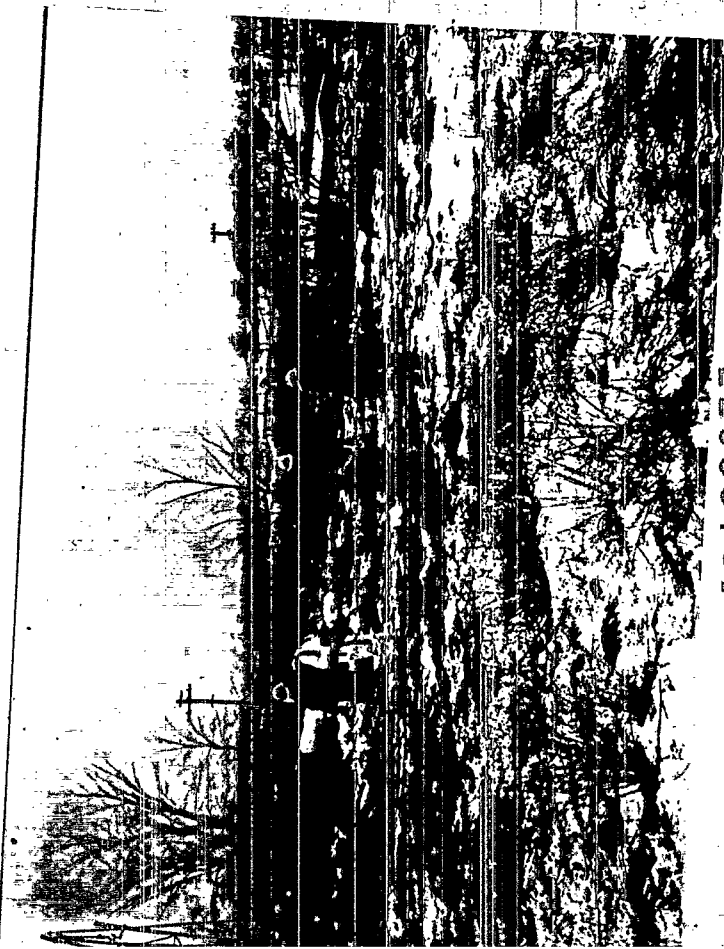
ORIGINAL
(Red)



F3 8011-09 Ruckers Nease #9
1445 1/20/81

Sample 4A being put in
decontaminated bucket for
splitting.

[Signature]



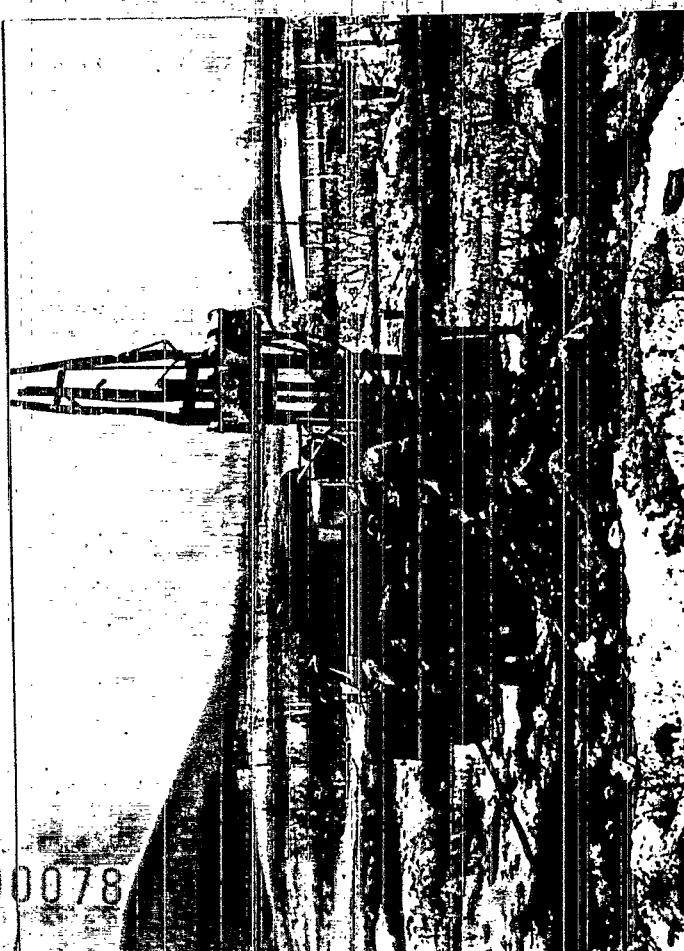
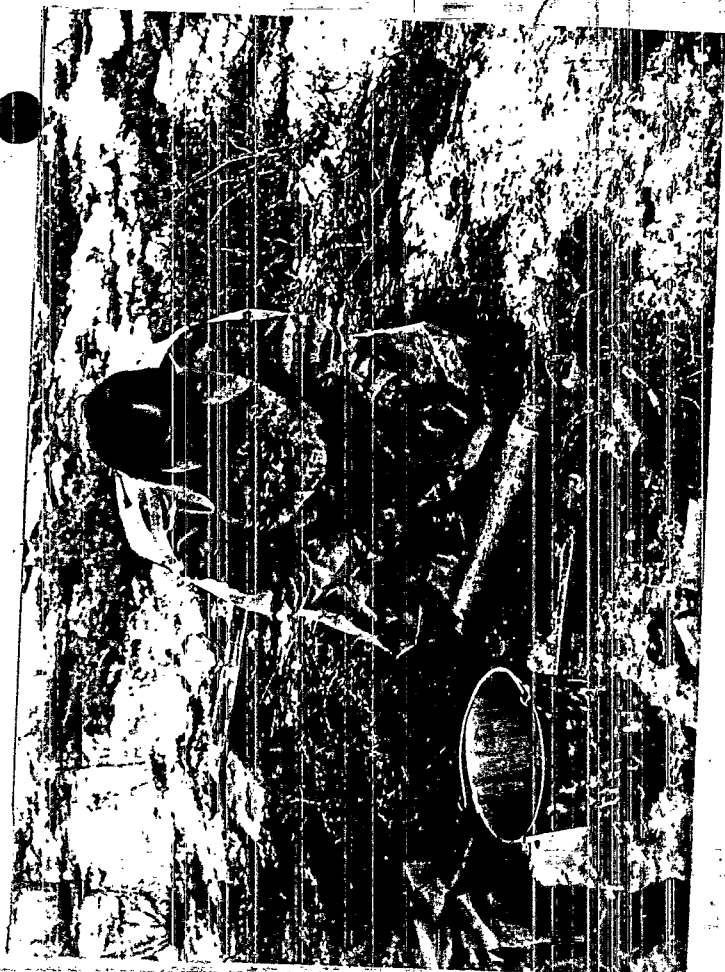
F3 8011-09 Ruckers Nease #8
1347 1/20/81

Spoon being removed for
sampling at 03, the
sample was discarded.

[Signature]

ORIGINAL
(Red)

AR100077



AR100078

#11
F3 8011-09 Rodgers - Nease
1604 1/20/81 Sample 5A
64 F. Air's breaking open
5p1.7 spec.
[Signature]

#10
F3 8011-09 Rodgers - Nease
1500 1/20/81
Augering at 5.7e 04 per
Sample 04B.
[Signature]

ORIGINAL
(Red)



AM100079

F38011-09 Rutgers Nease #12
 1604 1/20/81 Sample 5A
 64 SP17 spoon open; Chemfix
 exposed.

[Signature]

F38011-09 Rutgers Nease #13
 1605 1/20/81
 64 Depositing Chemfix from
 5A in decontaminated
 bucket for SP17ing.

[Signature]

ORIGINAL
 (Red)



F38011-09 Rutgers. Nease #15

1625 1/20/81

Sample 5B Exposed w/o
layering.

Samuel

F38011-09 Rutgers. Nease #14

1600 99
4406 99 1/20/81

F. Quirus Filling a C.B.S.
Sample do the from 5A.

Samuel

APR 11 0010180



000081

F3 8011-09 Ruetgers Nease #16

1630 F. Quirus splitting

Sample 5B.

[Signature]

F3 8011-09 Ruetgers Nease #17
1/20/81

1637 Core taken at bottom
of Chemfix layer at

P. 7 #3615 Chemfix bottom at 11.7'

Note plastic vapor
barriers, clay.

ORIGINAL
(Red)

[Signature]

5

437 Vol. 2 of 2

at Chestnut 1840-1850

Chas. J. Smith

St. Louis, Mo. 1891.

10

AR100082

ORIGINAL
(Red)

SECTION 4

AR100083

WELL #2
● SITE 01
● SITE 02

SLOPE

RUETGERS-NEARSE CHEM.

7DD F3-8011-09

Pa 201

UPPER CHEMFIX
● SITE 03
● SITE 04
● WELL #16
● SITE 05
● SITE 06

WELL #11
● SITE 08

CONCRETE
RETENTION
POND

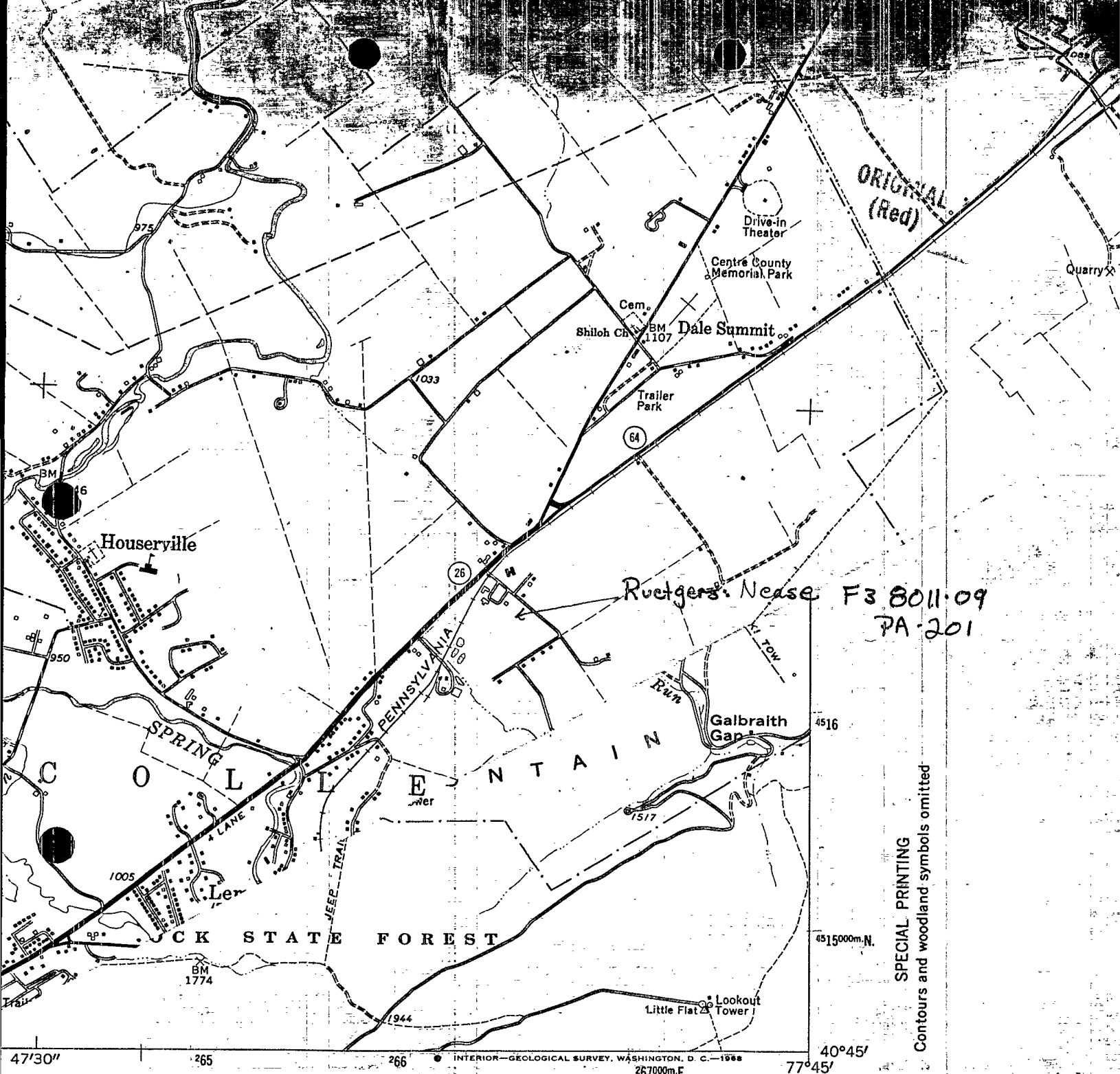
WELL #10 - SITE 10

WELL #9
● SITE 07
DRAINAGE DITCH
R.R.

ORIGINAL
(Red)

NOT TO SCALE

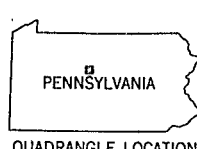
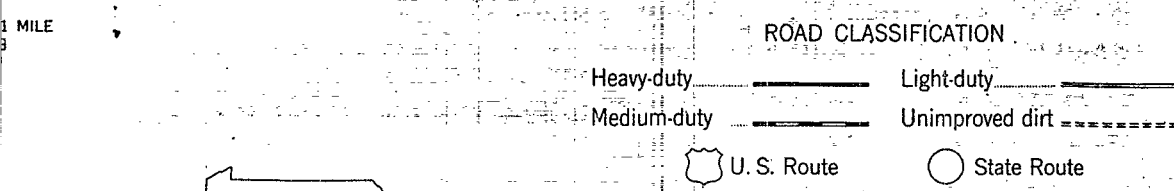
N



Rutgers Nease F3 8011-09
PA-201

SPECIAL PRINTING
Contours and woodland symbols omitted

(LEWISTOWN 1:62,500)



STATE COLLEGE, PA.
SE/4 BELLEFONTE 15' QUADRANGLE
N4045-W7745/7.5

1962

AR100085

AMS 5465 IV SE-SERIES V831

ORIGINAL
(Red)

SECTION 5

AR100086

**FIELD INVESTIGATIONS OF
UNCONTROLLED HAZARDOUS WASTE SITES**

ORIGINAL
(Red)

FIT PROJECT

**TASK REPORT TO THE
ENVIRONMENTAL PROTECTION AGENCY
CONTRACT NO. 68-01-6056**

Interim Report

Ruetgers-Nease Chemical Company
TDD No. F3-8011-09
EPA No. PA - 201

ecology and environment, inc.

International Specialists in the Environmental Sciences

AR100087

RUETGERS-NEASE CHEMICAL COMPANY

TDD No. F3-8011-09

EPA No. PA - 201

ORIGINAL
(Reg)

Interim Report

Introduction

After several weeks of preparation to complete this TDD, legal problems have complicated site access. After discussions with both Walt Lee and Heather Gray, FIT III was instructed to conduct off-site sampling immediately, and to reschedule on-site sampling for the week of January 12, 1981.

Trip Report

On Wednesday, December 10, 1980, Garth Glenn and Gregg Crystall of Ecology & Environment, Inc. FIT III conducted the off-site sampling as requested by Heather Gray and Walt Lee. Samples were taken at one site, Thornton Spring. The sampling site was chosen by taking pH readings from the source of the spring down to the confluence with Spring Creek. The sampling site was located in the area of the highest pH (7.5), as instructed by Walt Lee. The purpose for locating the sampling there is because Kepone is more soluble in water with a high pH.

The sampling site was located on the Jodon property at 203 Pike Street, State College, Pennsylvania. A very strong chemical odor was noted emanating from the spring. Mrs. Jodon stated that they had been living there for 19 years and that the odors had decreased over the years.

The following is information on the sampling and the labs doing the analysis. Please find attached Lab sheets, Chain-of-Custody and Sample receipts associated with this sampling.

<u>Station Description</u>	<u>Sample Type</u>	<u>Traffic Report</u>	<u>Lab</u>
#09 Thornton Spring	Inorganic & Blank	MC - 8115	Anetec Labs
#09 Thornton Spring	Extractable Organics	C - 0340	Energy Resources Co.
	Volatile Organics		
	Extractable Organic & Volatile Organic Blanks	C - 0347	Energy Resources Co.
#09 Thornton Spring	Water (Kepone & Mirex)	N/A	NEIC
#09 Thornton Spring	Surface Sediment (Kepone & Mirex)	N/A	NEIC

AR100088



INORGANICS TRAFFIC REPORT

Sample Number

M

<p>① Case Number: <u>335</u></p> <p>Sample Site Name/Code: <u>Pennock Road</u> <u>CHEMICAL Co</u></p>	<p>② Sample Type: (Check One)</p> <p><input type="checkbox"/> Run Off <input type="checkbox"/> Well Water <input type="checkbox"/> Receiving Water <input type="checkbox"/> Leachate <input type="checkbox"/> Effluent <input checked="" type="checkbox"/> Other: <u>SPRING - BLANK</u> (specify)</p>	<p>③ Ship To: <u>ORIGINAL</u> <u>ANETEC LABS INC.</u> <u>435 TESSAWI CIRCLE</u> <u>SOUTH F. CO., CA.</u> <u>95401</u></p> <p>Attn: <u>GREG ANDERSON</u></p>
<p>④ Regional Office: <u>San Francisco</u></p> <p>Sampling Personnel: (Name) <u>CHUCK F. DAVIS</u> (Phone) <u>415-614-7373</u> Sampling Date: (Begin) <u>10-10-80</u> (End) <u>11-11-80</u></p>	<p>⑤ Shipping Information:</p> <p>Name Of Shipper: <u>FEDERAL EXPRESS</u></p> <p>Date Shipped: <u>10-10-80</u></p> <p>Airbill Number: <u>71379842</u></p>	
<p>⑥ Description of Sample Location: <u>STATION #09</u> <u>THORNTON SPRING</u></p> <p><u>BLANK MATCHES ORGANICS 0347</u></p> <p>MATCHES ORGANICS SAMPLE NO <u>00340</u></p>	<p>⑦ Mark Volume Level On Sample Bottle</p> <p>Date Sampled</p> <p>Task 1 & 2 <u>10-10-80</u></p> <p>Task 3 Ammonia & TOC _____ Fluoride & pH _____ Sulfide _____ Cyanide _____</p>	

REGIONAL OFFICE FILE COPY

AR100089



ORGANICS TRAFFIC REPORT

① Case Number:

335

Sample Site Name / Code:

RUTGERS - KEASE

CHEMICAL CORP.

② Sample Type: (Check One)

Run Off

Well

Receiving Water

Leachate

Effluent

☒ Other (specify) SPRING

③ Ship To:

ORIGINAL CO.
ENERGY RESOURCES
185 ALWIFE CROOK PARKWAY
CAMBRIDGE, MA.

02138

Attn:

DALLIS WAITE

④ Regional Office:

Sampling Personnel:

GARY GILBERT

(Name)

609-663-7575

(Phone)

Sampling Date:

12-10-80 12-10-80

(Begin)

(End)

⑤ Mark Volume Level on Sample Bottle

Date
Sampled

Extractable

12-10-80

Extractable

12-10-80

Extractable

12-10-80

Extractable

12-10-80

VOA Unpreserved

12-10-80

VOA Unpreserved
(Duplicate)

12-10-80

⑥ Shipping Information

FEDERAL EXPRESS

Name of Shipper:

12-10-80

Date Shipped:

71378851

Airbill Number:

⑦ Description of Sample Location:

STATION #09

THORNTON SPRING

⑧ Special Handling Instructions:

(e.g., safety precautions, hazardous nature)

AR100090

REGIONAL OFFICE FILE COPY



ORGANICS TRAFFIC REPORT

02138

<p>① Case Number: <u>335</u></p> <p>Sample Site Name / Code: <u>RUEGELS-Neape</u> <u>CHAMBERS CO.</u></p>	<p>② Sample Type: (Check One)</p> <p><input type="checkbox"/> Run Off</p> <p><input type="checkbox"/> Well</p> <p><input type="checkbox"/> Receiving Water</p> <p><input type="checkbox"/> Leachate</p> <p><input type="checkbox"/> Effluent</p> <p><input checked="" type="checkbox"/> Other (specify) <u>BLANK</u></p>	<p>③ Ship To:</p> <p><u>ORIGINALS Co.</u> <u>ENERGY RESOURCES</u> <u>185 ALEWIFE PARKWAY</u> <u>CAMBRIDGE, MA.</u> <u>02138</u></p> <p>Attn: <u>DALLAS WAITE</u></p>
---	--	--

<p>④ Regional Office: Sampling Personnel: <u>GARTH GLEN</u> (Name) <u>609-865-7515</u> (Phone) Sampling Date: <u>12-10-80</u> <u>12-10-80</u> (Begin) (End)</p>	<p>⑤ Mark Volume Level on Sample Bottle</p> <table border="1"><thead><tr><th></th><th>Date Sampled</th></tr></thead><tbody><tr><td>Extractable</td><td><u>12-10-80</u></td></tr><tr><td>Extractable</td><td><u>12-10-80</u></td></tr><tr><td>Extractable</td><td><u>12-10-80</u></td></tr></tbody></table>		Date Sampled	Extractable	<u>12-10-80</u>	Extractable	<u>12-10-80</u>	Extractable	<u>12-10-80</u>
	Date Sampled								
Extractable	<u>12-10-80</u>								
Extractable	<u>12-10-80</u>								
Extractable	<u>12-10-80</u>								

<p>Shipping Information</p> <p><u>FEDERAL EXPRESS</u> Name of Shipper: <u>12-10-80</u> Date Shipped: <u>71378851</u> Airbill Number:</p>	<table border="1"><tbody><tr><td>Extractable</td><td><u>12-10-</u></td></tr><tr><td>VOA Unpreserved</td><td></td></tr><tr><td>VOA Unpreserved (Duplicate)</td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	Extractable	<u>12-10-</u>	VOA Unpreserved		VOA Unpreserved (Duplicate)							
Extractable	<u>12-10-</u>												
VOA Unpreserved													
VOA Unpreserved (Duplicate)													

⑦ Description of Sample Location:
BLANK

⑧ Special Handling Instructions:
(e.g., safety precautions, hazardous nature)

REGIONAL OFFICE FILE COPY

AR100091

CHAIN OF CUSTODY RECORD

[illegible]

CHAIN-OF-CUSTODY RECORD

[illegible]

AR100093

CHAIN OF CUSTODY RECORD

Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 1910

[illegible]

AR100094

ORIGINAL
(Red)

SAMPLE RECEIPT

On DEC. 10, 1980, 1980, Ecology & Environment, Inc., representative
GARTH GLENN received permission from ELIZABETH JODON
to remove material from his/her property, contained in SEVEN (7)
1-quart glass organic sample bottle(s), TWO (2) 40 ml glass volatile organic
sample bottle(s), ONE (1) 8 oz. glass hazardous sample jar(s) and ONE (1)
inorganic 1-quart polyethylene sample bottle(s).

203 PIKE STREET

Elizabeth Jodon
Property Owner, Signature & Date

[Signature] 12-10-80
Ecology & Environment, Inc.,
Representative Signature & Date

AR100095

ORIGINAL
(Red)

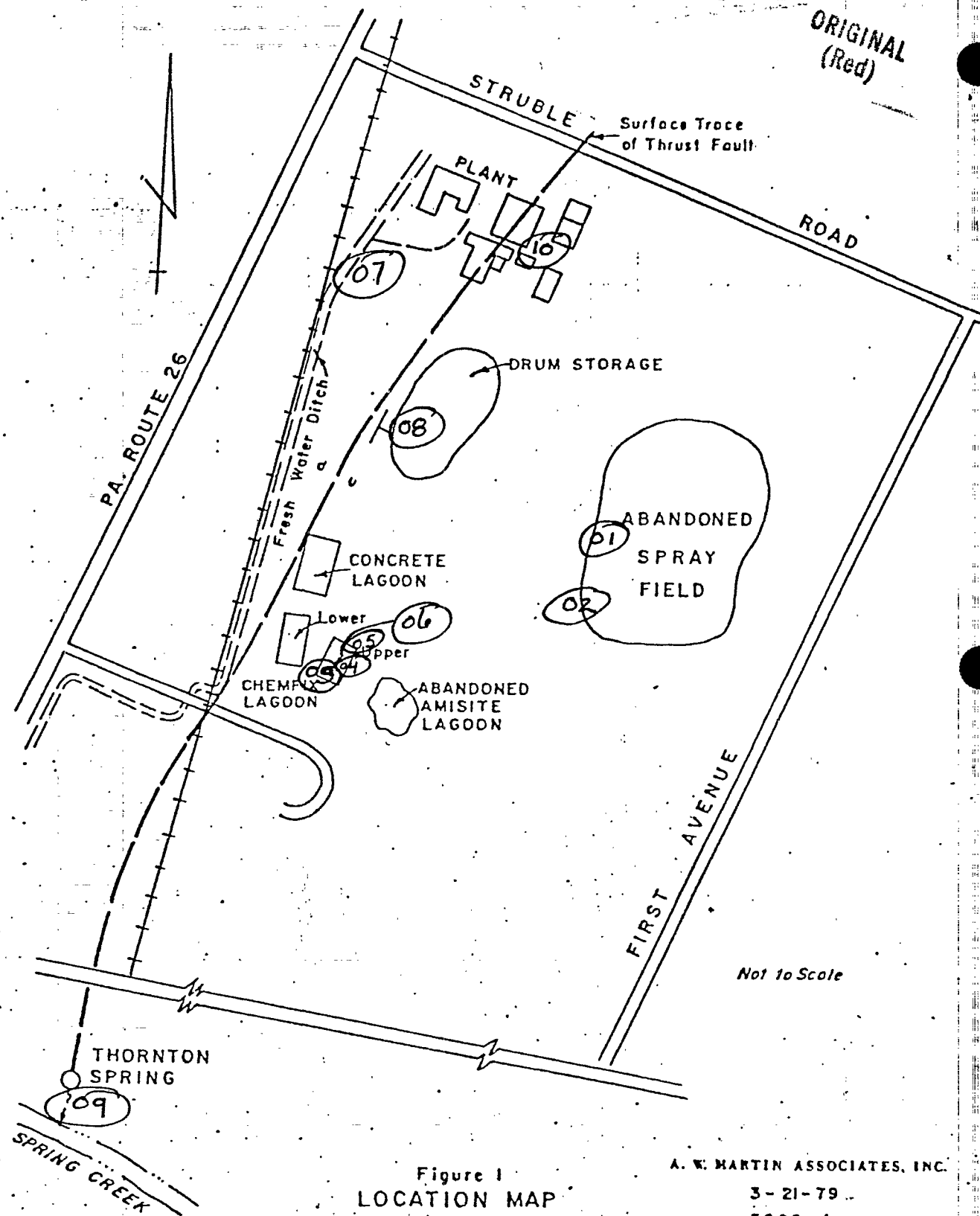


Figure 1
LOCATION MAP

A. W. MARTIN ASSOCIATES, INC.

3-21-79

5288-4

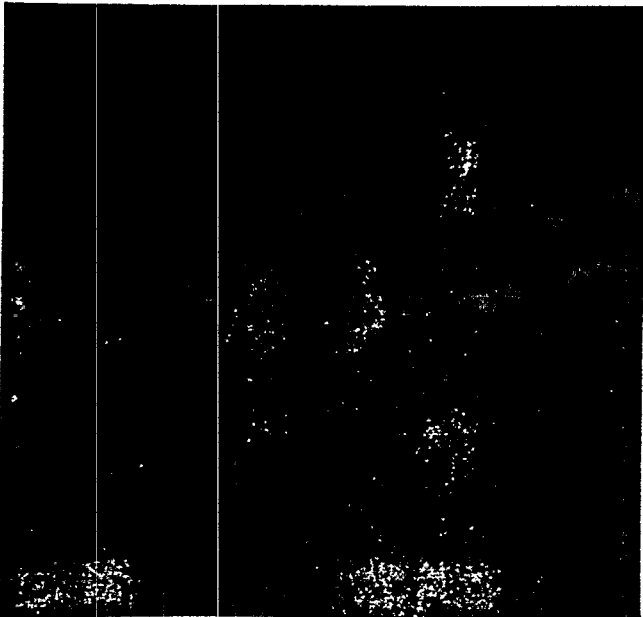
SAMPLING SITES TDD F3 8011-09



ARI00097

TDD F38011-09

Garth Glen sampling Thornton
springs.
10:45
Ruehgers Nase
F3-8011-09
12-10-80



Garth Glen sampling
Thornton springs.
10:45
Ruehgers Nase
F3-8011-09
12-10-80

