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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

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A Site Resampling of

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

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SECTION 1

FIELD TRIP REPORT

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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

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PERTINENT COMMENTS

Harold Klotz

Upset that the Environmental Protection Agency (EPA) had FIT III sample offsite 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.

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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.

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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.

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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.
- 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 gluelike 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.

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SECTION 2

SAMPLING REPORT

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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.

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SAMPLE LOG

Add

Sample	Station Description	Date	Time	Sample Type	Split With C.B.S.	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	Kepone & Mirex
00	Spray Field Grid D 1/2 - \times 1/4 Surface Soil	01/20/81	1045	Soil	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
03A*	Pit #1 Upper Chemfix Grid R-R prime 5'	01/20/81	1420	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepone & 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	Kepone & Mirex
04B	Pit #2 Upper Chemfix Grid Y-Y prime 9 1/2'	01/20/81	1530	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
05A	Pit #3 Upper Chemfix Grid B-B prime 5'	01/20/81	1602	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
05B	Pit #3 Upper Chemfix Grid B-B prime 9'	01/20/81	1623	Chemfix	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
90	Well #16 in Upper Chemfix	01/20/81	0845	Groundwater	Yes	Yes	+	N/A	NEIC	Kepone & Mirex
AR	Clean Water Ditch Surface Sediment	01/20/81	1147	Soil	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
IÝ) () (Drum Storage Area Surface Soil	01/20/81	1255	Soil	Yes	Yes	Yes	N/A	NEIC	Kepone & Mirex
056	* ONLY ONE SAMPLE WAS OBTAINED AT THIS LOCATION	HIS LOCATIC		DUE TO THE FACT THAT THE CHENETX LAYER WAS SO NARROW.	AT THE CL	EMIX 1.4	YER WAS	S SO NARROW.	NO DEEP CHEMETY COULD BE LOCATED.	OULD BE LOCATED.
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^{*} CINLIE CAULT LAND CONTROLL OF THE WAITEN WELL WHICH BOTH FIT III AND C.B.S. FELT WAS NOT A REPRESENTATIVE SAMPLE. (CONTRACT LABS COULD NOT ANALYZE STUDY.)

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

SAMPLE LOG

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Time	1500	1500	1500				
Sample Type	Groundwater	Groundwater	Groundwater	Blank	Blank	Blank	Bl.ank
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Add Split With C.B.S.	Yes	S S	<u>9</u>	<u>Q</u>	Yes	<u>8</u>	Yes
Split With DER	Yes	Yes	Yes	Yes	Yes	Yes	No No
T.R. No.	N/A	MC-8116	C-0341	C-0388	N/A	MC-8116	N/A
Laboratory	NEIC	Anatec	Energy Res. Co.	Energy Res. Co.	NEIC	Anatec	NEIC
Analysis	Kepone & Mirex	Inorganics	Extractable Organics and Volatile Organics	Extractable and Volatile Organics	Kepone & Mirex	Inorganics	Kepone & Mirex

^{**} BLANKS WERE EXCHANGED WITH C.B.S. BECAUGE THEY OPTED TO USE THEIR OWN GLASSWARE FOR ALL SAMPLE COLLECTION. FIT III CAVE C.B.S. IND BOTTLES 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.

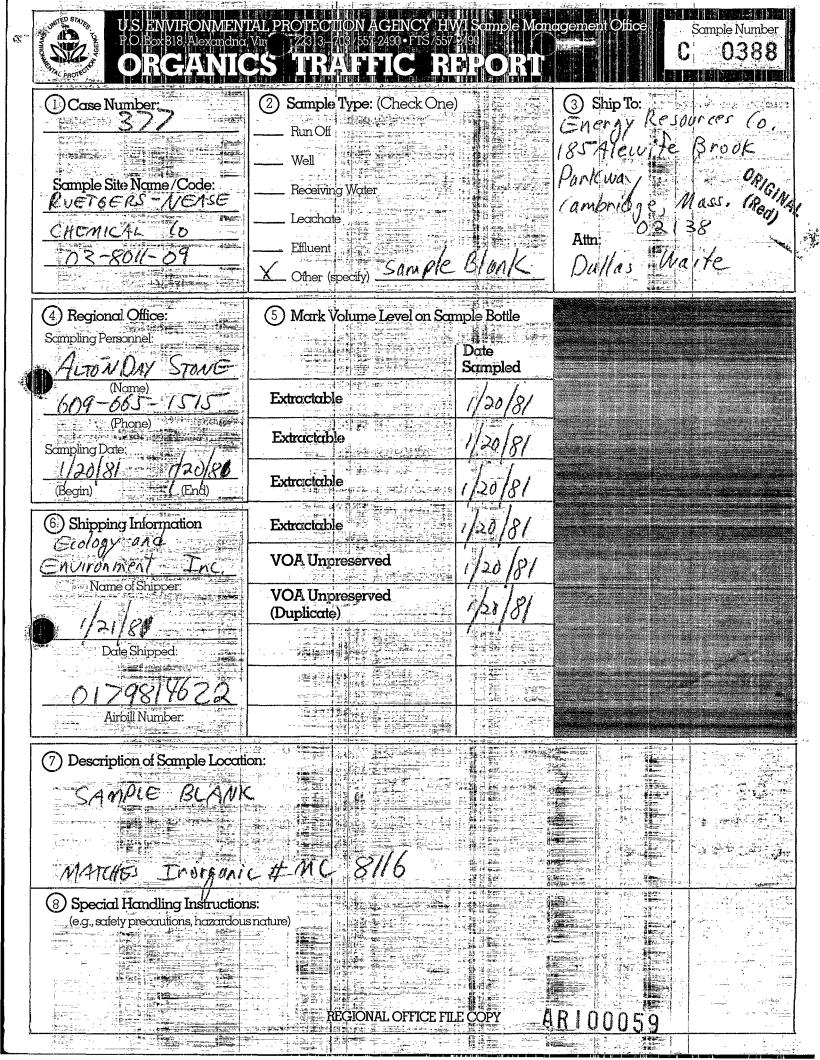


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REGION:3

<u>Philadelphia, Pennsylvania 19106</u> Curtis Bldg., 6th & Walnut Sts.

CHAIN OF CUSTODY RECORD

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CHAIN OF CUSTODY RECORD & RECEIPT

REGION 3

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

(Signature)	Date / Time Received by: /Signature Relinquishe	01/29/24 1710		IN ADD. TION SAMPLE	BLANK WATER 1 2	10 01/2018 1500 × WGLC # 0 7 2	08 of 129/8 1255 X DRUM Storage and surface 1 2	07 al/20/81 1147 X clean water Ditch sortweet 1 2	06 pilsofa 0845 × Well #16 3 2	X Prof #3 upper chempsy,	05 A oi/zo/81/1602 > Pit #3 Upper Chentis, 1 2	M X PYTHY OPPER CHANGE	×	, ,	1045 K SPORT FIELD CALL ARE LA	surface soil	NO. DATE TIME OF AS STATION LOCATION	- 11411 A Com	S. (Signature) CADER CADER	(GIN)	PROX NO. PROJECT NAME
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ORIGINAL (Red)

SECTION 3

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PHOTOGRAPHIC LOG

ORIGINAL (Red)

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

POLAROID PHOTOS

Photo #	Date	Time	Subject
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.
	3	-= =	

35mm

1	DISCAR	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.

PHOTOGRAPHIC LOG

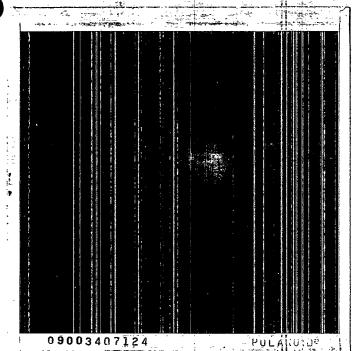
ORIGINAL (Red)

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

35mm (Cont	tinued)		
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.





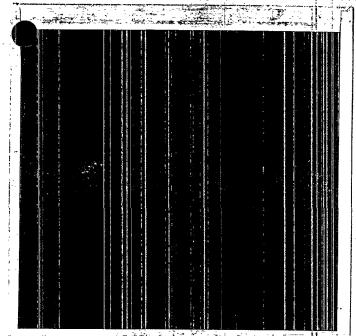


REUTGER -NEASE 038CHOO SITE #61 Before sampling 1/20/81 0925 090034n7124

REUTGERS - NE ASE 03801109 #1 SAMPLING WELL # 16 C845 1/20/81 AR 10046 98 COR

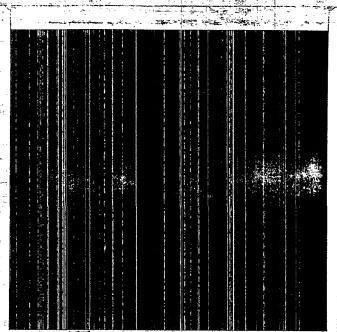






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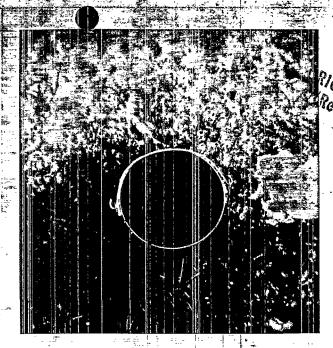
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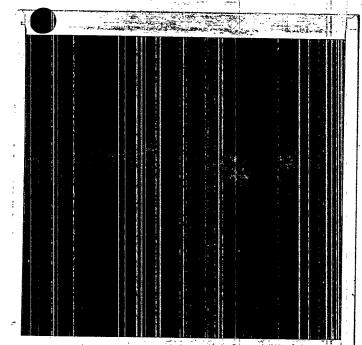


09003407124 PULALLA REUTGERS-NEASE 03801109 #3 SAMPLING SITE #01

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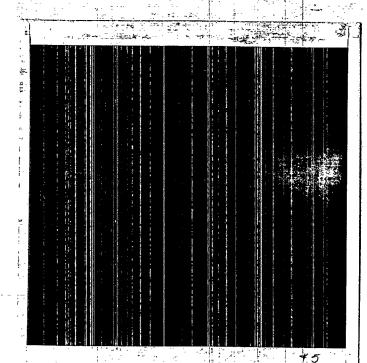




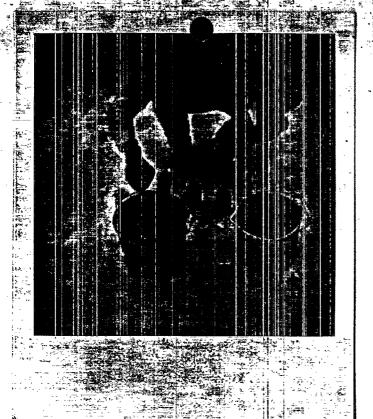


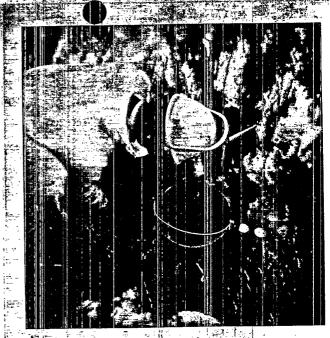
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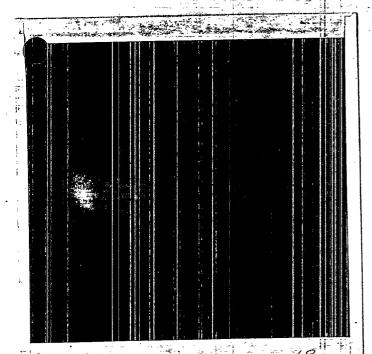
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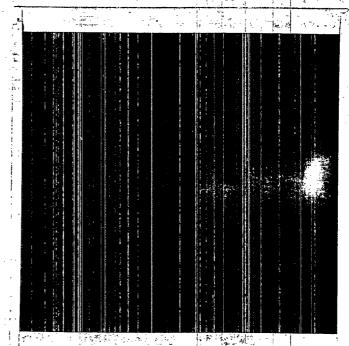
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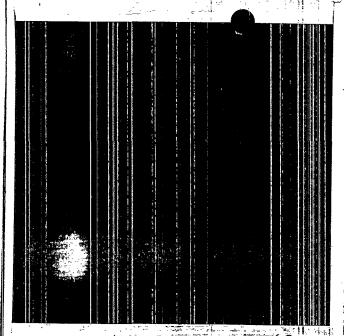






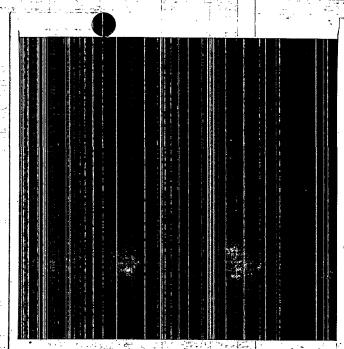
REUTGERS-NEASE 038011-09 SAMPLE #07 SPLITTING SAMPLE 1/20/81 1207 Ath. 138





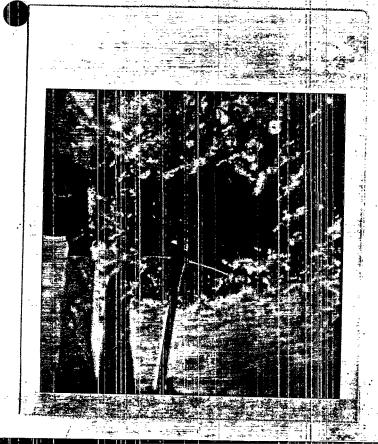
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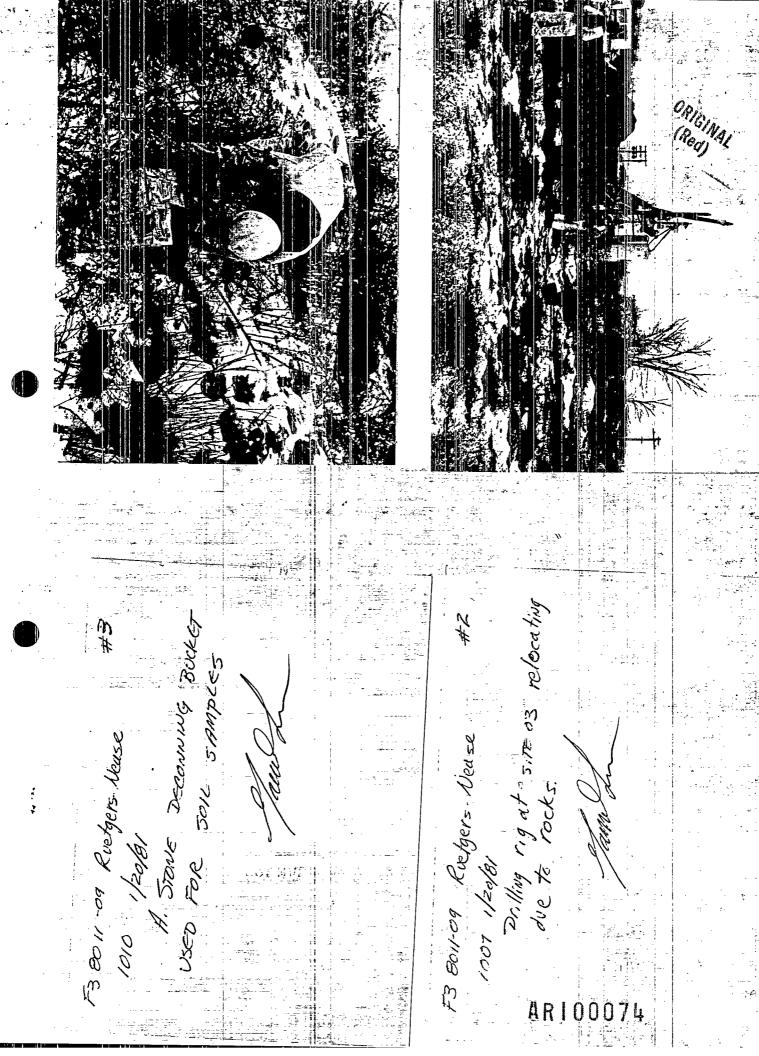


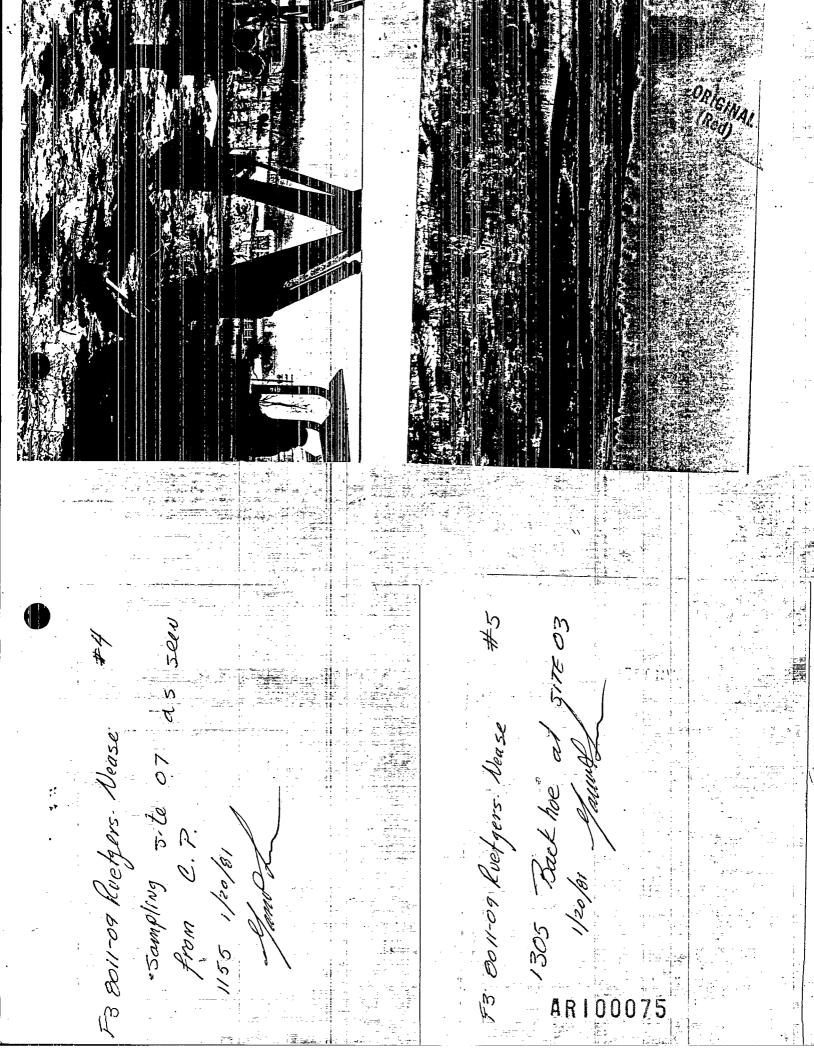
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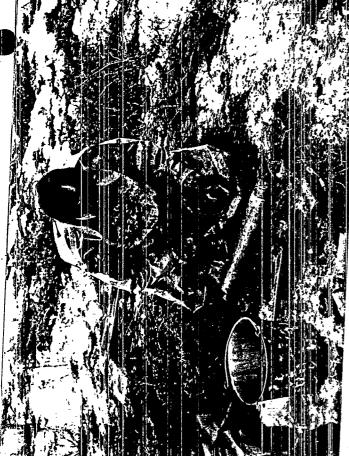
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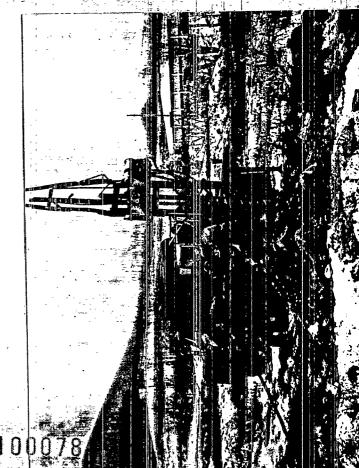
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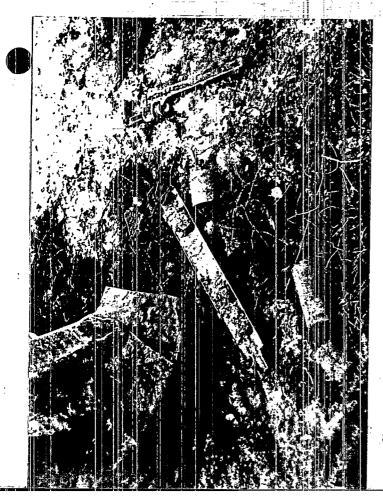
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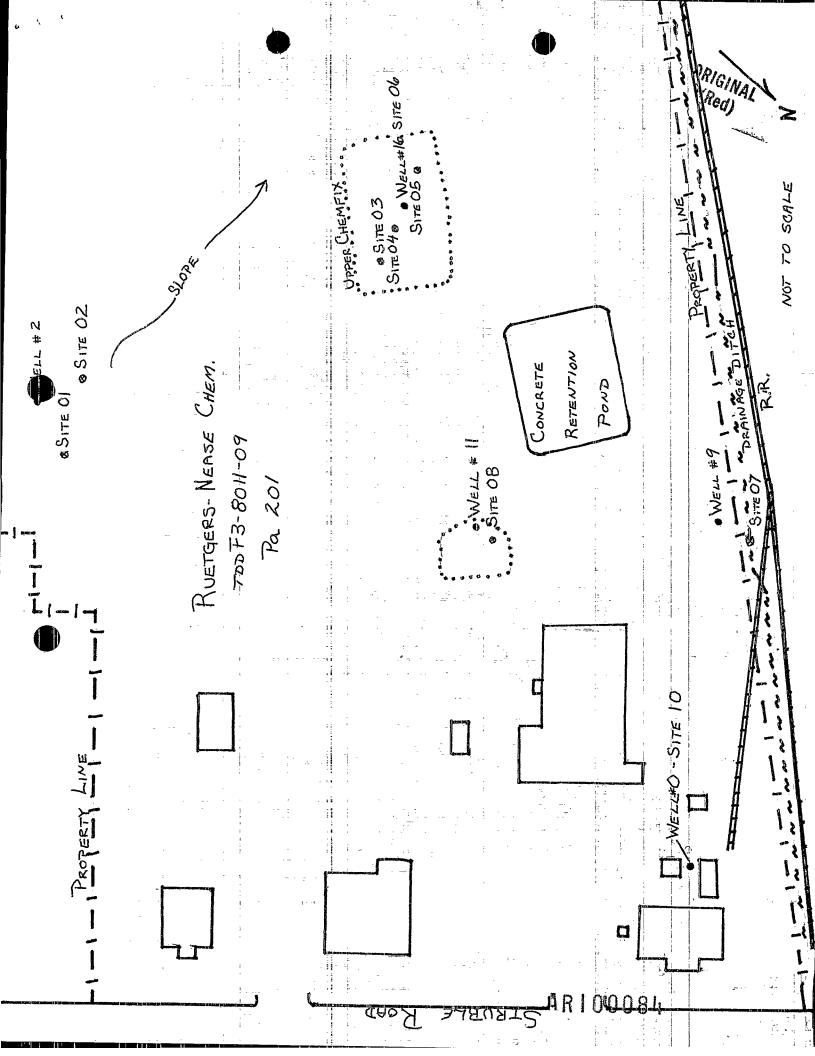


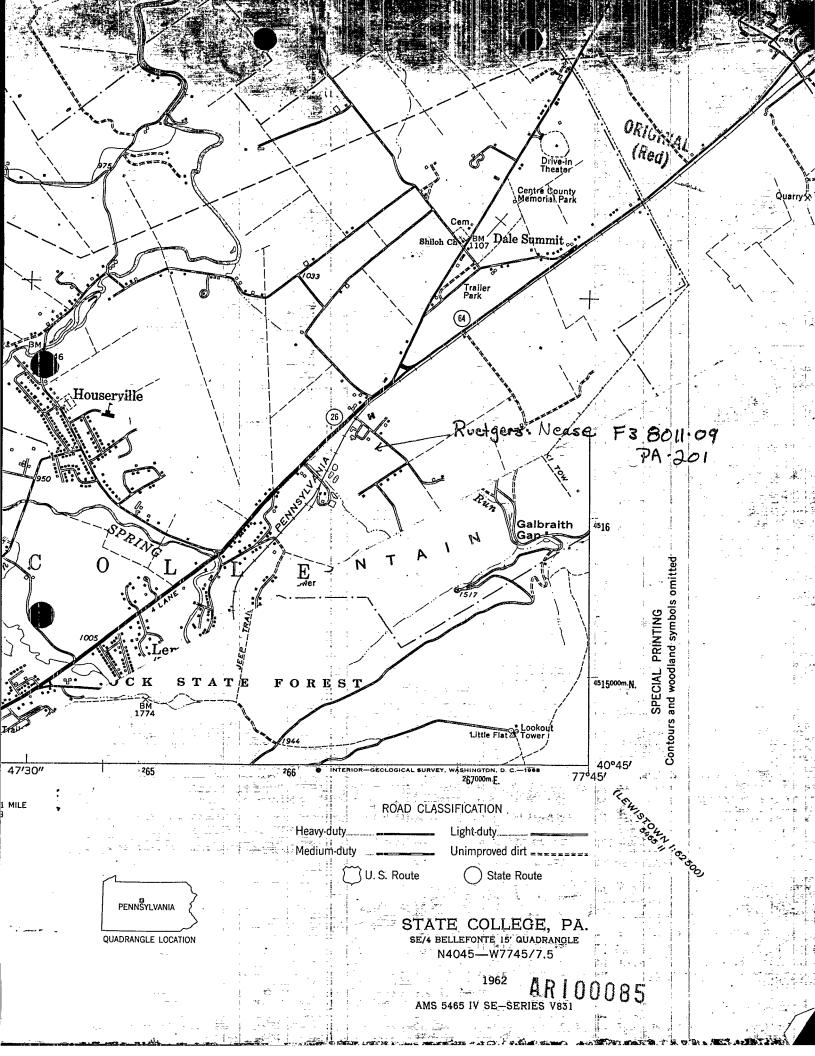


ORIGINAL (Red)

ORIGINAL (Red)

SECTION 4





ORIGINAL (Red)

SECTION 5

FIELD INVESTIGATIONS OF UNCONTROLLED HAZARDOUS WASTE SITES

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

RUETGERS-NEASE CHEMICAL COMPANY TDD No. F3-8011-09 EPA No. PA - 201



*

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 soluable 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 eminating from the spring. Mrs. Jodon stated that they had been living there for 19 years and that the odors had decreased over the years.

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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.

Sta	tion Desci	ription	Sample Type	Le Type Traffic Report			
<i>‡</i> 09	Thornton	Spring	Inorganic & Blank	MC - 8115	Anetec Labs		
		- e ⁻¹					
#09	Thornton	Spring	Extractable Organics Volatile Organics	C - 0340	Energy Resources Co.		
			Extractable Organic & Volatile Organic Blanks	C - 0347	Energy Resources Co.		
		1					
#09	Thornton	Spring	Water (Kepone & Mirex)	N/A	NEIC		
# 09	Thornton		Surface Sediment (Kepone & Mirex)	N/A	NEIC		



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI Sample Management Office POBY 18 AM AND TO THE STORY PROTECTION AGENCY HWI SAMPLE PROTECTION AGENCY HWI SAMPLE PROTECTION AGENCY HWI SAMPLE PROTECTION AGENCY HWI SAMPLE PROTECTION AGENCY HIS STORY PROTECTION AGENCY HAVE PROTECTION A



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REGIONAL OFFICE FILE COPY





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7 Description of Sample Location:

8 Special Handling Instructions:

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



U.S. ENVIRONMENTAL PROTECTION AGENCY HWI Sample Management Office POB128 8, Alexandra, V. 19313 703 557 2430 TTS 557 2490 ORGANICS TRAFFIC REPORT



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8 Special Handling Instructions:

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

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ned by: (Signature) ned by: (Signature) ed by: (Signature) 12.10 8 PATE PROJECT NAM 1245 TIME 1445 COMP nt Original Accompanies Shipment; Copy to Coordinator Field Fil Received for Laboratory by: Relinquished by: (Signature) Relinquished by: (Signature). Date /Time مسهو ز ۲ ** 三年 一年 一年 1000 1 re. Remarks Shipped VIA * Ž. ** - The state of the ST. 化 * Date / Date / Time Time Fed. Received by: (Signature) Received by: (Signature) Curtis Bldg., 6th & Walnut Sts. REMARKS Sxpress

Trice of Enforcement

REGION 3

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SAMPLE RECEIPT

On Dec. 10, 1980, 1980, Ecology & Environment, Inc., representative
GARTH GLENN received permission from ELIZABITH JODON
to remove material from his/her property, contained in <u>SEVEN</u> (7)
1-quart glass organic sample bottle(s), \(\frac{7\var}{2} \) 40 ml glass volatile organic
sample bottle(s), $ove(i)$ 8 oz. glass hazardous sample jar(s) and $ove(i)$
inorganic 1-quart polyethylene sample bottle(s).

203 PIKE STREET.

Ecology & Environment, Inc., Representative Signature & Date

ORIGINAL (Red) STRUBLE Surface Trace ABANDONED SPRAY FIELD ABANDONED JAMISITE LAGOON Not to Scole THORNTON SPRING ORING CACES Figure 1 LOCATION MAP 3 - 21 - 79 5288-4 SAMPLING SITES TDD F3 8011-09





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