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Case Name: NOCKAMIXON TOWNSHIP ROUTE 563 CERCLA SITE PA RPT MARCH 1989

Year: 1989

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pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
841 Chestnut Building
Philadelphia, Pennsylvania 19107

APR 10 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Art Dalla Piazza
PA Department of Environmental Resources
7th Floor, Fulton Building
P.O. Box 2063
Harrisburg, PA 17120

Septa Roberts AVE	PA 2251	PA
Nockamixon Township	PA 2483	PA
Vandor Company	PA 2193	PA
Kulpsville Quarry	PA 2234	SI
Purex Corp. - Fels Plant	PA 636	RECON

Dear Mr. Dalla Piazza:

We are forwarding to you copies of the final reports for the above referenced projects. If there are any questions concerning these reports, please call me at 215/597-1073. Thank you.

Sincerely,

Paul Racette

Paul Racette
Site Investigation Section

Enclosure

cc: George Danyliw, PA DER, Norristown, (w/enclosure)

R-585-11-8-75

PRELIMINARY ASSESSMENT OF NOCKAMIXON TOWNSHIP - ROUTE 563 PREPARED UNDER

TDD NO. F3-8810-11
EPA NO. PA-2483
CONTRACT NO. 68-01-7346

FOR THE

HAZARDOUS SITE CONTROL DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MARCH 22, 1989

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY	REVIEWED BY	APPROVED BY
RUTH MANNING PROJECT MANAGER	MICHAEL SNYDER SECTION SUPERVISOR	GARTH GLENN REGIONAL OPERATIONS MANAGER, FIT 3

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SECTION 1

1.0 INTRODUCTION

1.1 Authorization

NUS Corporation performed this work under Environmental Protection Agency Contract No. 68-01-7346. This specific report was prepared in accordance with Technical Directive Document No. F3-8810-11 for the Nockamixon Township - Route 563 site located in Bucks County, Pennsylvania.

1.2 Scope of Work

NUS FIT 3 was tasked to conduct a preliminary assessment of the subject site.

1.3 Summary

The Nockamixon Township - Route 563 site is located in Ottsville, Nockamixon Township, Bucks County, Pennsylvania. The 1-acre site is an inactive, former drum storage area for an estimated 50 drums.

The site is currently owned by Roxanne Schulburger-Miller, who inherited the property from her father, William Schulburger, when he died in the early 1980s. The site was originally used for farming. In the 1970s, Mr. Schulburger pumped out septic tanks and disposed the waste on site and created a dump site for garbage. In January 1980, the Pennsylvania Department of Environmental Resources (PA DER) supervised a cleanup and drum removal of approximately 50 drums at the site; however, PA DER file information for the site could not be located. Gary Bonner, of PA DER, has indicated to FIT that no sampling was conducted by PA DER in conjunction with the cleanup.

The Bucks County Health Department (BCHD) collected 1 soil sample from the area where the drums had been and 11 home well samples near the site. Four of the home well samples and the soil sample contained high amounts of trichloroethene (TCE). BCHD recommended that the persons utilizing home wells with high amounts of TCE should do one of the following: drink bottled water, install an activated carbon filter unit, or boil water for 5 to 10 minutes. No other remedial action has been taken at the site.

The site is currently not in use and is being left to develop natural growth. During the site visit, NUS FIT 3 noticed no stressed vegetation, and all drums had been removed. The site is being used by hunters, and according to neighbors (Miller and Kasenia) of the site, people have been dumping septic tank sewage in the area.

The site and the surrounding three-mile radius rely on groundwater for potable purposes. There is no municipal water supply in the area.

SECTION 2

2.0 THE SITE

2.1 Location

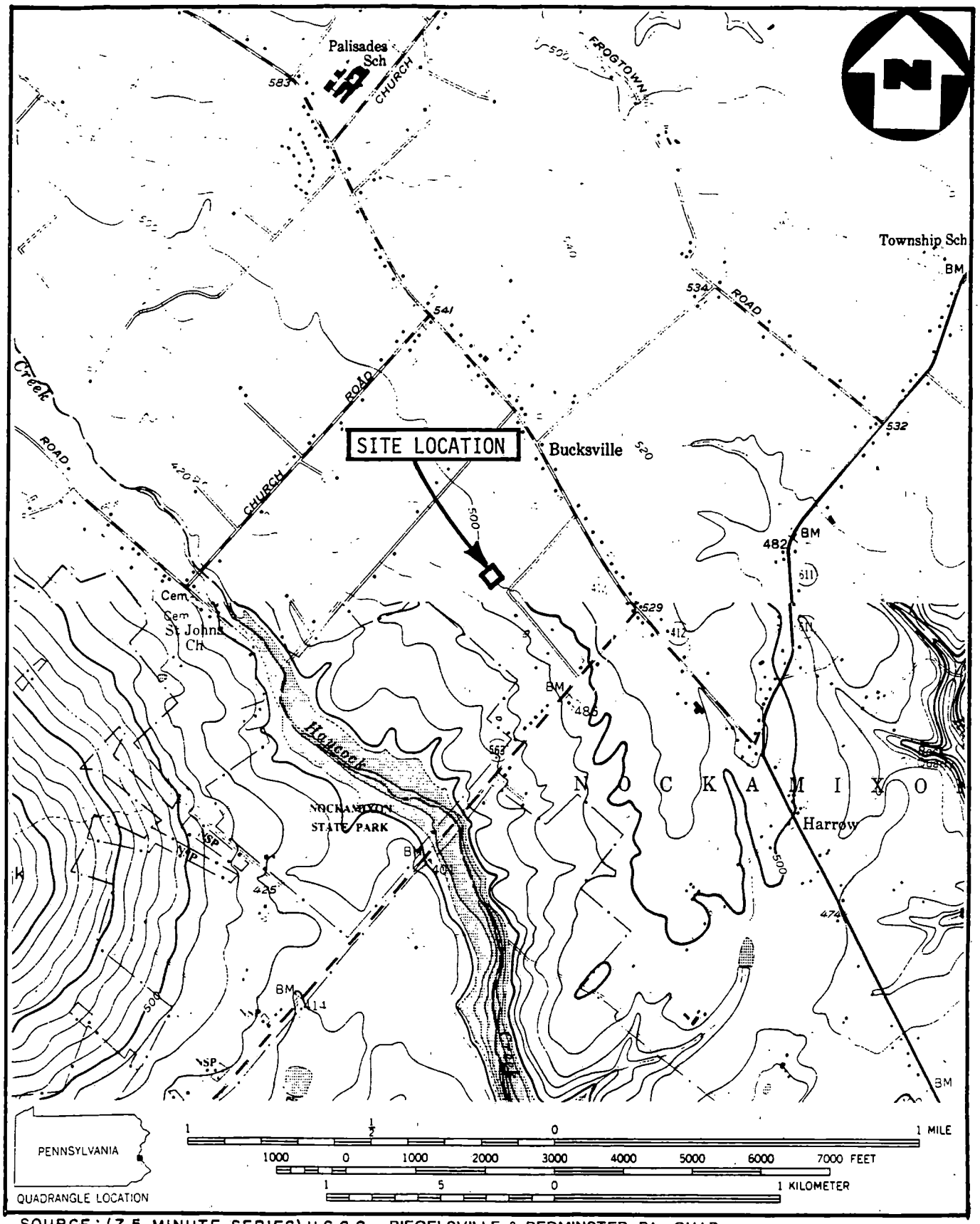
The Nockamixon Township - Route 563 site is located at the intersection of Routes 563 and 412 on the corner of a dirt road that connects both routes, in Ottsville, Nockamixon Township, Bucks County, Pennsylvania (see figure 2.1, page 2-2). The site is located on the United States Geological Survey (U.S.G.S.) Riegelsville, Pennsylvania quadrangle, with coordinates at 75° 11' 30" longitude and 40° 30' 00" latitude. In relation to the southeastern corner of the Riegelsville, Pennsylvania quadrangle, the site is 1/8 inch north and nine inches west.[1]

2.2 Site Layout

The 1-acre site is located in the middle of a 10-acre lot that consists of a wooded area. Access to the site is not restricted. A dirt path runs through the property of Melissa Marie Schulburger, adjacent to the site, to Roxanne Schulburger-Miller's property. The site is located south of the dirt road on Roxanne Schulburger-Miller's property. The former drum storage area is located between a scrap metal pile, which was originally a dump site for garbage in the 1970s (the scrap metal pile is approximately 100 yards northeast of the site), and a wood-cutting area, which is located approximately 100 yards northwest of the site. Septic tank sewage was also disposed at the former drum storage area and areas adjacent to this site. The boundaries of the sewage disposal are unknown. Adjacent to the property, the FIT observed seven drums. No buildings were observed on site (see figure 2.2, page 2-3). The property adjacent to the site contained an old foundation that consisted of 3 walls of stones and a floor of an old building located approximately 175 yards east of the former drum storage area. On the floor of the old foundation were approximately three empty rusted drums.[2]

2.3 Ownership History

The site is currently owned by Roxanne M. Schulburger-Miller, of Hellertown, Pennsylvania. Roxanne Schulburger-Miller inherited the land in the early 1980s from her father, William Schulburger. The site was originally part of the Schulburger Estate, which consisted of approximately 76 acres and was purchased in 1968 by William Schulburger.[3]



SOURCE: (7.5 MINUTE SERIES) U.S.G.S. RIEGELSVILLE & BEDMINSTER, PA., QUAD.

FIGURE 2.1

SITE LOCATION MAP

NOCKAMIXON TOWNSHIP - ROUTE #563

SCALE 1:24000

NUS CORPORATION

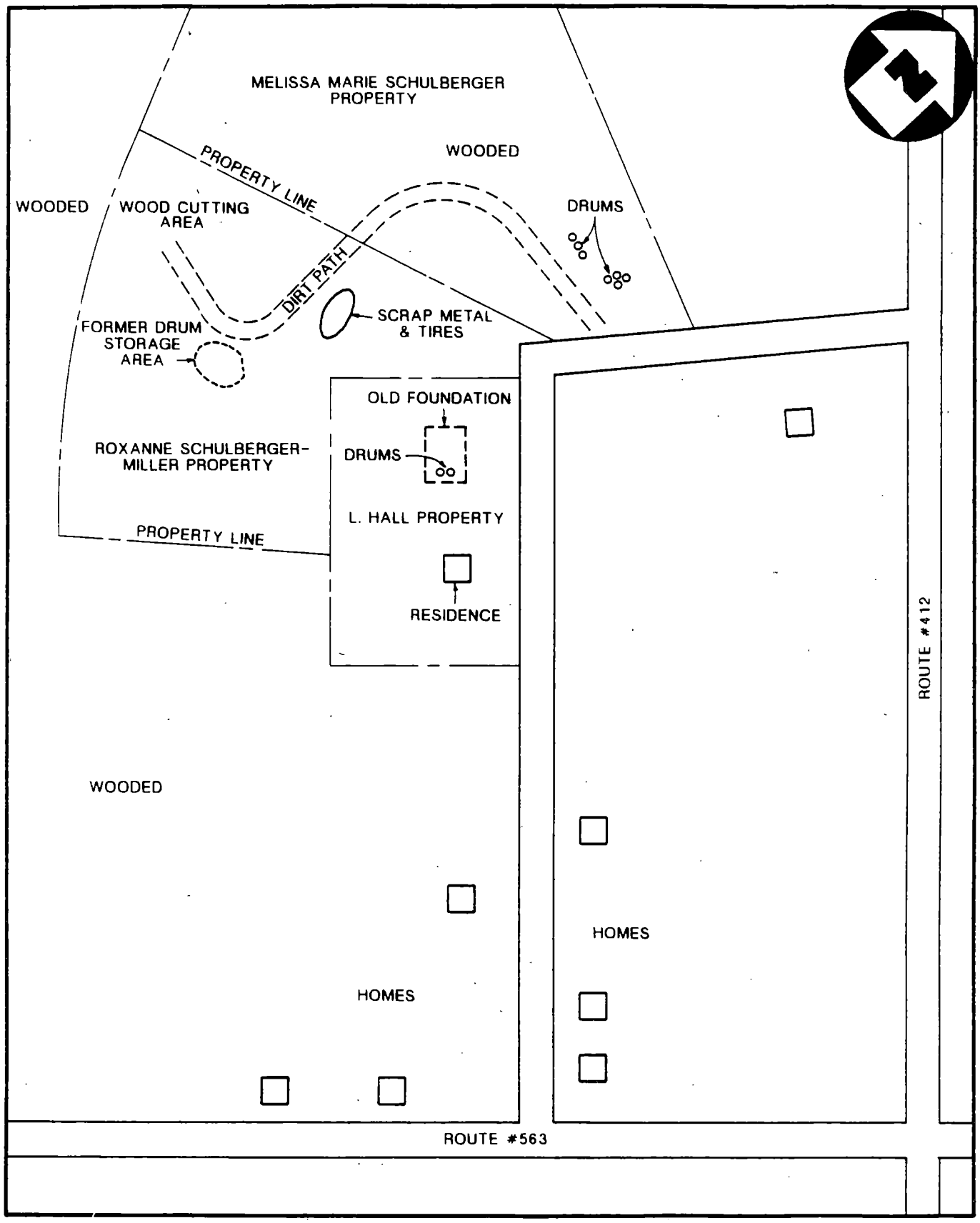


FIGURE 2.2

SITE SKETCH

NOCKAMIXON TOWNSHIP - ROUTE #563

(NO SCALE)

NUS CORPORATION

2.4 Site Use History

The site was originally used as farm land when it was part of the Schulburger Estate. In the 1970s, according to Roxanne Schulburger-Miller, her father pumped out septic tanks on the site and created a dump site for garbage. The dump site was cleaned up in the early 1980s, and the land was returned to a wooded area. The site is currently used by hunters. Neighbors of the site have informed NUS FIT 3 that illegal septic tank dumping is still occurring in the area.[3,4]

2.5 Permit and Regulatory Action History

The site was used as a drum storage area for several years in the 1970s. In January 1980, PA DER supervised a drum removal and cleanup of the site. According to BCHD, Gary Bonner, of PA DER, stated that approximately 50 barrels were lying in 2 piles on site. There were indications that many of the barrels had leaked. Mr. Bonner has indicated to FIT that no sampling was conducted by PA DER in conjunction with the cleanup. No known permits have been issued for this site.[5]

BCHD received a complaint in February 1981 from Larry Hall, who owns property adjacent to the site, informing them of high amounts of TCE in his home well. BCHD sampled several home wells in the area and collected one soil sample from the area where the drums had been. Twelve samples were taken. Four of the home well samples revealed concentrations of TCE between 110 and 150 ppb (see figure 2.3, page 2-5). The one soil sample taken contained 79 ppb of 1,1,1-trichloroethane (1,1,1-TCEA), 260 ppb TCE, and 210 ppm tetrachloroethylene (PCE) (see appendix A for sample results).[5]

BCHD gave the sample results to all of the residents whose home wells had been sampled, along with a letter of recommendation in an effort to reduce exposure to TCE. BCHD recommended, for those whose sample result was above 75 ppb of TCE, that one of the following should be done: drink bottled water, install a line bypass activated carbon home treatment unit, or boil the water for 5 to 10 minutes (a copy of this letter appears in appendix A).[5]

No other regulatory action or known samples have been taken on this site.

2.6 Remedial Action to Date

According to BCHD file information, in January 1980, PA DER supervised a drum removal and cleanup of the site. A file search was conducted in the Norristown PA DER office, but NUS FIT 3 was unable to locate the file containing the details of this drum removal.[5]

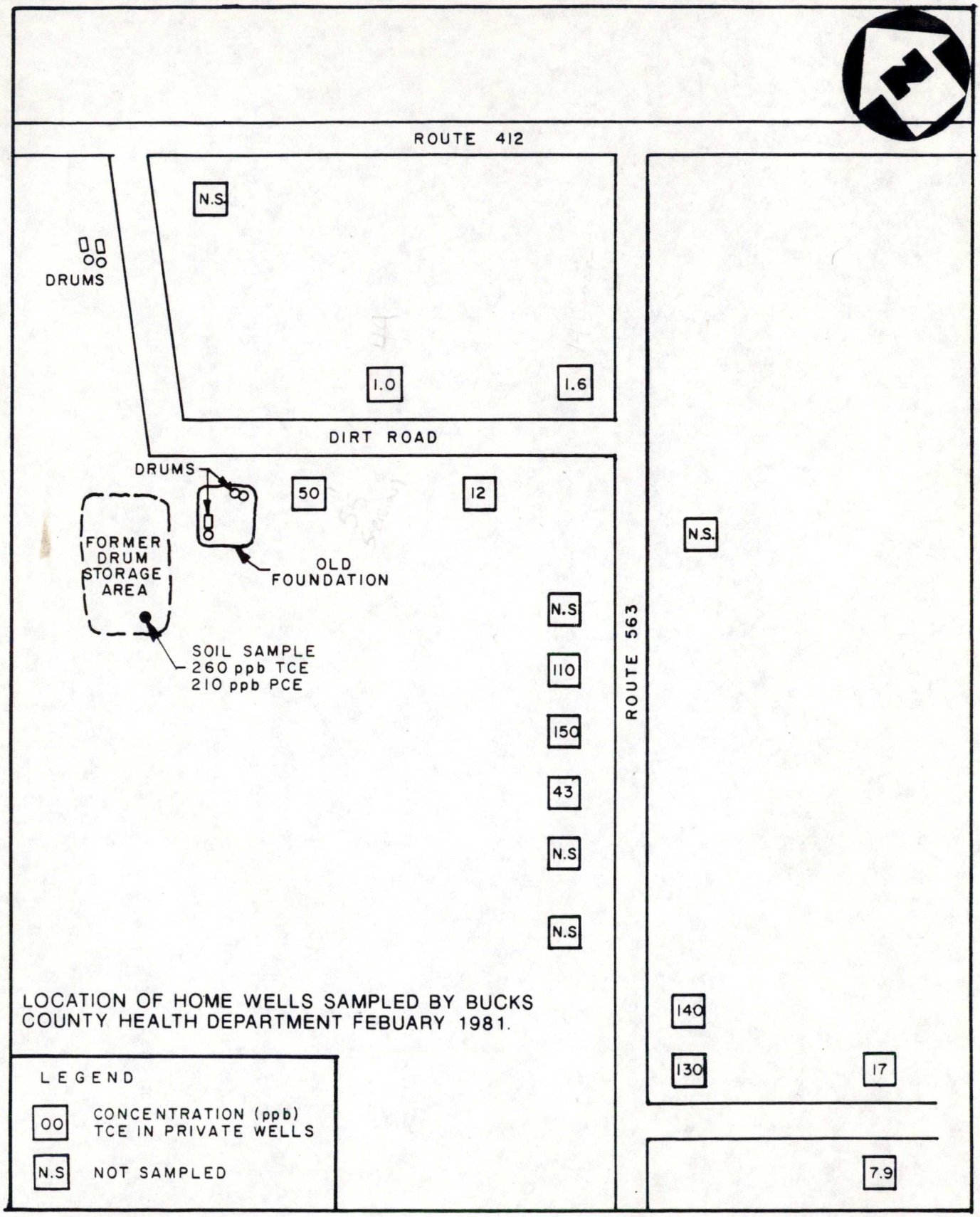


FIGURE 2.3

NOCKAMIXON TOWNSHIP - ROUTE #563

BUCKS CO. SITE DISCOVERY, BUCKS CO., PA.

NO SCALE

NUS CORPORATION

A Halliburton Company

SECTION 3

3.0 ENVIRONMENTAL SETTING

3.1 Water Supply

Water is supplied in the area of the site by groundwater. All residents within the three-mile radius of the site rely on private groundwater wells for potable purposes. There are 3 residential homes located within 1,000 feet of the site. The total population within the 3-mile radius of the site is approximately 3,172 people. One home well located 900 feet southeast of the site had a reported well depth of 240 feet.[6]

3.2 Surface Waters

All surface water from the site runs off in a dendritic drainage pattern. Runoff would migrate southwestwardly and eventually enter Haycock Creek, located approximately 3/4 mile southwest of the site. Haycock Creek flows southwardly for approximately two stream miles until it merges with Tohickon Creek. A reservoir is located where Haycock Creek and Tohickon Creek merge. All creeks are perennial. Tohickon Creek is on the state-wide list for cold-water fisheries. The only known uses of Haycock Creek and Tohickon Creek are recreational uses. The reservoir is used for boating and fishing.[1,7] There are no wetlands within three miles of the site.

3.3 Hydrogeology

The geologic and hydrogeologic conditions in the study area were researched as part of the site investigation. A preliminary literature review was conducted to determine surface and subsurface geologic conditions, soil character, and the status of groundwater transport and storage.

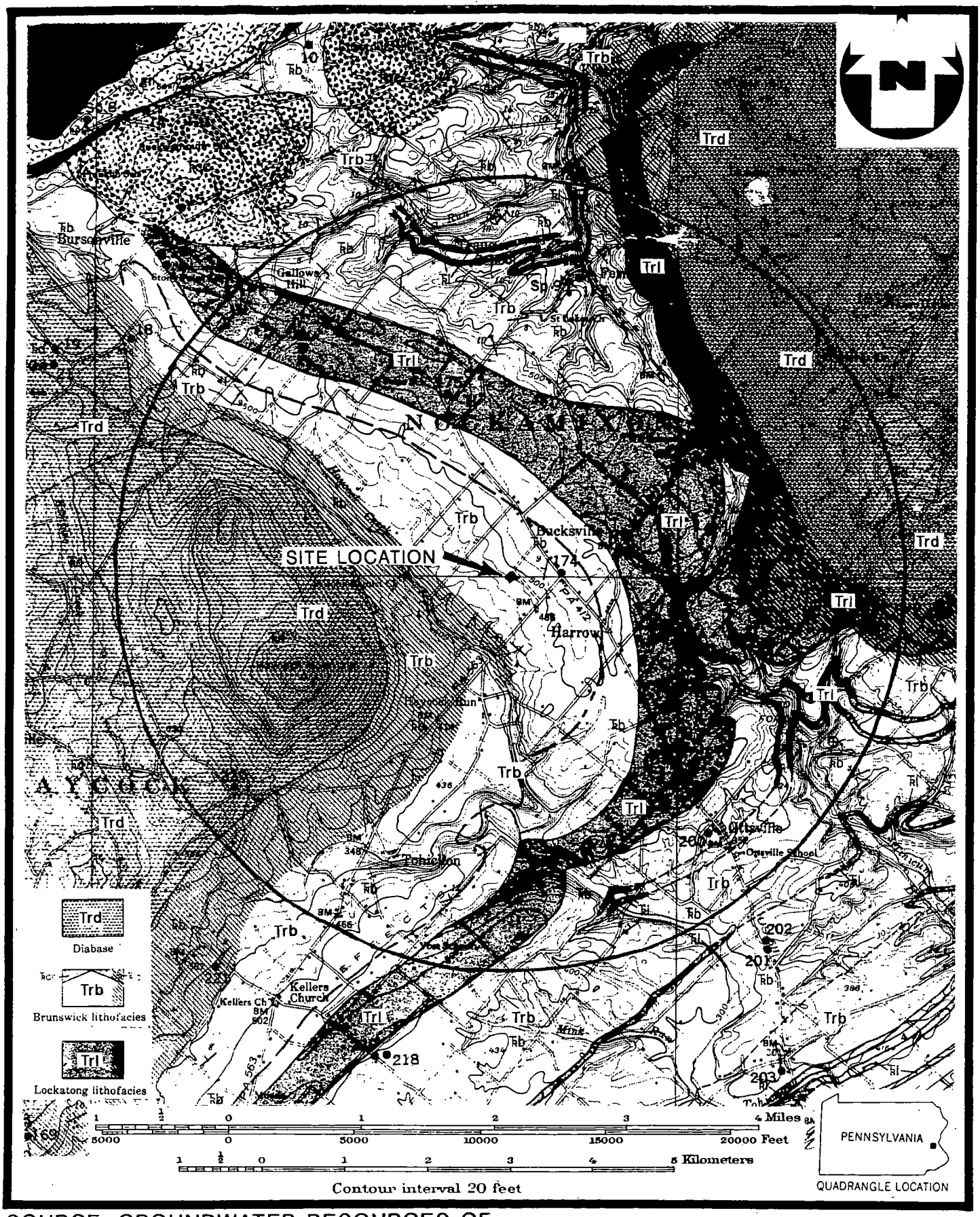
3.3.1 Geology

The Nockamixon Township - Route 563 site lies within the Triassic Lowlands Sections of the Piedmont Physiographic Province.[6] The rocks of the Triassic Lowlands are more commonly known as the Newark Group, a 16,000- to 20,000-foot section of nonmarine sedimentary rocks and associated intrusive and extrusive basic rocks.[8] The Newark Group was deposited in the Newark Basin, which was part of a fracture system initiated by the widening of the Atlantic Basin and separation of the continents in Mesozoic time.[8,9] The shape and extent of the original depositional basin were very similar to the present form of the outcrop belt and closely follow the regional grain of Appalachian structures (30 to 50 degrees northeast).[8] Continuous downfaulting along the northwestern border has produced a regional 5 to 20 degree northwestward dip.[8,10] The outcrop belt is broadest in Bucks County, where it attains a width of 32 miles. The site area has a dendritic drainage pattern.[10]

The site is underlain by the Triassic age Brunswick Formation (see figure 3.1, page 3-3). The Brunswick consists of a monotonous succession of reddish-brown mudstone and siltstone with local beds of claystone and fine-grained sandstone. The formation also contains abundant dinosaur footprints along with bony fish, reptilian, and plant fossils. These fossils suggest a broad mudflat paleoenvironment with wandering watercourses and weak external drainage. The thickness of the Brunswick Formation is approximately 6,000 feet.[8]

Underlying and interfingering with the Brunswick Formation and cropping out in narrow bands throughout the study area is the Triassic age Lockatong Formation.[8,10] The Lockatong Formation is composed of alternating detrital and chemical sediments. The detrital sediments consist of shales succeeded by platy, dark, carbonate-rich mud and argillite with occasional ripple-bedded siltstone and sandstone. The chemical sediments consist of dark gray-black dolomitic mudstones succeeded by gray carbonate-rich argillite. Fossil content of the formation includes fish, labyrinthodent amphibians, freshwater ostracods, and mollusks. These fossils, in addition to the cyclic detrital and chemical sediments, suggest a lacustrine paleoenvironment for the Lockatong. Given the unique depositional environment of the Lockatong Formation, its thickness varies widely.[8] The formation is about 3,750 feet thick at the confluence of the Delaware River and Tohickon Creek (7.5 miles southeast of the site).[10]

Bands of the Brunswick and Lockatong Formations have been extensively intruded by igneous diabase dikes/sills and, as a result, shale near the intrusive bodies has been altered to hard, dark-colored hornfels. The apparent width of the altered zone ranges from a few feet to a mile in outcrop but probably never exceeds a few hundred feet in thickness.[10]



SOURCE: GROUNDWATER RESOURCES OF BUCKS COUNTY, PENNSYLVANIA

FIGURE 3-1

GEOLOGIC MAP

NUS CORPORATION

ROUTE 563 DRUM STORAGE SITE

Cropping out 2.2 miles northeast and 1.1 miles southwest of the site is Triassic age diabase, commonly known as traprock.[10] These discordant sheets and cross-cutting dikes of diabase intruded the Newark Group throughout late Triassic time; therefore, their stratigraphic position varies throughout the study area.[8] The rock is dark gray to black, dense, and very fine grained and consists of 90 to 95 percent labradorite and augite.[10,11] The dikes are generally 5 to 100 feet thick, while the sheets are much thicker.[11]

3.3.2 Soils

The site is underlain by a Reaville Series soil. The soil is a moderately deep, moderately well-drained to somewhat poorly drained shaly silt loam that formed in loamy material weathered from red and brown shale. A representative profile consists of a top 6 inches of a dark reddish-brown shaly silt loam, 6 inches of a reddish-brown shaly heavy silt loam, 10 inches of a reddish-brown very shaly silt loam, and 4 inches of a reddish-brown very shaly silt loam. The soil has a slow permeability, a low available water capacity, and a strongly acid pH (4.5 to 5.0).[12]

3.3.3 Groundwater

The Brunswick Formation is the aquifer underlying the site. The Brunswick has a moderate to low permeability and a moderate secondary porosity due to vertical joints and bedding-plane fractures.[11] The Brunswick is an important source of water for domestic, industrial, and public supply in Bucks County. The reported yields of 52 wells for which records are available range from 2 to 250 gallons per minute (gpm) and average 40 gpm.[10] It is likely that the Brunswick is hydraulically interconnected with the other formations in the study area via fracture and joint openings.

The direction of shallow groundwater flow is to the southwest toward Haycock Creek. Flow direction is based upon topographical observations and the role of creeks as discharge points for groundwater.

3.4 Climate and Meteorology

The area where the site is located has an average mean temperature of 54.6°F, with an average mean minimum temperature of 46.2°F and an average mean maximum temperature of 62.9°F. The annual precipitation in the area is 41.38 inches per year. The annual evapotranspiration in the area is 32 inches per year. The total net precipitation, determined by subtracting the mean annual evaporation from the mean annual precipitation, is 9.38 inches. The 1-year, 24-hour rainfall for this area is 2.75 inches.[13,14,15]

3.5 Land Use

The site is located between Route 412 and 563 in a rural, wooded area in Nockamixon Township. Residential homes are located approximately 500 feet south of the site and 800 feet east of the site. Located north and west of the site is a wooded area. One mile west of the site is Haycock Mountain, part of State Game Land Parcel No. 157. Overall, the area surrounding the site is mostly wooded or farmland with scattered residential homes. No major industry has been identified in the area.[1]

There are two other sites located within the study area that are being addressed under CERCLA. Revere Chemical Company (EPA No. PA-1015) is located less than one mile northeast. Penn Rare Metals (EPA No. PA-1216) is located two miles northeast of the site.[16,17]

Revere Chemical Company was previously operated as a metals recovery facility and stored metals and acid-containing wastes on site in unlined, earthen lagoons. Some wastes (piles, drums) are still reportedly on site. Concern is for groundwater contamination. Court action closed the facility in 1970. The site has been inactive since its closing.[16]

Penn Rare Metals is the location of a former pilot plant. The plant, also known as Echo Chemical Compay, used a process to precipitate copper from etching wastes generated from the electronics industry. In late 1964, Echo Chemical abandoned the plant and relocated elsewhere in Bucks County.[17]

3.6 Population Distribution

The site is located in a rural area. There are approximately 585 persons within a 1-mile radius of the site. Within a 2-mile radius, there are approximately 904 persons. The 3-mile radius includes approximately 1,683 persons. The total population within the 1-, 2- and 3-mile radii is 3,172 people.[1]

3.7 Critical Environments

Two federally listed endangered birds are expected to be found as transient species in the project area. They are the bald eagle (Haliaeetus leucocephalus) and the peregrine falcon (Falco peregrinus). There is no listed critical habitat for these species in the project area.[18] There are no wetland areas within a three-mile radius of the site.

SECTION 4

4.0 WASTE TYPES AND QUANTITIES

BCHD file information indicates that the drum storage site contained approximately 50 drums in 2 piles. There were indications that many of the drums had leaked. According to BCHD, PA DER supervised a drum removal and cleanup in January 1980. Sample analysis taken by BCHD revealed concentrations of TCE and PCE in the soil where the drums had been. Several home wells in the area contained concentrations of TCE (see appendix A for laboratory results).[3] A file search was conducted in the Norristown PA DER office, but NUS FIT 3 was unable to locate the file for the site. It is not known what the drums contained or to where the drums were removed.

SECTION 5

5.0 FIELD TRIP REPORT

5.1 Summary

On November 1, 1988, NUS FIT 3 personnel Ruth Manning and Claire Olsovsky performed a preliminary assessment of the Nockamixon Township - Route 563 site in Nockamixon Township. Access to the site and permission to take photographs were granted by Roxanne Schulburger-Miller, the current site owner. The weather conditions during the site visit were cool, with a steady rain. Temperatures were in the low 50s. Photographs were taken at the site (see figure 5.2, page 5-5, and the photograph log, section 5.4).

5.2 Persons Contacted

5.2.1 Prior to Field Trip

Roxanne Schulburger-Miller
Site Owner
10 West Water Street
Hellertown, PA 18055
(215) 838-6472

Robert Allen
PA DER
1875 New Hope Street
Norristown, PA 19401
(215) 270-1948

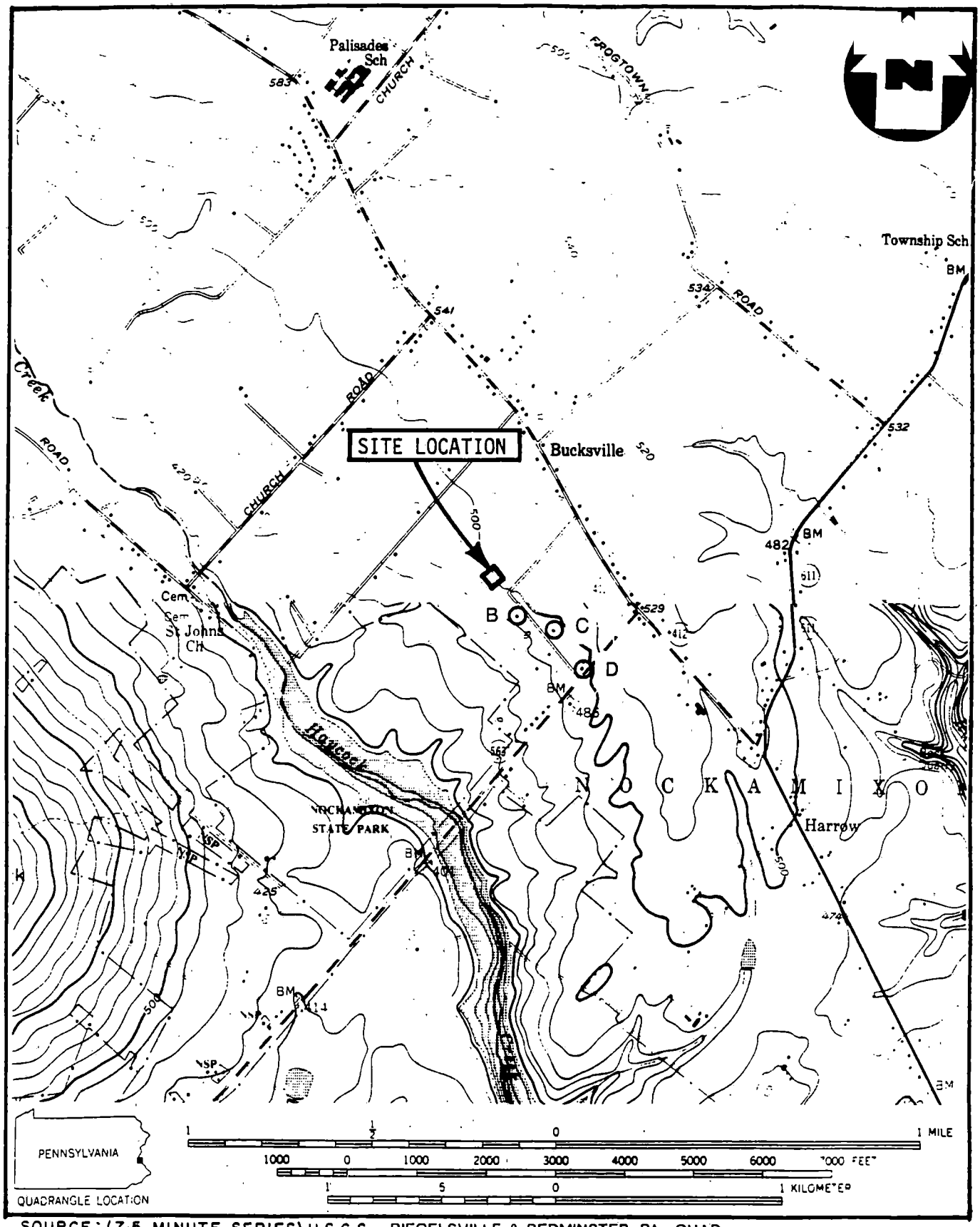
Paul Racette
U.S. EPA
841 Chestnut Building
Ninth and Chestnut Streets
Philadelphia, PA 19107
(215) 597-1073

5.2.2 At the Site

Roxanne Schulburger-Miller
Site owner
10 West Water Street
Hellertown, PA 18055
(215) 838-6472

5.2.3 Water Supply Well Information

Home well surveys were distributed to five residents surrounding the site. Three surveys have been returned (see appendix B). For the locations of these wells, see figure 5.1 (page 5-3). One survey was completed by Gimone Hall, the owner of the home well located approximately 500 feet south of the site. The well depth was unknown, and owner uses carbon filters and a water purifier before using the well for potable purposes. Another survey was completed by the Millers, the owners of the home well located approximately 900 feet southeast of the site. This well was reportedly 240 feet deep. The Millers use water softeners and indicated they have no current problems with water supply or with taste, color, or odor. The third survey was completed by Mrs. Kasenia, who is currently renting a house located 1,600 feet southeast of the site. The depth of Mrs. Kasenia's well is unknown. Mrs. Kasenia stated that she had problems with low pressure from her well and, in rainy weather, the water seemed to have a gravelly texture. All homes in the three-mile radius use home wells for potable purposes.[6]



SOURCE: (7.5 MINUTE SERIES) U.S.G.S. RIEGELSVILLE & BEDMINSTER, PA., QUAD

HOME WELL SURVEY MAP

NOCKAMIXON TOWNSHIP - ROUTE #563

SCALE 1:24000

FIGURE 5.1

NUS CORPORATION

5.3 Site Observations

- The mini-alert was set on the X1 position; no readings were recorded above background.
- The HNU background reading was 0.2 ppm; no readings were recorded above background.
- No stressed vegetation was observed.
- No drums were observed on site.
- A pile of scrap metal and tires was located next to the site.
- Seven drums were observed on the property adjacent to the site.
- No leachate seeps were observed.
- A wood-cutting area was located next to the site.
- No stained soil was observed.
- The site was easily accessible. There were no restrictions to vehicular or pedestrian traffic.
- The site was located in wooded lot area.

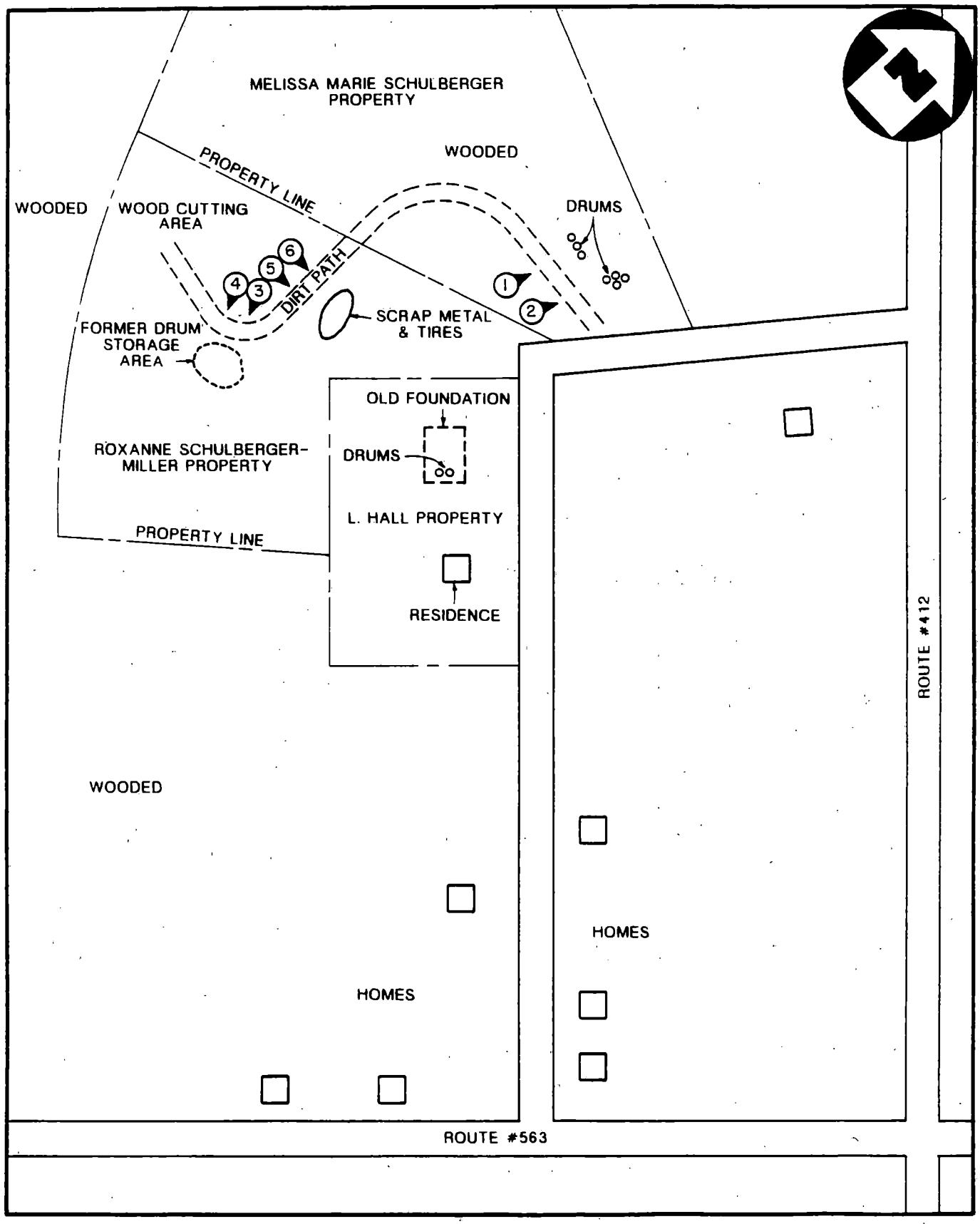


FIGURE 5.2

PHOTO LOCATION MAP

NOCKAMIXON TOWNSHIP - ROUTE #563

(NO SCALE)

NUS CORPORATION

Photograph Log 5.4

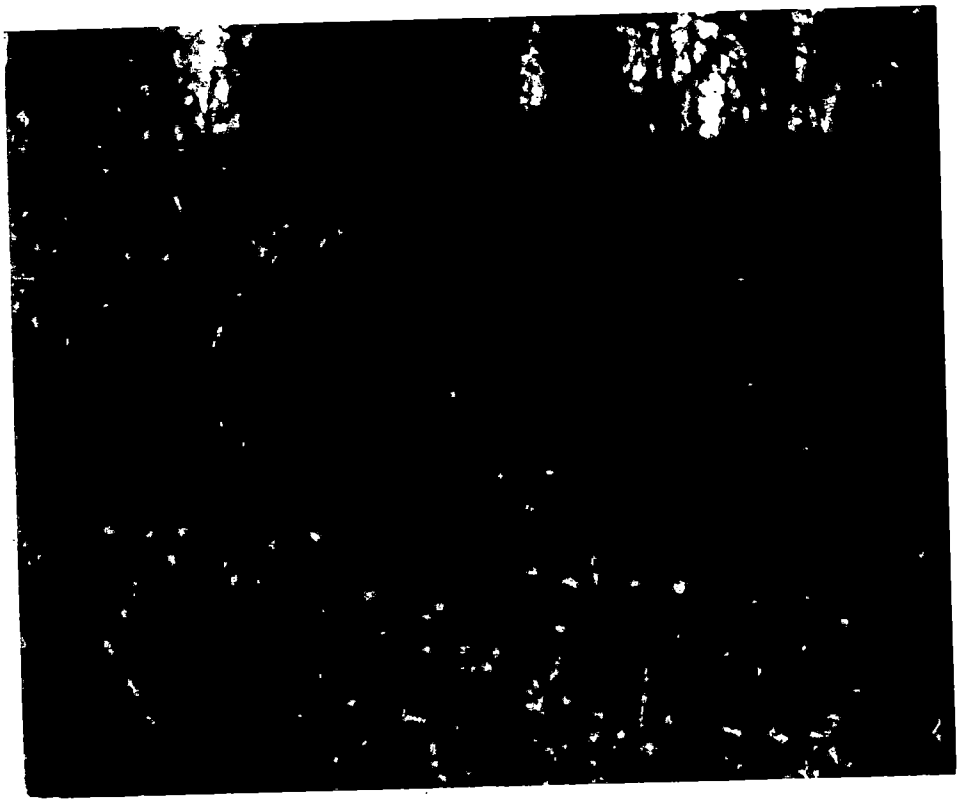


PHOTO #1 - Three upright drums on adjacent property to the site

PHOTO #2 - Several tilted drums on the adjacent property to the site

Route 563 + 412 Drum Storage
F3-8810-11
PA-2111

R, P,
Photo 1

THREE UPRIGHT DRUMS ON
ADJACENT PROPERTY TO SITE

Ruth Manning
RUTH MANNING

1305
11/1/88

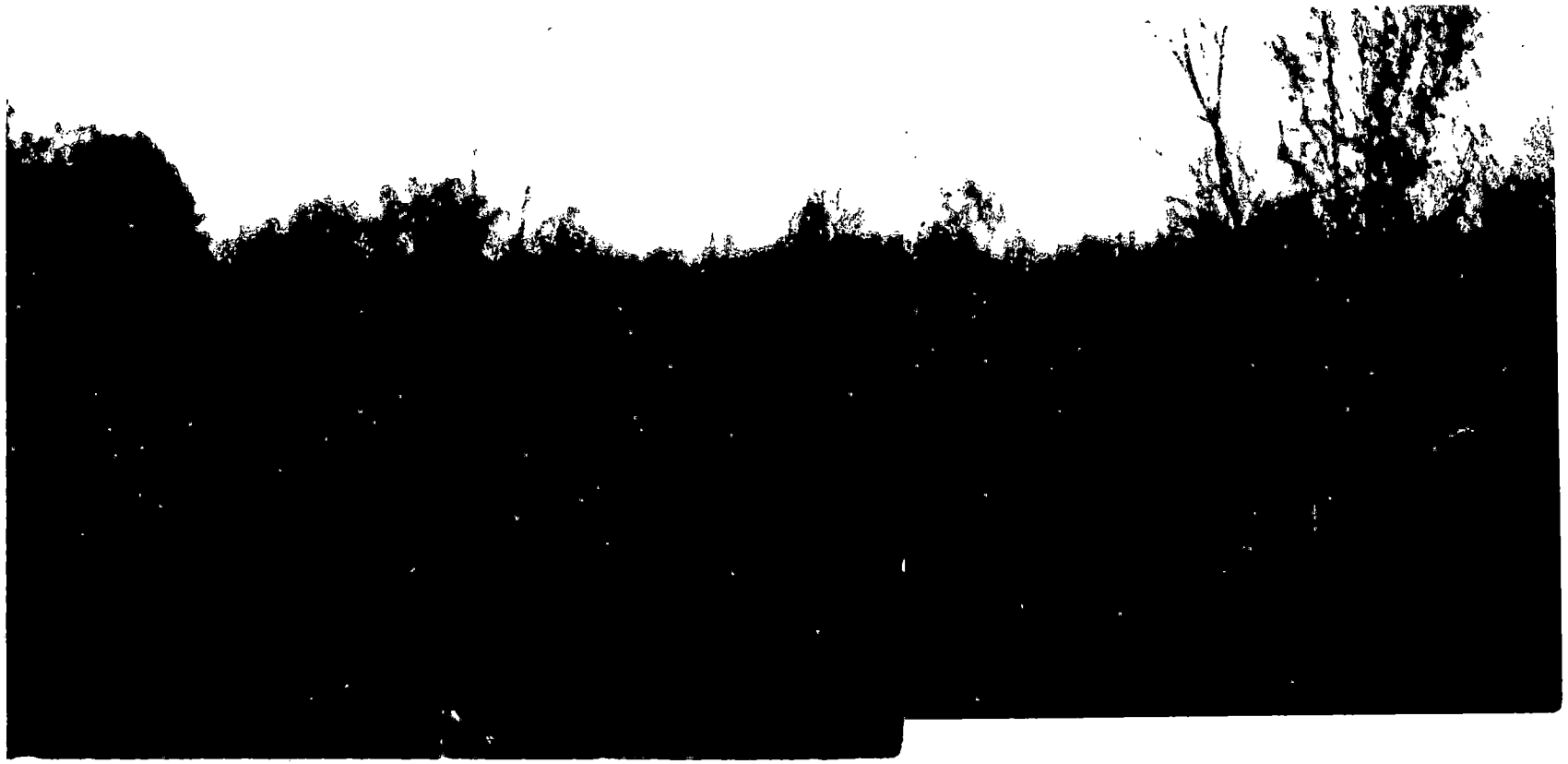
Route 563 + 412 Drum Storage
F3-8810-11
PA-2111

R, P2
Photo 2

SEVERAL TILTED DRUMS ON
ADJACENT PROPERTY TO SITE

Ruth Manning
RUTH MANNING

1306
11/1/88



PHOTOS #3,4 - Panaramic view of the site

Route 563 & 412 DRUM STORAGE
F3-8810-11
PA-2111

PAN OF SITE

Ruth Manning
Ruth MANNING

R1 P3
photo 3

DRUM STORAGE

1309
11/1/88
Ruth MANNING

R1 P4
photo 4

PAN OF SITE

1309
11/1/88

PHOTO #5 - Scrap metal pile near the site

PHOTO #6 - Tires and scrap metal near the site

Route 563 + 412. DRUM STORAGE
F3-8810-11
PA - 2111

R, P5
photo 5

SCRAP METAL PILE NEAR SITE

Ruth Manning
RUTH MANNING

1315
11/1/88

Route 563 + 412 DRUM STORAGE
F3-8810-11.
PA 2111

R, P7
Photo 6

TIRES + SCRAP METAL NEAR SITE

Ruth Manning
RUTH MANNING

1317
11/1/88

F3-8810-11

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
PA	2483

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Nockamixon Township Route 563	Located on a dirt road that connects Routes 412 and 563

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Ottsville	PA		Bucks	017	

09 COORDINATES LATITUDE	LONGITUDE
40° 30' 00" N	75° 11' 30" N

10 DIRECTIONS TO SITE (Starting from nearest public road)
Take Route 611 north to Route 412 north, then take Route 563 south. Turn right at the first dirt road; follow the dirt road to the corner. The site is located at the corner of the dirt road.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Roxanne Schulburger-Miller	10 West Water Street

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Hellertown	PA	18055	(215) 838-6472

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 11/1/88 (MONTH DAY YEAR)
☐ NO

BY (Check all that apply)
☒ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): NUS Corporation, FIT 3

02 SITE STATUS (Check one)
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
Early 1970s (BEGINNING YEAR) | 1980 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
The site contained approximately 50 drums. The drums were removed in 1980. It is not known what the drums contained. A soil sample taken on site in 1981 contained concentrations of TCE and PCE.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
The Bucks County Health Department collected home well samples in the area. Concentrations of TCE and PCE were found in seven home well samples in the area near the site.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Paul Racette	U.S EPA	(215) 597-1073

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Ruth Manning	NUS Corp.	FIT 3	(215) 687-9510	11/29/88 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
PA	2483

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- _ A SOLID
- _ B POWDER, FINES
- _ C SLUDGE
- _ D OTHER _____ (Specify)
- _ E SLURRY
- X F LIQUID
- _ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS _____

CUBIC YARDS _____

NO OF DRUMS 50

03 WASTE CHARACTERISTICS (Check all that apply)

- X A TOXIC
- _ B. CORROSIVE
- _ C RADIOACTIVE
- X D PERSISTENT
- X E SOLUBLE
- _ F INFECTIOUS
- _ G. FLAMMABLE
- _ H IGNITABLE
- X I HIGHLY VOLATILE
- _ J. EXPLOSIVE
- _ K REACTIVE
- _ L. INCOMPATIBLE
- _ M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			Concentrations of PCE and TCE were found
OLW	OILY WASTE			in soil samples on site and in home well
SOL	SOLVENTS			samples surrounding the site.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	trichloroethene	79-01-6	unknown	260 ppb	
SOL	tetrachloroethylene	127-18-4	unknown	210 ppb	

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Bucks County Health Department Report and Sample results, David Null, 1981.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
PA	2483

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,170 — 04 NARRATIVE DESCRIPTION
Home well samples from the area of the site contained concentrations of TCE of 110 to 150 ppb. Groundwater is used exclusively for potable purposes. There are no municipal water supplies in the area. A population count of the area estimated 3,170 residents living within 3 miles of the site.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
None reported or observed

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
None reported or observed

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
None reported or observed

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
None reported or observed

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: (Acres) — 04 NARRATIVE DESCRIPTION
Soil samples collected by the Bucks County Health Department on site contained concentrations of PCE and TCE. The drums were contained to an area of approximately 1 acre.

01 ☒ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,170 — 04 NARRATIVE DESCRIPTION
There is no municipal water in the area. Home well samples contain concentrations of TCE. A population count of 3,170 people within a 3 mile radius of the site rely on groundwater for potable sources.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION
None reported or observed

01 ☒ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: 3/81) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,170 — 04 NARRATIVE DESCRIPTION
Several home wells have been identified as containing concentrations of TCE, which could potentially have been caused by the site. People within a 3-mile radius of the site rely on groundwater for potable sources.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
PA	2483

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None reported or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3,170 — 04 NARRATIVE DESCRIPTION
When drums were on site, several witnesses saw them leaking onto the soil. Sample results of a soil sample contained concentrations of TCE and PCE. A population count of the area estimated 3,170 residents in the 3-miles of the site.

01 ☐ N DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None reported or observed

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: 3/81) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
According to the Bucks County Health Department approximately 50 drums were stored illegally on this site.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None reported or observed

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NUS FIT 3 Preliminary Assessment, Route 563 & 412 drum storage- TDD No. F3-8810-11. Bucks County Health Department Field Notes, February 1981, and Sample Results.

SECTION 6

6.0 REFERENCES FOR SECTIONS 1.0 THROUGH 5.0

1. United States Geological Survey. Riegelsville, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1956, photorevised 1973. Combined with Bedminster, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1957, photorevised 1983; and Cumberville, Pennsylvania Quadrangle, 7.5 Minute Series. Topographic Map. 1955, photorevised 1973.

2. NUS Corporation, FIT 3. Preliminary assessment; site visit. TDD No. F3-8810-11, November 1, 1988.

3. Schulburger-Miller, Roxanne, Site Owner, with Ruth Manning, NUS FIT 3. Meeting. November 1, 1988.

4. Mr. Miller, Neighbor of Site, with Ruth Manning, NUS FIT 3. Meeting. November 1, 1988.

5. Null, David J., Bucks County Health Department. Water Quality Report. No. 86TI-38-22/30-LA HALL. February 17, 1981.

6. NUS Corporation, FIT 3. Home Well Surveys. November 1, 1988.

7. Pennsylvania Department of Environmental Resources. Title 25 Rules and Regulations, Part 1. Subpart C. Protection of National Resources Article II, Water Resources Chapter 93, Water Quality Standards. October 8, 1979.

8. Subitzky, S., Editor. Late Triassic Newark Group, North Central New Jersey and Adjacent Pennsylvania and New York. Field Trip No. 4. In Geology of Selected Areas in New Jersey and Eastern Pennsylvania and Guidebook of Excursions. New Brunswick, New Jersey: Rutgers University Press, 1969.

9. Spencer, E.W. The Appalachian Orogen. In Introduction to the Structure of the Earth. New York, New York: McGraw Hill, Incorporated, 1977.

10. Pennsylvania Department of Internal Affairs, Topographic and Geologic Survey. Ground Water Resources of Bucks County, Pennsylvania. Bulletin W11, 1955.

11. Pennsylvania Department of Environmental Resources, Bureau of Topographic and Geologic Survey. Engineering Characteristics of the Rocks of Pennsylvania. Environmental Geology Report 1, 1982.

12. United States Department of Agriculture, Soil Conservation Service. Soil Survey of Bucks and Philadelphia Counties, Pennsylvania. July 1975.

13. United States Environmental Protection Agency. Uncontrolled Hazardous Waste Site System. Mean Annual Lake Evaporation Map. 1983.

14. United States Department of Commerce. Rainfall Frequency Atlas of the United States. United States Government Printing Office, Washington D.C. Technical Paper No. 40, 1963.

15. United States Department of Commerce. Climatography of the United States. Local Climatological Data. Annual Summary with Comparative Data, Philadelphia, Pennsylvania. 1983.

16. NUS Corporation, FIT 3. A Hazard Ranking System for Revere Chemical Company. TDD No. F3-8402-01, April 24, 1984.

17. NUS Corporation, FIT 3. Sampling plan. TDD No. F3-8806-11, August 16, 1988.

18. Kulp, Charles J., United States Department of the Interior, Fish and Wildlife Service, to Garth Glenn, NUS FIT 3. Correspondence. December 2, 1988.

APPENDIX A

8611-38-22A

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN, *Chairman*
ELAINE P. ZETTICK
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*
John L. Stover, Jr., *Vice Chairman*
Mrs. Charles Benhayon
Francis L. Rickards, Jr., D.O.
Joseph J. Ryan

September 9, 1981

Mr. Pauline Schulberger
R.D. #1 Box 218 Rt. 563
Ottsville, Pa. 18942

Dear Mrs. Schulberger:

On August 27, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are Trichloroethylene (TCE) 150 parts per billion (ppb), and Perchloroethylene (PCE) 2.2 parts per billion (ppb).

If your sample result is above 75 ppb TCE or 20 ppb PCE, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE or PCE. You may reduce your TCE/PCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb TCE and 20 ppb PCE is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

EPA also indicated that long term (70 years) consumption of 2 liters of water daily containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million. At a level of 35.5 ppb the carcinogenic risk is one in one hundred thousand.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb or the PCE concentration is between 3.55 and 20 ppb, you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes.)

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/dh
cc: Regional Sanitarian Manager
Central Files - DER

2-13.1 -78 FACILITY SAMPLE

[R] STREAM/RANDOM SAMPLE

2 NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 17902

Date Received 8/28/81

BLISHMENT	CASE	FACILITY	COLL NUMBER
Shulberger Residence			121029

NTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp.	WS	D. Noll	0	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11 18	DATE 19-24	TIME 25 28	KIND 29
1 / 2	Cnty Mun Est Case Fac: Not for WAMTS		0	M D Y: 082781	Hr Min: 1220	4

GS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44 57	RELATIVE POINT 58
	284	012029		

CUTARY TO:

L DESCRIPTION WHERE SAMPLE TAKEN: Outside Hose Bibb Rte 563

CUSTODY LOG

w Shipped Date

al Seal No.

eived by:

al Seal Condition:

ADDITIONAL LAB ANALYSES

TCE/PCE

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		0007.3
TCE	"		015C.—
PCE	"		0002.2

ANALYST S. H. [illegible] SIGNATURE

DATE 9/2/81

CENTRAL OFFICE

8611-38-22B

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 — 215-343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 — 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 — 536-6500

County Commissioners

ANDREW L. WARREN, *Chairman*
ELAINE P. ZETTICK
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*
John L. Stover, Jr., *Vice Chairman*
Mrs. Charles Benhayon
Francis L. Rickards, Jr., D.O.
Joseph J. Ryan

April 6, 1981

Mr. James Atkins
R.D. #1 Box 223 Rt 563
Ottsville, Pa. 18942

Dear Mr. Atkins:

On March 24, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are Trichloroethylene (TCE) 130 parts per billion (ppb), and Perchloroethylene (PCE) 20 parts per billion (ppb).

If your sample result is above 75 ppb TCE or 20 ppb PCE, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE or PCE. You may reduce your TCE/PCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb TCE and 20 ppb PCE is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

EPA also indicated that long term (70 years) consumption of 2 liters of water daily containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million. At a level of 35.5 ppb the carcinogenic risk is one in one hundred thousand.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb or the PCE concentration is between 3.55 and 20 ppb, you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes.)

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/dh
cc: Regional Sanitarian Manager
Central Files DER

ER-BWQ-13.1
REV 9-78

W | R

1 2

FACILITY SAMPLE

STREAM/RANDOM SAMPLE

NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number R1607

Date Received 3/25/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Atkins Residence		well	652

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	W.S.	D. Noll	0	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NCTFORWAIHS		0	M D Y: 03 24 81	Hr Min: 14 07	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	011652		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN Atkins kitchen sink.

CUSTODY LOG

How Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

R.D1 Box 563 Ottsville, Pa.

ADDITIONAL LAB ANALYSES

TCE

PCE

111 TCE

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		0004.0
TCE	"		0130.-
PCE	"		0020.-

ANALYST J. H. Malpiere
SIGNATURE

DATE 3/31/81

CENTRAL OFFICE

1 ☑ 2 STREAM/RANDOM SAMPLE NETWORK SAMPLE

BACTERIOLOGICAL ANALYSES

LAB. NO. 15901 | DATE RECEIVED 6-4-81

ESTABLISHMENT: Jim Atkins residence | CASE | FACILITY: well | COLL. NUMBER 830

COUNTY: Bucks | MUNICIPALITY: Nockamixon Twp. | PROGRAM: W. Qi | COLL. NAME: D. Noll | TYPE TR. 5 | Std. Analysis

CARD (3) 1 / 2 | ID CODE (ALL CARDS) 4-16: Cnty | Mun | T | Est | Case | Fac | LATITUDE 4-10 | LONGITUDE 11-18: 0 | DATE 19-24: M 06 D 03 Y 81 | TIME 25-28: HR 13 Min 36 | KIND 29: 3

USGS-Q 30-34 | AGENCY 35-37: 2 8 4 | Sample No. 38-43: 012830 | STREAM NAME 44-57 | Rel. Pt. 58 | Type 59-60: 04 | Source 61-62: 03 | Reason 63-64: 01

Composite Samples: P/U 65 | T/S 66 | Alg 67-68 | Cond. 80 | Flow:

STATION DESCRIPTION: Drinking Tap-kitchen sink

R.D. #1 Box 563

Field Analysis

Cl. Tot. mg/l (50060) ____ (_____)

Cl. Free mg/l (50064) ____ (_____)

COMMENTS

Total Coliforms (Per 100 ml) (3150 L) 0 — 0

Fecal Coliforms (Per 100 ml) (3161__)

Total Fecal Strep (Per 100 ml) (3167__)

Total Plate Count (Per ml) (31751)

CENTRAL OFFICE | ANALYZED BY: gac | DATE 6/5

☐ SAMPLE Exceeds Time Limits of Standard Methods for Valid Analysis

Legal Seal Condition

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		0008.6
TCE	"		0096.—
PCE	"		0017.—

ANALYST J. H. Malfiore SIGNATURE | DATE 6/5/81

CENTRAL OFFICE

8611-38-22C

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

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ELAINE P. ZETTICK, Chairperson

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*

John Jacoby, *Vice Chairman*

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

April 7, 1981

Ms. Mary Rocco
Box 210, RD#1, Rt. 563
Ottsville, PA 18942

Dear Ms. Rocco:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The result of your water sample is:

Trichloroethylene (TCE) 1.6 Parts per Billion

The Environmental Protection Agency has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at a level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand.

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/rad
cc: Ms. Dolores Robinson
Regional Sanitarian Manager
Central Files - DER

ER-BWQ-13.1
REV 9-78

W | R — FACILITY SAMPLE / STREAM/RANDOM SAMPLE

1 2 — NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 14695
Date Received 3/25/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Mary ~~[illegible]~~ Rocco Residence		Well	121650

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp.	W.Q.	D. Noll	D	1D

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR WATERS		0	M D Y: 03 24 81	Hr Min: 13 10	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012165 0		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Rocco R.D. 1 RT. 563 Ottsville Pa.
Porch Tap

CUSTODY LOG
How Shipped — Date
Legal Seal No.
Received by:
Legal Seal Condition:

ADDITIONAL LAB ANALYSES
TCE
PCE
111 TCE

QUALITATIVE REPORT

111-TCE + PCE - None detected

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
TCE	ug/l		0001.6

ANALYST J. H. Malgieri
SIGNATURE

DATE 3/31/81

CENTRAL OFFICE

8611-38-22D

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN

ELAINE P. ZETTICK, Chairperson

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.

Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*

John Jacoby *Vice Chairman*

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

April 6, 1981

Mr. W. P. Kellam
Box 221, Rt. 563, RD#1
Ottsville, PA 18942

Dear Mr. Kellam:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE) 7.9 Parts per billion (ppb)

Perchloroethylene (PCE) 0.6 Parts per billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/rad

cc: Regional Sanitarian Manager
Central Files - DER

R-WQ-13.1
EV 9-78

W | R — FACILITY SAMPLE / STREAM/RANDOM SAMPLE

1 - 2 NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 11A609

Date Received 3/25/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
W. P. Kellam residence		well	654

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	W. Q.	D. Noll	0	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOTAOR WAMES		0	M D Y: 0324 81	Hr Min: 1425	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	021654		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Kellam R.D. 1 rt. 563 Ottsville

Outside Tap

CUSTODY LOG

Raw Shipped — Date

Legal Seal No.

Received by:

Legal Seal Condition:

ADDITIONAL LAB ANALYSES
TCE
PCE
111 TCE

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		00006.5
TCE	"		00007.9
PCE	"		00006.6

ANALYST J. H. McAlpine
SIGNATURE

DATE 3/31/81

CENTRAL OFFICE

8611-38-22 E

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN
ELAINE P. ZETTICK, Chairperson
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*
John Jacoby, *Vice Chairman*
Mrs. Charles Benhayon
Francis L. Rickards, Jr., D.O.
Joseph J. Ryan

April 7, 1981

Mr. William Stever
RD#1, Box 222, Rt. 563
Ottsville, PA 18942

Dear Mr. Stever:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE) 17 Parts per Billion (ppb)

Perchloroethylene (PCE) 0.9 Parts per Billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Long Term (70 years) consumption of water containing PCE at the level of 3.55ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb, you can determine what the long term carcinogenic risk is for your water. To lower that risk, you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/rad

cc: Regional Sanitarian Manager
Central Files - DER

R-BWQ-13.1
EV 9-78

W | R | 1 | 2

FACILITY SAMPLE
STREAM/RANDOM SAMPLE
NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 04808
Date Received 3/25/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Wm. Stever residence		well	653

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp.	W.Q.	D. Noll	0	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOTHFUR WAMI		0	M D Y: 03 24 81	Hr Min: 14 20	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012653		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Stever ~~[illegible]~~ R.D. 1 Rt 563

CUSTODY LOG

Raw Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

outside Tap

ADDITIONAL LAB ANALYSES
TCE
PCE
111 TCE

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111 TCE	ug/l		0000.8
TCE	"		0017.—
PCE	"		0000.9

ANALYST J. H. McGiveron
SIGNATURE

DATE 3/31/81

CENTRAL OFFICE

8611-38-22F

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN

ELAINE P. ZETTICK, Chairperson

CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*

John Jacoby, *Vice Chairman*

Mrs. Charles Benhayon

Francis L. Rickards, Jr., D.O.

Joseph J. Ryan

April 7, 1981

Mr. J. F. McLaughlin
RD#1, Box 219, Rt. 563
Ottsville, PA 18942

Dear Mr. McLaughlin:

On March 24, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE) 43 Parts per Billion (ppb)

Perchloroethylene (PCE) 1.0 Parts per Billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the cencentrations below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb, the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/rad

cc: Regional Sanitarian Manager
Central Files - DER

ER-BWQ-13.1
REV 9-78

FACILITY SAMPLE

W | R — STREAM/RANDOM SAMPLE

1 2 NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 14696

Date Received 3/25/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
J.F. McLaughlin residence		well	651

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp.	W.Q.	D. Noll	0	1D

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1/2	Cnty Mun T Est Case Fac: NOT FOR WIRAN		0	M D Y: 03 24 81	Hr Min: 13 50	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	021651		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: McLaughlin R.D. #1 RT. 513 Ottsville

Kitchensink.

ADDITIONAL LAB ANALYSES: TCE, PCE, 111 TCE

CUSTODY LOG

How Shipped — Date

Legal Seal No.

Received by:

Legal Seal Condition:

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		0003.0
TCE	"		0043.1-
PCE	"		0001.0

ANALYST: J. H. MacGregor (SIGNATURE) DATE: 3/31/81

CENTRAL OFFICE

8611-38-22G

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN, *Chairman*
ELAINE P. ZETTICK
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*
John L. Stover, Jr., *Vice Chairman*
Mrs. Charles Benhayon
Francis L. Rickards, Jr., D.O.
Joseph J. Ryan

April 6, 1981

Ms. Cook
B6A Rt. 563
Ottsville, Pa. 18942

Dear Ms. Cook:

On March 11, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are Trichloroethylene (TCE) 110 parts per billion (ppb), Perchloroethylene (PCE) 2.6 parts per billion (ppb).

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/dh
cc: Regional Sanitarian Manager
Central Files DER
V. Panak

ER-BWQ-13.1
REV 9-78

W | R

1 2

FACILITY SAMPLE

STREAM/RANDOM SAMPLE

NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number

Date Received 3/12/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Cook residence			598

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	I.W.	D. Noll	0	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR WATERS		0	M D Y: 03 11 81	Hr Min: 13 05	6

USGS Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012158		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Bathroom sink B6A RT. 563

CUSTODY LOG

How Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

ADDITIONAL LAB ANALYSES

TCE

PCE

111 TCE

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		0008.5
TCE	"		0110.-
PCE	"		0002.6

ANALYST J. H. Malpiece SIGNATURE

DATE 3/23/81

CENTRAL OFFICE

8611-38-22H

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215–343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN, *Chairman*
ELAINE P. ZETTICK
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*
John L. Stover, Jr., *Vice Chairman*
Mrs. Charles Benhayon
Francis L. Rickards, Jr., D.O.
Joseph J. Ryan

April 6, 1981

Mr. Lawrence Comly
Box 213A Rt. 563
Ottsville, Pa. 18942

Dear Mr. Comly:

On February 25, 1981 a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The result of your water sample is: Trichloroethylene (TCE) 12 parts per billion (ppb).

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce your exposure to this excessive concentration of TCE. You may reduce your TCE exposure by one of these methods; drink bottled water, install a line by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentration below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long erm carcinogenic risk if for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling 5 to 10 minutes).

Please feel free to contact us at any time for additional information or questions that you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/dh
cc: Regional Sanitarian Manager
Central File

R-BWQ-13.1
EV 9-78

W | R | STREAM/RANDOM SAMPLE

1 2 NETWORK SAMPLE

FACILITY SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 02720

Date Received 2/26/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Lawrence [redacted]	Comly residence	well	565

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	W.Q.	R Noll	0	10

CARD (31)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR NAMES		0	M D Y: 02 25 81	Hr Min: 11 33	4

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012565		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN Outside Tap at Comly well
Box 213 A Ottsville, Pa.
Rt. 563

CUSTODY LOG

Now Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

ADDITIONAL LAB ANALYSES
TCE
PCE
111 TCE

QUALITATIVE REPORT

111-TCE + PCE - none detected

QUANTITATIVE RESULTS

ANALYSIS	UNITS	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
TCE	ug/l		0012. -

MAR 5 1981
BUCKS CO. DEPT. OF HEALTH

ANALYST J. H. McGuire
SIGNATURE

DATE 2/27/81

CENTRAL OFFICE

8611-38-227

COUNTY OF BUCKS

DEPARTMENT OF HEALTH

Neshaminy Manor Center, Doylestown, Pa. 18901 – 215-343-2800

FIELD OFFICES

410 Bath Road, Bristol, Pa. 19007 – 788-0491

515 West End Blvd., County North Annex Bldg., Quakertown, Pa. 18951 – 536-6500

County Commissioners

ANDREW L. WARREN, *Chairman*
ELAINE P. ZETTICK
CARL F. FONASH

Edmund K. Lindemuth, M.D., M.P.H.
Director

Board of Health

Paul W. McIlvaine, M.D., *Chairman*
John L. Stover, Jr., *Vice Chairman*
Mrs. Charles Benhayon
Francis L. Rickards, Jr., D.O.
Joseph J. Ryan

May 4, 1981

Mr. Robert Spare
1008 Willowpenn Drive
Southampton, Pa. 18966

Dear Mr. Spare:

On April 9, 1981, a representative of this Department collected a water sample from your well. The sample was analyzed by the Department of Environmental Resources Laboratory in Harrisburg. The results of your water sample are:

Trichloroethylene (TCE)	140 parts per billion (ppb)
Perchloroethylene (PCE)	1.8 parts per billion (ppb)

If your TCE sample result is above 75 ppb, the Department recommends you take steps to reduce the exposure to this excessive concentration of TCE. You may reduce the TCE exposure by one of these methods; drink bottled water, install a line-by-pass type activated carbon home treatment unit or boil the water for five to ten minutes. Should you decide to install a home treatment unit, we suggest you check with the Environmental Protection Agency (Mr. Bernie Sarnoski, 597-9873) in Philadelphia for the most current information on treatment units tested by EPA.

The level of 75 ppb is the concentrations below which long term consumption of water will not cause toxic damage to the body according to EPA.

Another health concept that must be considered is that of carcinogenic risk. EPA has indicated to us that long term (70 years) consumption of 2 liters of water daily containing TCE at the level of 4.5 ppb will increase the carcinogenic risk to one in one million. At a level of 45 ppb, the carcinogenic risk is one in one hundred thousand. The carcinogenic risk at 75 ppb is one in sixty thousand.

Long term (70 years) consumption of water containing PCE at the level of 3.55 ppb will increase the carcinogenic risk to one in one million.

EPA recommends that action be taken to lower carcinogenic risk levels to less than one in a million.

Thus, if the TCE concentration is between 4.5 ppb and 75 ppb you can determine what the long term carcinogenic risk is for your water. To lower that risk you may use one of the methods listed in the first part of this letter (bottled water, activated carbon filter, boiling water 5 to 10 minutes.)

Please feel free to contact us at any time for additional information or questions tha you may have.

Very truly yours,

David J. Noll

David J. Noll
Division of Environmental Engineering

DJN/dh
cc: Regional Sanitarian Manager
Central Files - DER

ER-BWQ-13.1
REV 9-70

W | R

1 2

FACILITY SAMPLE

STREAM/RANDOM SAMPLE

NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number

Date Received 4/10/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Andy Woodward residence		Well	717

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	W. Q.	D. Noll	D	1 D

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est. Case Fac: NOT FOR WATTS		0	M D Y: 04 09 81	Hr Min: 12 40	4

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	01 21 7 1 7		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Outside Tap, RT. 563, Ottsville, Pa. 18942

ADDITIONAL LAB ANALYSES: TCE, PCE, 111 TCE

CUSTODY LOG

How Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

QUALITATIVE REPORT

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		00005.8
TCE -	"		0140.-
PCE	"		0001.8

ANALYST J. H. Maljevac
SIGNATURE

DATE 4/17/81

CENTRAL OFFICE

CR-BWQ-13.1
REV 9-78

W | R

1 2

FACILITY SAMPLE

STREAM/RANDOM SAMPLE

NETWORK SAMPLE

8011-38-LL

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF WATER QUALITY MANAGEMENT

WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 137737

Date Received 3/12/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Ray Miller residence			599

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	FW	D. Noll	0	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR NAMES		0	M D Y: 03 11 81	Hr Min: 13 15	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012599		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Outside Tap at rear of house (before water softener)

RT. 563 - (Gravel La. near Hall)

CUSTODY LOG

How Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

ADDITIONAL LAB ANALYSES

TCE

PCE

111 TCE

QUALITATIVE REPORT

111-TCE + PCE - none detected

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
TCE	ug/l		00016.0

ANALYST J. H. Malfeuc
SIGNATURE

DATE 3/23/81

CENTRAL OFFICE

R-BWQ-13.1
EV 9-78

W | R | 1 | 2

FACILITY SAMPLE
STREAM/RANDOM SAMPLE
NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 02718
Date Received 2/26/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Larry Hall residence		well	563

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	W. Q	D. Noll	1	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR LIMITS		01	M D Y: 02 25 81	Hr Min: 10 50	4

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012563		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Raw well from pressure Tank (after chlorination) Hall res. Box 212 Ottsville, Pa.

CUSTODY LOG
Now Shipped — Date
Legal Seal No.
Received by:
Legal Seal Condition:

ADDITIONAL LAB ANALYSES: TCE, PCE, 111 TCE

QUALITATIVE REPORT

other peaks present - no I.D.

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	ug/l		00166 -
TCE	"		00506 -
PCE	"		00056

MAR 2 1981
BUREAU OF ENV. HEALTH

ANALYST J. H. Malpeine (SIGNATURE) DATE 2/27/81

CENTRAL OFFICE

R-BWQ-13.1
EV 9-78

W | R | STREAM/RANDOM SAMPLE

1 2 NETWORK SAMPLE

FACILITY SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 02719
Date Received 2/26/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Larry Hall residence		well	564

MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp. W.Q.	P. Moll	4+7	10

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR WANTS		0	M D Y: 02 25 81	Hr Min: 10 55	3

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012156 4		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Finished water after carbon filter from kitchen tap.

CUSTODY LOG

Now Shipped Date

Legal Seal No.

Received by:

Legal Seal Condition:

ADDITIONAL LAB ANALYSES: TCE, PCE, 111 TCE

QUALITATIVE REPORT

111-TCE + TCE + PCE - none detected

QUANTITATIVE RESULTS

ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)

MAR 2 1981
BUCKS CO. DEPT. OF HEALTH

ANALYST J. H. Malpiere
SIGNATURE

DATE 2/27/81

CENTRAL OFFICE

ER-BWQ-13.1
REV 9-78

W | R

1 2

FACILITY SAMPLE

STREAM/RANDOM SAMPLE

NETWORK SAMPLE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF WATER QUALITY MANAGEMENT
WATER OR WASTE QUALITY REPORT — SPECIAL ANALYSES

Lab Number 17778

Date Received 3/12/81

ESTABLISHMENT	CASE	FACILITY	COLL NUMBER
Larry Hall Complaint			600

COUNTY	MUNICIPALITY	PROGRAM	COLL NAME	TYPE TR	STD ANALYSIS
Bucks	Nockamixon Twp	F.W.	D. Noll	0	50

CARD (3)	ID CODE (ALL CARDS) 4-16	LATITUDE 4-10	LONGITUDE 11-18	DATE 19-24	TIME 25-28	KIND 29
1 / 2	Cnty Mun T Est Case Fac: NOT FOR WAMES		0	M D Y: 03 11 81	Hr Min: 13 45	6

USGS-Q 30-34	AGENCY 35-37	SAMPLE NUMBER 38-43	STREAM NAME 44-57	RELATIVE POINT 58
	BCH	012160 0		

TRIBUTARY TO:

FULL DESCRIPTION WHERE SAMPLE TAKEN: Soil sample from field near Hall res. at site of previous drum storage area.

CUSTODY LOG

How Shipped | Date

Legal Seal No.

Received by:

Legal Seal Condition:

ADDITIONAL LAB ANALYSES: TCE, PCE, 111 TCE

QUALITATIVE REPORT

QUANTITATIVE RESULTS

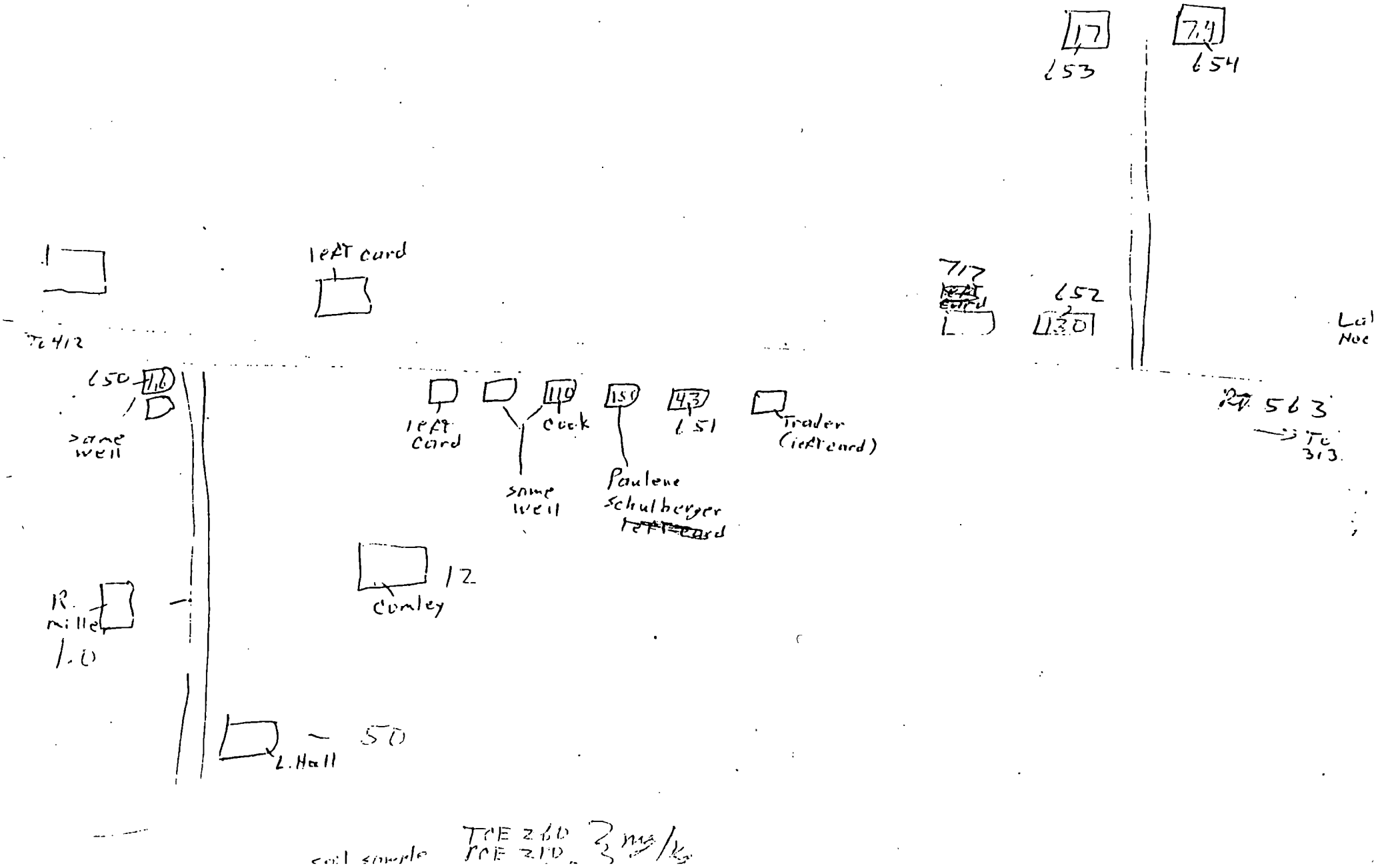
ANALYSIS:	UNITS:	ANALYSIS CODE	RESULTS (SHOW DECIMAL POINTS ON LINES)
111-TCE	mg/kg		079.
TCE	"		260.
PCE	"		210.

ANALYST: J. H. Maljevac (SIGNATURE)

DATE: 3/23/81

CENTRAL OFFICE

3-24-81


17
153
74
154
left card
717
152
130
To 412
150
same well
left card
110
Cook
same well
158
Paulene Schulberger
43
151
Trader (left card)
563
To 313
12
Comley
R. Miller
1.0
L. Hall
50
soil sample
TCE 260
TCE 210
3 mg/kg

NUS CORPORATION
SUPERFUND DIVISION

QUALITY ASSURANCE RECORDS LOG

SDD/TOD/WA:	SITE:	SITE NO.:	OFFICE:
F3-8611-38	BUCKS CO. SITE DISCOVERIES		FIT III, Wayne, Pennsylvania

SDD/TOD/WA MANAGER:	DOCUMENT CUSTODIAN:	PROJECT NO.:	PAGE 1 OF 1
MIKE SNYDER	ALEXANDRA MUSCHELLI		

Docket Number	Date Entered	RECORD DESCRIPTION	STORAGE LOCATION	FILE NO.
8611-38-22A	3-30-87	9/9/81 letter: From ~~Pauline Schu~~ David J. Noll, Bucks Co. DOH, to Pauline Schulberger, Ottsville PA resident concerning water testing results (2pp) with testing results (3pp total).	All records are located in the FIT III file room unless otherwise noted.	All records are located in TDD file unless otherwise noted.
8611-38-22B	3-30-87	4/6/81 letter: From David J. Noll, Bucks Co DOH, to James Atkins, Ottsville PA resident, concerning water testing results (2pp) with testing results (4pp total).		
8611-38-22C	3-30-87	4/7/81 letter: From David J. Noll, Bucks Co DOH, to Mary Rocco, Ottsville, PA, concerning water testing results (1pp) with testing results (2pp total).		
8611-38-22D	3-30-87	4/6/81 letter: From David J. Noll, Bucks Co DOH, to W. P. Kellam, Ottsville PA, concerning water testing (2pp) with testing results (3pp total).		
8611-38-22E	3-30-87	4/7/81 letter: From David J. Noll, Bucks Co. DOH, to William Stever, Ottsville resident, concerning water testing results (2pps) with testing results (3pps total).		
8611-38-22F	3-30-87	4/7/81 letter: From David J. Noll, Bucks Co. DOH, to J. F. McLaughlin, Ottsville, PA resident, concerning water testing results (2pps) with testing results (3pps total).		
8611-38-22G	3-30-87	4/6/81 letter: From David J. Noll, Bucks Co. DOH, to Mrs. Cook, Ottsville, PA, ~~letter~~ resident, concerning water testing results (2pps) with testing results (3pps total).		
8611-38-22H	3-30-87	4/6/81 letter: From David J. Noll, Bucks Co DOH, to Lawrence Conly, Ottsville, PA, resident, concerning water testing results with testing results (3pps total).		
8611-38-22I	3-30-87	2/17/81 Field Action Report (3b-2A HALL): By David J. Noll PADER, on Larry Hall, Ottsville, PA, case (2pps), with ~~testing report (3pps total)~~ (5pps total)		
8611-38-22J	3-30-87	5/4/81 letter: From David J. Noll, Bucks Co DOH, to Mr Robert Spare, Southampton PA resident, concerning water testing results on the A. Woolward residence, Ottsville PA (2pp) with testing results (3pps total).		
———	3-30-87			
8611-38-22K	3-30-87	Nockamixon TCE Sample list, with sampling location maps (4pps total).		
8611-38-22L	3-30-87	3/21/81 (Date received) water testing results for Ray Miller residence, Nockamixon Twp, PA (1pps)		

APPENDIX B

HOME WELL SURVEY

Home Owner's Name: Simone Hall Date: _____

Address: Box 212 Rt 1 Home Phone: 447 8218
Ottsville Work Phone: _____

1. Please describe the type of home well you presently utilize:
(Check those which apply)

_____ Dug well
X Drilled by a rig; if so, please identify company (name, address, and phone):
_____
_____
_____
_____ Other (describe) _____

1a. Please estimate the following: Year installed 1950's
Date of last service 1982
Company who serviced (name, address, and phone): _____
_____
_____

2. Please provide the following measurements of your well:

a. Total depth: _____
b. Well diameter: _____

3. Please describe the casing material used in your well:

a. Composition
_____ Iron _____ PVC _____ Galvanized _____ Terra Cotta
_____ Other - Please Specify (if known)

b. Length (if known): _____

HOME WELL SURVEY

Home Owner's Name: _____ Date: _____

4. Please describe, if known, any screening material used in your well:

   a. Length of screen: _____

   b. Depth of screen in well: _____

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):

   _____

6. Please indicate the composition of home plumbing (pipes) in your system:

   _____ Iron _____ PVC _____ Galvanized _____ Lead

   ✓ Other (describe): Copper

7. Please describe the water pump used in your system:

   a. Location of the pump

   _____ Inside the well (submersible pump); Depth in well: _____

   _____ Outside the well (indicate location): _____

   b. Type of pump

   Branch (if known): _____

   Capacity (gallons per minute): _____

   c. Estimate hours of pump operation per day: _____

   d. Is storage tank used: _____ Yes _____ No

   Type (material) _____ Capacity _____

8. a. Do you regularly or have you ever added chemicals directly to your well?

   (i.e., chlorine, clorox, etc.) _____ Yes _____ No

   If yes, date last added: _____ Approximate amount added _____

   Compound (brand name): _____

   Carbonated filter

HOME WELL SURVEY

Home Owner's Name: _____ Date: _____

b. Please describe any type of water treatment you are currently using (check those which apply):

_____ Filtration
Type: Carbon filter

✓ Water Softeners
Indicate Brand: _____

_____ Other (explain)
water purifier

9. Please indicate any testing that has been done on your water:

Date of testing: _____
Name of individual(s) responsible for testing: BLHD

10. Well Use: X Drinking _____ Other: _____

11. Do you notice color, taste, or odor problems with well water? X Yes _____ No
If yes, identify: _____

Do you notice water supply problems? _____ Yes X No
If yes, when: _____ how often: _____

12. Please indicate the type(s) of wastewater system used (check):
Sewer Line _____
Septic Tank X Cesspool _____ Drain Field _____
Distance to Well _____

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

X Yes, I will allow my well to be sampled.
_____ No, I will not allow my well to be sampled.

HOME WELL SURVEY

Home Owner's Name:_____ Date:_____

If yes, please indicate the time of day which would be convenient for us to sample.

_____ Morning _____ Afternoon _____ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.

C

HOME WELL SURVEY

Home Owner's Name: Miller Date: _____

Address: RD 1 BOX 213 Route 583 Home Phone: 847-2147
Ottsville Work Phone: _____

1. Please describe the type of home well you presently utilize:
(Check those which apply)

_____ Dug well
_____ Drilled by a rig; if so, please identify company (name, address, and phone):
_____
_____
_____
_____ Other (describe) _____

1a. Please estimate the following: Year installed 1965
Date of last service 1981
Company who serviced (name, address, and phone): _____
_____
_____

2. Please provide the following measurements of your well:

a. Total depth: 240
b. Well diameter: 6-8

3. Please describe the casing material used in your well:

a. Composition
_____ Iron ____ PVC ?_ Galvanized _____ Terra Cotta
_____ Other - Please Specify (if known)

b. Length (if known): 20-20'

4/20/88

HOME WELL SURVEY

Home Owner's Name: _____ Date: _____

4. Please describe, if known, any screening material used in your well:

   a. Length of screen: _____

   b. Depth of screen in well: _____

5. Please indicate, if known, the depth to the groundwater in your well (from the surface): 200'

6. Please indicate the composition of home plumbing (pipes) in your system:

   ____ Iron X PVC ____ Galvanized ____ Lead

   ____ Other (describe): Copper

7. Please describe the water pump used in your system:

   a. Location of the pump

   X Inside the well (submersible pump); Depth in well: _____

   ____ Outside the well (indicate location): _____

   b. Type of pump

   Branch (if known): _____

   Capacity (gallons per minute): 38

   c. Estimate hours of pump operation per day: 2 hr.

   d. Is storage tank used: X Yes ____ No

   Type (material) ~~Bladder lining~~ Copper Capacity 30 gal

8. a. Do you regularly or have you ever added chemicals directly to your well?

   (i.e., chlorine, clorox, etc.) ____ Yes X No

   If yes, date last added: _____ Approximate amount added _____

   Compound (brand name): _____

HOME WELL SURVEY

Home Owner's Name: _____ Date: _____

b. Please describe any type of water treatment you are currently using (check those which apply):

_____ Filtration

Type: _____

X Water Softeners

Indicate Brand: _____

_____ Other (explain)

_____

_____

_____

9. Please indicate any testing that has been done on your water:

Date of testing: 1981

Name of individual(s) responsible for testing: BLHD

10. Well Use: X Drinking _____ Other: _____

11. Do you notice color, taste, or odor problems with well water? _____ Yes X No

If yes, identify: _____

Do you notice water supply problems? _____ Yes X No

If yes, when: _____ how often: _____

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line _____

Septic Tank X Cesspool _____ Drain Field _____

Distance to Well _____

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

X Yes, I will allow my well to be sampled.

_____ No, I will not allow my well to be sampled.

HOME WELL SURVEY

Home Owner's Name:_____ Date:_____

If yes, please indicate the time of day which would be convenient for us to sample.

_____ Morning _____ Afternoon _____ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.

D

HOME WELL SURVEY

Home Owner's Name: Kasenia Date: _____

Address: RD #2 Box 211 Home Phone: 847-8110
Ottsville Work Phone: _____

1. Please describe the type of home well you presently utilize:
(Check those which apply)

____ Dug well
X Drilled by a rig; if so, please identify company (name, address, and phone):

_____

____ Other (describe) _____

1a. Please estimate the following: Year installed 1950
Date of last service 1984
Company who serviced (name, address, and phone): Copper plumbing

2. Please provide the following measurements of your well:

a. Total depth: _____
b. Well diameter: _____

3. Please describe the casing material used in your well:

a. Composition
____ Iron ____ PVC ____ Galvanized ____ Terra Cotta
____ Other - Please Specify (if known)

b. Length (if known): _____

4/20/88

HOME WELL SURVEY

Home Owner's Name:_____ Date:_____

4. Please describe, if known, any screening material used in your well:

   a. Length of screen: _____

   b. Depth of screen in well: _____

5. Please indicate, if known, the depth to the groundwater in your well (from the surface):

   _____

6. Please indicate the composition of home plumbing (pipes) in your system:

   _____ Iron _____ PVC X Galvanized _____ Lead

   _____ Other (describe):_____

7. Please describe the water pump used in your system:

   a. Location of the pump

   X Inside the well (submersible pump); Depth in well:_____

   _____ Outside the well (indicate location):_____

   b. Type of pump

   Branch (if known):_____

   Capacity (gallons per minute):_____

   c. Estimate hours of pump operation per day: 2

   d. Is storage tank used: _____ Yes _____ No

   Type (material) _____ Capacity _____

8. a. Do you regularly or have you ever added chemicals directly to your well?

   (i.e., chlorine, clorox, etc.) _____ Yes X No

   If yes, date last added: _____ Approximate amount added _____

   Compound (brand name): _____

HOME WELL SURVEY

Home Owner's Name:_____ Date:_____

b. Please describe any type of water treatment you are currently using (check those which apply):

_____ Filtration

Type:_____

_____ Water Softeners

Indicate Brand: _____

_____ Other (explain)

_____

_____

_____

9. Please indicate any testing that has been done on your water:

Date of testing: _____

Name of individual(s) responsible for testing: BCHD

10. Well Use: X Drinking _____ Other: _____

11. Do you notice color, taste, or odor problems with well water? _____ Yes _____ No

If yes, identify: when rain gravelly

Do you notice water supply problems? X Yes _____ No

If yes, when: _____ how often: _____

low pressure

12. Please indicate the type(s) of wastewater system used (check):

Sewer Line_____

Septic Tank X Cesspool _____ Drain Field _____

Distance to Well _____

13. We may be taking water samples from many area homes in the near future. If your well is chosen for sampling, would you be willing to allow our NUS representatives to sample your well? Sampling involves collecting water from one of your indoor or outdoor spigots.

X Yes, I will allow my well to be sampled.

_____ No, I will not allow my well to be sampled.

HOME WELL SURVEY

Home Owner's Name:_____ Date:_____

If yes, please indicate the time of day which would be convenient for us to sample.

_____ Morning _____ Afternoon _____ Evening

14. In the space below, please furnish a rough sketch of your property, indicating the location of your well and on-lot wastewater system, if applicable. Also indicate the location of the spigot you would prefer us to sample.