

554SERBSF10,632

554SERBSF10,632

Site Name (Subject): TOWN CREEK REGIONAL WWTP

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TO FACILITY

DATE: August 22, 1995
SUBJECT: REMOVAL FROM EPA'S CERCLIS INVENTORY
FROM: Matthew J. Robbins, Brownfields Coordinator
Waste Management Division, Region IV

TO: TOWN CREEK REGIONAL WWTP
HEILIGTOWN RD
SALISBURY
NC 28144

EPA has identified the Brownfields Initiative as one of the Agency's top priorities. The term "brownfields" refers to previously used properties that may lie vacant because potential contamination makes them unmarketable to the private sector. EPA has recently announced a comprehensive Brownfields strategy, including Pilot grants to municipalities, to stimulate economic revitalization.

One part of the strategy has been for EPA to review its complete inventory of Superfund sites. These sites have been screened and determined to require no remedial action under the Federal Superfund Program based on information available as well as on conditions and policies that currently exist. This is to notify you that EPA has removed your facility from EPA's computer inventory known as CERCLIS. THIS DOES NOT INDICATE THAT THE STATE HAS MADE A SIMILAR DETERMINATION.

If you have any questions, please call me at 404/347-5059 ext. 6214.

cc: State Agency



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

FEB 07 1995

4WD-WPB

Ms. Pat DeRosa, Head
CERCLA Branch
North Carolina Department of Environment,
Health and Natural Resources
Division of Solid Waste Management
P.O. Box 27687
Raleigh, North Carolina 27611-7687



Dear Ms. DeRosa:

The following reports have recently been reviewed and accepted by EPA - Region IV Site Assessment Section:

Site Inspections

Consolidated Warehouse
Mecklenburg County
NCD 130 708 126

Further Action (FA)

Site Inspection Prioritizations (SIPs)

HK Research Corporation
Catawba County
NCD 000 616 763

No Further Action
Planned (NFRAP)

Meredith/Burda, Inc.
Moore County
NCD 991 279 118

NFRAP

Town Creek Regional WWTP
Rowan County
NCD 980 843 528

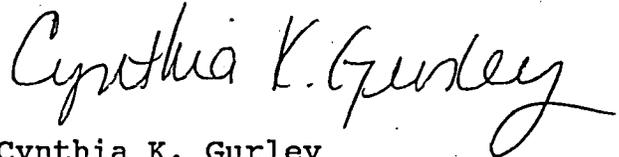
NFRAP

Enclosed please find the Remedial Site Assessment Decision Forms for each report generated by the North Carolina Superfund program and a copy of the actual report generated by the EPA Contractor.

In addition, I have enclosed a copy of the CERCLA Site Status Report for North Carolina.

If you have any questions concerning these site decisions, please call me at (404) 347-5059, Extension 6150.

Sincerely,



Cynthia K. Gurley
North Carolina, PO

Enclosures

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

To NC

Site Name: Town Creek Regional Wastewater Treatment Plant

EPA ID#: NCD 980 843 528

Alias Site Names: _____

City: Spencer

County or Parish: Rowan

State: NC

Refer to Report Dated: August 1, 1994

Report type: SIP

Report developed by: Susan Martin, BVWS

RECEIVED
FEB 14 1995
SUPERFUND SECTION

DECISION:

1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

1a. Site does not qualify for further remedial site assessment under CERCLA (No Further Remedial Action Planned - NFRAP)

1b. Site may qualify for further action, but is deferred to: RCRA NRC

2. Further Assessment Needed Under CERCLA: 2a. (optional) Priority: Higher Lower

2b. Activity Type: PA SI ESI HRS evaluation

Other: _____

DISCUSSION/RATIONALE: In October of 1984, the North Carolina Department of Human Resources, Division of Health Services conducted an SI at the site. No contamination was detected on site. Therefore, for the purpose of scoring this site on the hazard ranking system, the chemicals assumed to have been buried on site were used to evaluate the site.

No observed release to any pathway was documented, however even if an observed release to the ground water, surface water and soil exposure pathways were documented, the site would not score above 28.5.

Report Reviewed and Approved by: Cynthia K. Gurley Signature: Cynthia Gurley Date: 12/01/94

Site Decision Made by: Cynthia K. Gurley Signature: Cynthia Gurley Date: 12/01/94

MARK DURWAY, 2178

S & HW

3012 program

C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES

STATE LABORATORY OF PUBLIC HEALTH

P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

A.S.A.V.

002618

I-ORGANIC

Site Number _____ Field Sample Number _____

Name of Site TOWN CREEK WWTP Site Location SALISBURY, ROWAN Co., NC

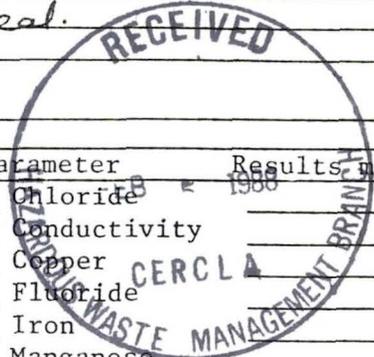
Collected By KELLY PATTON CITY OF SALISBURY IND. SUPERINTENDENT Date Collected 10-19-84 Time PM

Type of Sample:

Environmental	Concentrate	Comments
Groundwater	Solid	<u>Sample submitted in</u>
Surface Water	Liquid	<u>plastic container</u>
<input checked="" type="checkbox"/> Soil	Sludge	<u>poor seal.</u>
Other	Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>3.8</u>	Chloride	<u>1980</u>
<input type="checkbox"/> Barium		<input type="checkbox"/> Barium		Conductivity	
<input checked="" type="checkbox"/> Cadmium	<u><0.05</u>	<input checked="" type="checkbox"/> Cadmium	<u>2.8</u>	Copper	
<input checked="" type="checkbox"/> Chromium	<u><0.05</u>	<input checked="" type="checkbox"/> Chromium	<u>390</u>	Fluoride	
<input checked="" type="checkbox"/> Lead	<u><0.1</u>	<input checked="" type="checkbox"/> Lead	<u>120</u>	Iron	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	<input checked="" type="checkbox"/> Mercury	<u>0.48</u>	Manganese	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input checked="" type="checkbox"/> Selenium	<u><1.6</u>	Nitrate	
<input checked="" type="checkbox"/> Silver	<u><0.05</u>	<input checked="" type="checkbox"/> Silver	<u><2.4</u>	pH	
<input checked="" type="checkbox"/> Sb (ANTIMONY)	<u>0.35</u>	<input checked="" type="checkbox"/> Sb	<u>3.6</u>	Sulfates	
<input checked="" type="checkbox"/> Cu	<u><0.05</u>	<input checked="" type="checkbox"/> Cu	<u>88</u>	TDS	
<input checked="" type="checkbox"/> Zn	<u>0.47</u>	<input checked="" type="checkbox"/> Zn	<u>200</u>	Zinc	
				TOC	



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin		Toxaphene		PCB's	
Lindane		2,4-D		Petroleum	
Methoxychlor		2,4,5-TP (Silvex)		EDB	
				TOX	

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls	Gross Alpha	
(MPN) Coliform Colonies/100mls	Gross Beta	

Date Received _____ Date Reported 4 Dec 84

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 45869 OCT 29 84

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICE
 SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

INORGANIC

Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
Storage Facility Disposal Facility Landfill
 Other: _____

Company's Name TOWN CREEK WWTP Telephone (704) 637-2200
 ext 265

Address Hellitown Rd., Salisbury, NC 28144

Collector's Name KELLY PATTON Telephone (704) 637-2200
 signature ext 265

Date Sampled 19 - OCTOBER 1984 Time Sampled PM

Type of Process Generating Waste specialty chemicals plant (PROCTOR (HEM Co.))

Field Information

2618 / from alleged ~~site~~ disposal site which city employees excavated w backhoe.

~~1477~~ " " "

Field Sample No. 2618 ~~1477~~

Chain of Possession:

1.	<u>KELLY PATTON</u> signature	<u>Superintendent @ Salisbury, NC</u> title	<u>19 Oct 84</u> inclusive dates
2.	<u>USPS Express Mail</u> signature	_____ title	<u>19 Oct - 22 Oct 1984</u> inclusive dates
3.	<u>D. Mark Dunway</u> ^{3012 program office} signature	<u>geologist</u> title	<u>22 Oct - 25 Oct 1984</u> inclusive dates
Results reported	<u>W E Walker</u> signature	<u>Chemist</u> title	<u>25 Oct 84</u> date
	<u>W E Walker</u> signature	<u>Chemist</u> title	<u>4 Dec 84</u> date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

23 June 1987

Mr. John Vest, Director of Public Works
City of Salisbury
P.O. Box 479
Salisbury, NC 28144

Dear Mr. Vest:

Please find enclosed the US EPA geophysical survey report for the Grant Creek and Town Creek Waste Water Treatment Plants.

In summary, EPA investigators delineated eight magnetic anomalies at Grant Creek WWTP. One of the anomalous areas (location GCA 4, Figure 3) appears to be at or near the point which your men encountered a rusty drum and white chemicals. The report recommends that the eight anomalous areas be excavated by backhoe, provided that precautionary measures are taken to insure the health of the backhoe operator and associated personnel. No magnetic anomalies were detected at Town Creek WWTP.

Please contact Jerry Rhodes or me at (919) 733-2178 if we may be of further service to you.

Sincerely,

D. Mark Durway

D. Mark Durway, Geologist
CERCLA Unit
Solid and Hazardous Waste Management Branch
Environmental Health Section

DMD/tb/0338b

Enclosure

MAR 24 1985

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Report - Geophysical Survey - Grant's Creek WWTW and Town Creek WWTW - Salisbury, North Carolina

Environmental Engineer
Hazardous Waste Section

Jon Johnston
ICS/ERRE

THRU: M. D. Lair, Chief
Hazardous Waste Section



Attached is a copy of the subject report. The following individuals have requested a copy of the report:

Mark Durway
North Carolina Department
of Health Services
Solid and Hazardous Waste Management
P. O. Box 2091
Raleigh, North Carolina 27602-2091

Kelly Patton, Supr. of Plants
City Hall
Salisbury, North Carolina 28144

If you have any questions regarding this report. Please contact Fred Sloan at FTS 250-3117.

R. J. Bruner III

Attachment

cc: Carter
Finger/Adams
Green/Stonebraker

R. Bruner:pd:ESD:3117:3/12/85

CONCURRENCES

SYMBOL	4-ES/En						
SURNAME	RJS						
DATE	3/12/85						

GEOPHYSICAL SURVEY
GRANT'S CREEK WASTEWATER TREATMENT PLANT
TOWN CREEK WASTEWATER TREATMENT PLANT
SALISBURY, NORTH CAROLINA
ESD PROJECT NO'S 85E-007 and 85E-008

INTRODUCTION

Messrs. R. J. Bruner III, Fred Sloan and Jim Kopotic, U. S. Environmental Protection Agency (US-EPA), Region IV, Environmental Services Division (ESD), Hazardous Waste Section (HWS), conducted geophysical surveys at the Grant's Creek Wastewater Treatment Plant (WWTP) and the Town Creek WWTP located in Salisbury, North Carolina (see figure 1) during November 13-15, 1984. This survey was requested by the US-EPA, Region IV, Air and Waste Management Division (AWMD), Emergency and Remedial Response Branch (ERRB), Investigation and Compliance Section (ICS). The objective of this survey was to locate areas on the wastewater treatment plant grounds where metallic drums may have been buried as alleged in anonymous complaints.

BACKGROUND AND STUDY AREAS

Background

It has been alleged that approximately 15 years ago, drums containing liquid waste from the National Starch and Chemical Company were brought to the plant grounds for disposal. According to Kelly Patton, Superintendent of Public Works, Salisbury, North Carolina, the anonymous informant indicated that pits were dug at the Town Creek WWTP, and drums were emptied into the pits. After the drum contents were emptied into the pits, the drums were returned to National Starch and Chemical Company and the pits were backfilled. At the Grant's Creek facility, it is alleged that pits were dug and the drums were placed in the pits and subsequently buried. The anonymous source did not know whether the drums were full or empty when placed in the pits or if the drums were crushed prior to burial.

The North Carolina Department of Natural Resources (NC-DNR) and the City of Salisbury looked for the drums during October 1984 using a backhoe, but with no success (see figures 2 and 3).

Study Areas

The alleged burial areas were pointed out to surveying personnel by Kelley Patton (see figures 2 and 3). At the Town Creek facility there were two areas to be surveyed, Area 1 and Area 2 (see figure 2). Area 1 consisted of a small, approximately 5-acre area which the WWTP was using for land application of sludge. Open pits and disturbed soil indicated the recent digging by NC-DNR and the City of Salisbury. Area 2 consisted of a large, approximately 100 acre area, crossed by high tension power lines and bounded by a pond (dry at the time of the survey) on the west. At

the Grant's Creek facility, there were, two areas of interest which were designated Area 3 and Area 4. Area 3 was a field (approximately 20 acres) southwest of the WWTP which was used for the land application of sludge. Area 4 consisted of approximately 20 acres on both sides of the facility's fence northwest of the activated sludge lagoon.

SUMMARY AND CONCLUSIONS

Eight magnetic anomalies were identified at the Grant's Creek WWTP. Three of those areas were relatively small and grouped close to one another outside the fence to the southwest of the facility. The other five were larger in area, and produced stronger responses on the geophysical surveying equipment. These areas were grouped to the north of the activated sludge lagoon, one inside the fence and the others outside the fence.

No magnetic anomalies were identified at the Town Creek WWTP.

RECOMMENDATIONS

The eight areas exhibiting magnetic anomalies at the Grant Creek WWTP should be excavated with a backhoe. Procedures should be instituted to insure the safety of the backhoe operator and associated personnel. If drums or buried waste products are discovered an attempt should be made to obtain samples for analysis.

RESULTS

No magnetic anomalies were found in the areas examined at the Town Creek WWTP (see figure 2). Eight magnetic anomalies were found at the Grants Creek facility. These anomalies were designated GCA-1 thru GCA-8 and their locations are indicated on figure 3.

GCA-1

Background readings for the proton magnetometer were 53,300 gammas while the EM-31 registered a background response of 23.5 mmhos/meter. A 40 foot by 30 foot area was examined at 10 foot intervals. The response of the EM-31 was unchanged from background on the northwest side of the area, but became much stronger as the instrument was moved southeast towards the tree line deflecting to less than zero at the approximate center of the area. The proton magnetometer reading was approximately 56,100 gammas in this area. This maximum response was observed over an area about 8 feet in diameter. A strong response was observed on the metal detector in this same area.

GCA-2

This area was gridded at five foot intervals. The EM-31 indicated that the entire 20 by 20 foot area contained a magnetic anomaly, while the maximum response of the proton magnetometer indicated an area approximately 4 feet in diameter. The metal detector also indicated an anomaly.

GCA-3

A 30 foot by 20 foot area was gridded at 10 foot intervals. The EM-31 indicated the entire area contained a magnetic anomaly, with the strongest response at the approximate center. The proton magnetometer's maximum response indicated an area approximately 12 feet in diameter and the metal detector also indicated an anomaly in the area. The EM-31 gave some indication that the anomaly was oriented (i.e., response similar to that of a short piece of pipe or cable).

GCA-4

This area and those following were not gridded. The EM-31 could not be used for absolute readings because of the close proximity of high tension power lines and the metal fence. The proton magnetometer indicated a background of 53,000 gammas in the area, and a maximum response of 55,500 gammas. The EM-31 in its buried metal detection mode and the metal detector gave strong responses in this area, confirming the anomaly. Surveying personnel noted the area to be barren of vegetation and a white, waxy looking solid substance was noted buried in the bank north of the road at the north corner of the activated sludge lagoon.

GCA-5

This area had by far the largest and strongest anomaly. The EM-31 in its buried metal detection mode revealed an area approximately 30 feet by 36 feet where the deflection dropped to zero. The metal detector confirmed this giving a strong response in the same area. The proton magnetometer also indicated an anomaly in the area, and gave its maximum response (57,284 gammas) near the fence in the approximate center of the southwestern edge of the anomaly.

GCA-6

The EM-31 gave a strong response in this area (less than 0) which was confirmed by the metal detector. The proton magnetometer's maximum response was 54,803 gammas, in the center of the anomaly. The approximate diameter of the anomaly was 10 feet.

GCA-7

The EM-31 gave a strong response in this area (less than 0), which was confirmed by the metal detector. The proton magnetometer gave a maximum response of 56,959 gammas in the center of the anomaly. The approximate diameter of the anomaly was 10 feet.

GCA-8

The EM-31 gave a strong response in this area (less than 0), which was confirmed by the metal detector. The proton magnetometer gave a maximum response of 55,368 gammas in the center of the anomaly. The approximate diameter of the anomaly was 15 feet.

METHODOLOGY

The survey was accomplished with the following equipment: Geonics EM-31 electromagnetometer in the soil conductivity mode and buried metal detection mode; Pipe Seeker 5 metal detector and Unimag II proton magnetometer. This equipment was operated in accordance with the respective instruction manuals. Areas of magnetic anomalies were located using standard surveying techniques. Raw data from the survey is presented as Appendix A.

GRANT CREEK WWTP
SEWAGE DISPOSAL

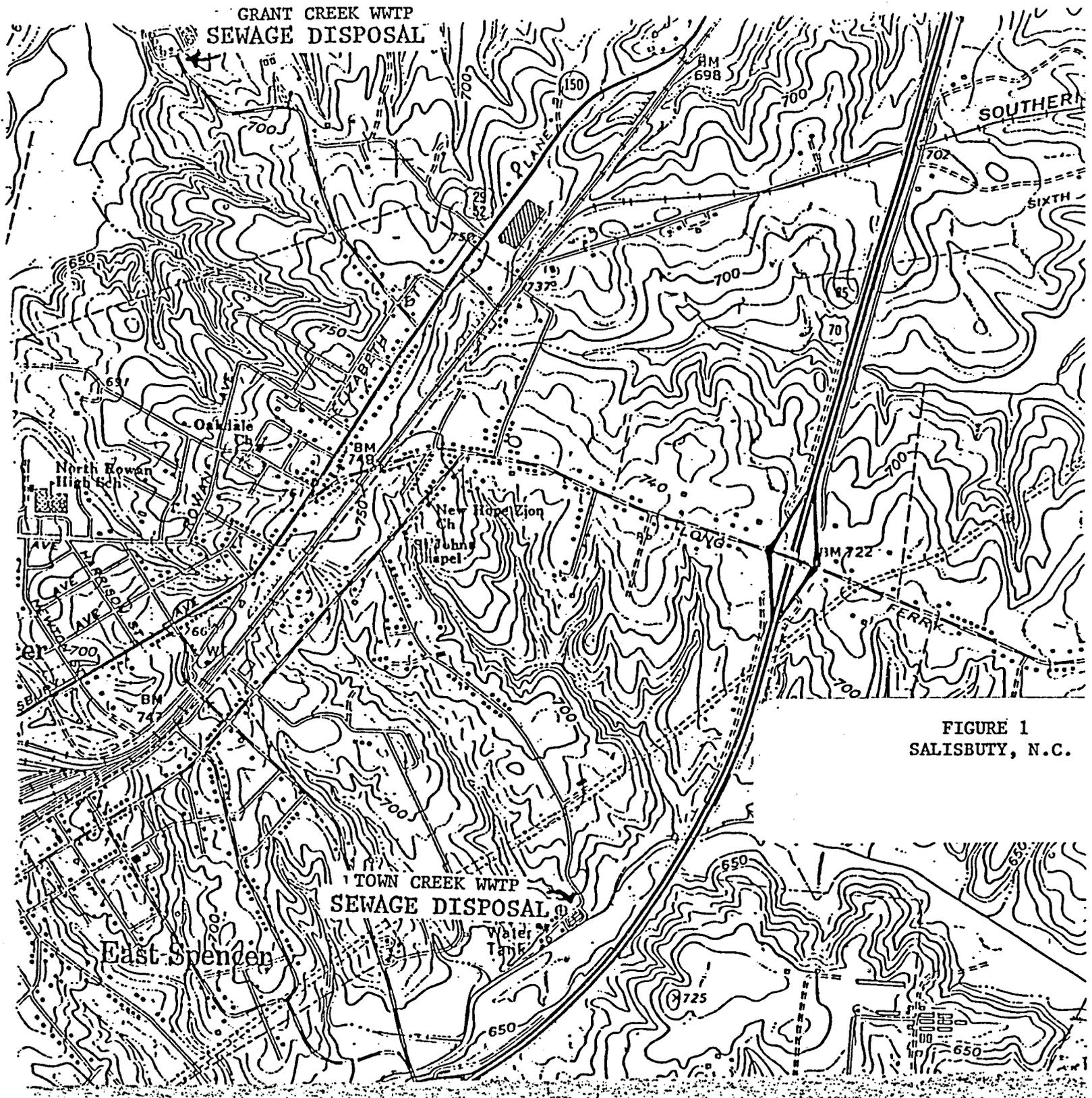


FIGURE 1
SALISBURY, N.C.

Figure 2
Plat
Town Creek WWP
Salisbury, N.C.

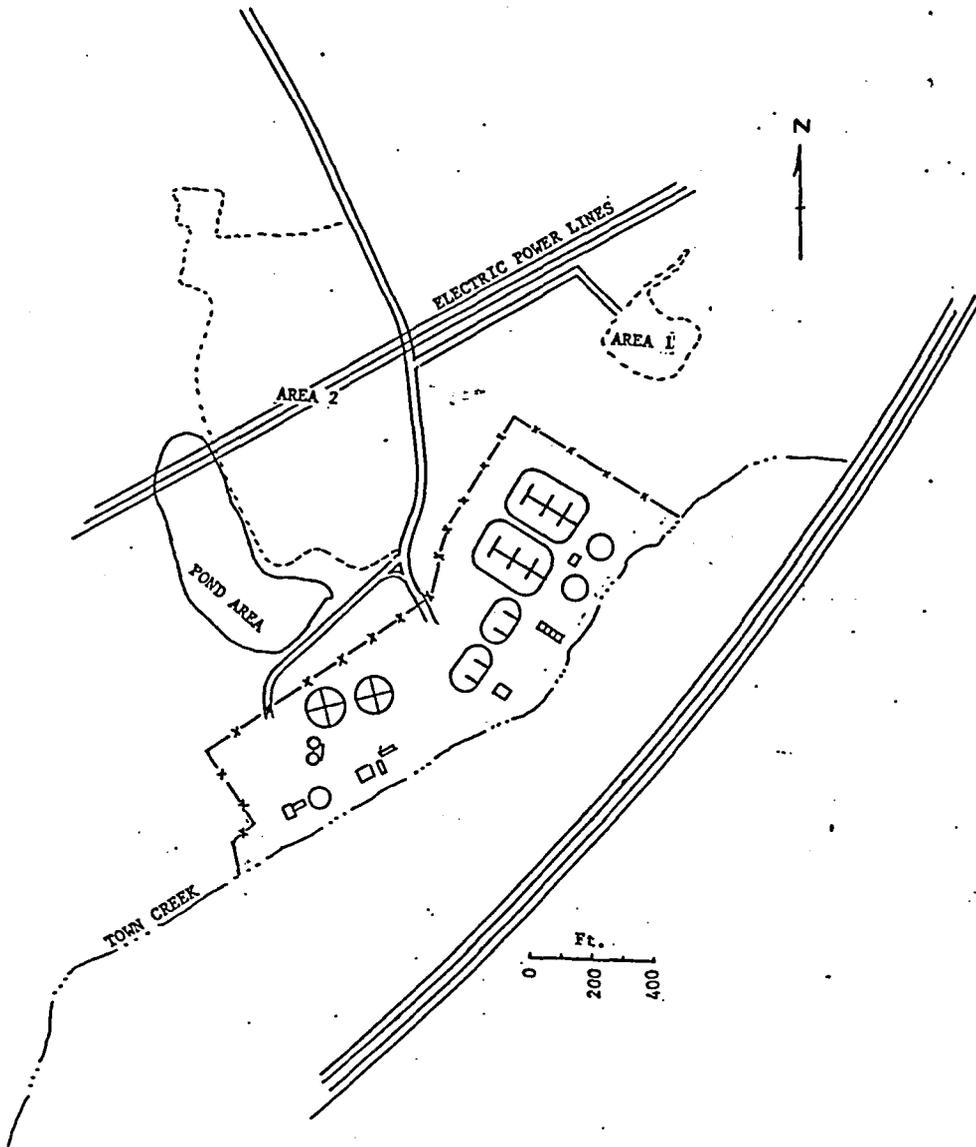
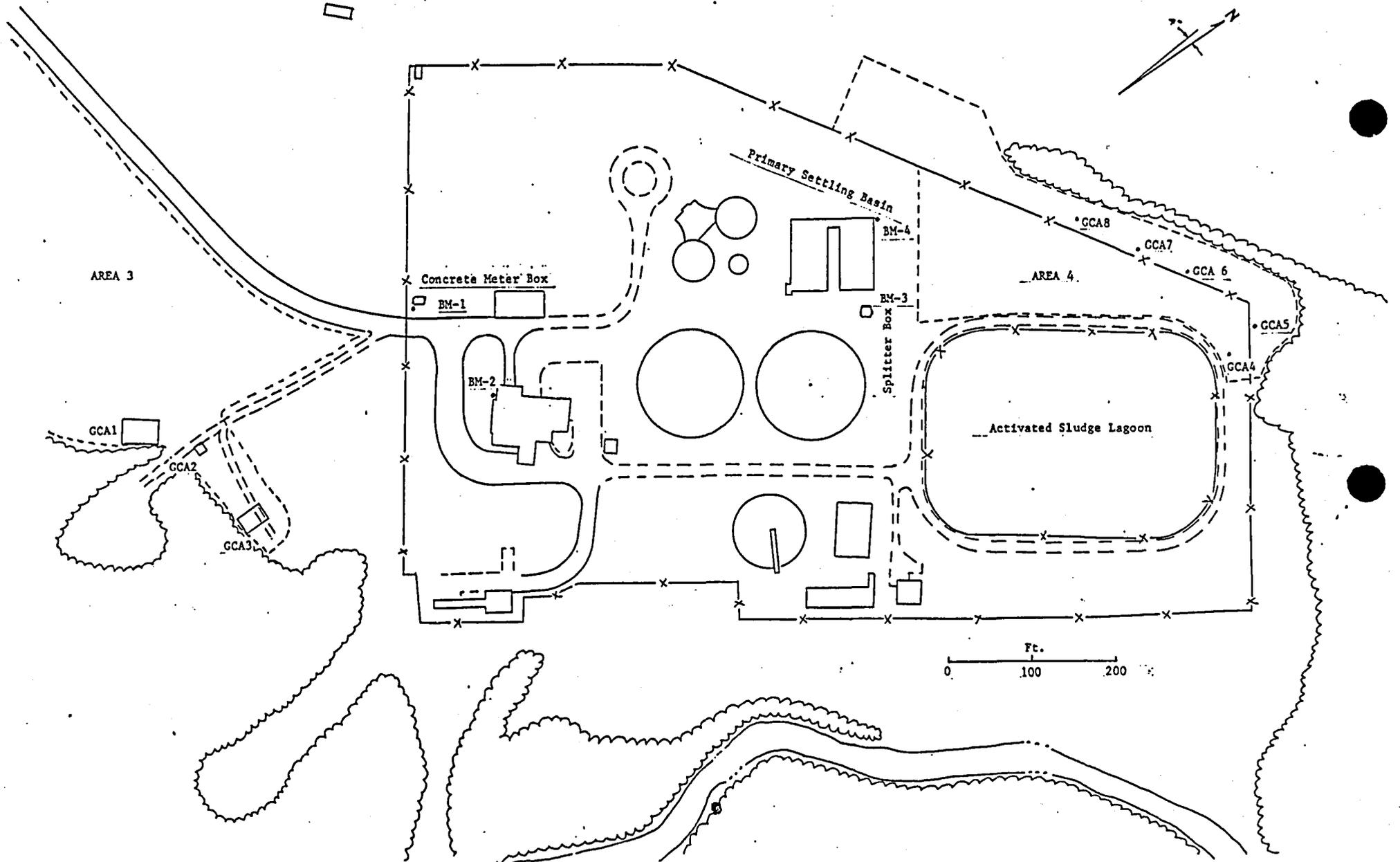


Figure 3
Grant Creek WWP
Salisbury, N.C.



APPENDIX A

TABLE 1
SURVEYING NOTES FOR GCA-1

Station	Horizontal Angle	Distance (Feet)	Conductivity (mmhos/m)
BM1 (Bearing N 23°45'E)	0° 00' 00"	142.54	
BM2	32° 11' 48"	238.40	
GCA-1			
3	168°42'24"	205.42	23.0
8	166°46'24"	211.74	26.0
13	164°51'00"	218.25	<0 (Peg)
12	163°18'06"	210.86	19.5
11	161°38'31"	195.22	21.0
6	163°52'24"	189.95	24.0
1	166°30'12"	197.77	24.5
2	168°04'00"	197.77	24.5
7	165°31'30"	202.35	24.0
17	161°01'30"	213.88	17.0
16	159°21'00"	206.58	19.5
18	162°13'42"	222.34	18.5
19	163°50'06"	230.80	19.0
20	165°04'18"	239.48	15.0
15	167°08'42"	234.10	26.0
14	166°00'48"	225.54	12.5
9	168°11'48"	221.64	27.5
10	169°27'00"	229.38	24.5
5	171°50'54"	225.26	23.5
4	170°53'00"	215.96	24.0

TABLE 2
SURVEYING NOTES FOR GCA-2 and GCA-3

Station	Horizontal ¹ Angle	Distance (Feet)	Conductivity (mmhos/m)	
GCA-2				
1	149°34'33"	168.36	21.5	
2	149°42'00"	173.70	15.0	
3	149°53'18"	179.80	12.5	NS
4	147°44'06"	168.80	21.0	
5	147°54'48"	174.68	14.0	NS 5.0 EW
6	148°14'24"	180.24	13.5	
7	145°56'48"	169.64	19.0	
8	146°09'06"	175.42	14.0	
9	146°46'48"	180.86	13.0	16.0 EW
GCA-3				
1	120°21'18"	197.40	13.0	
2	121°46'00"	205.26	10.5	NS 12.0EW
3	123°23'09"	214.60	12.5	
4	125°02'18"	223.06	11.0	
5	117°49'00"	204.52	13.0	NS 15.0EW
6	119°39'42"	212.46	0	NS 4.0EW
7	121°14'12"	220.74	0	
8	122°40'12"	229.24	11.0	
9	115°30'42"	211.92	14.0	
10	117°31'36"	219.66	12.5	NS 11.0EW
11	119°18'48"	227.14	12.5	NW 5.0EW
12	120°54'18"	235.50	11.0	

1) Instrument at same location as was used for GCA-1.

TABLE 3
SURVEYING NOTES ON GCA-4 THROUGH GCA-5

Station	Horizontal Angle	Distance (feet)
BM3 (Bearing S240°W)	0°00'00"	179.16
BM4	29°49'54"	194.10
GCA-4	220°45'45"	257.78
GCA-5	212°10'18"	272.78
GCA-6	201°07'36"	182.08
GCA-7	190°23'30"	123.74
GCA-8	153°53'54"	70.78



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

18 December 1984

Ms. Denise Bland
EPA N.C. 3012 Project Officer
Air & Hazardous Material Division
345 Courtland Street, N.E.
Atlanta, Ga. 30365

Re: Preliminary Assessment Reports
Transmittal Letter

Southern Resin Thomasville, NC 27360	NC D077821296
Sulzer-Ruti, Inc. Grover, NC 28073	NC D980558803
Singer Company Black Mountain, NC 28711	NC D083673681
Borden Chemical/Smith Douglas Kinston, NC 28501	NC D001725464
Elmer Catch Pond Kinston, NC 28501	NC D040051443
CF Industries Winton, NC 27910	NC D065288847
Weathersfield Place Raleigh, NC 27609	NC D980843106
National Starch and Chemical Corporation Salisbury, NC	NC D991278953
Town Creek Regional Waste Water Treatment Plant Salisbury, NC	NC D980843528
Grant Creek Regional Waste Water Treatment Plant Salisbury, NC	NC D980843460

Dear Ms. Bland:

Enclosed please find the Preliminary Assessment reports for the subject sites. Each priority assignment is based on our review of available data.

Ms. Denise Bland
20 December 1984
Page 2

Southern Resin
1510 Denton Road
Thomasville, NC 27360

NC D077821296
Davidson County

Southern Resin notified that the previous owner, Ashland Chemical buried 10 to 20,000 pounds of urea-formaldehyde resins on-site from 1960 through 1964. Laboratory analyses of groundwater from a 4 inch PVC monitoring well showed 65 ppb (micrograms/liter) phenol in January 1983 and 6 ppb phenol in April 1983. According to Southern Resin officials, no phenolic formaldehyde resins were buried and phenol levels are due to drilling equipment contamination. Formaldehyde has not been detected.

Recommendations include the installation of a carbon steel well and annual monitoring by the company. A low priority has been assigned.

Sulzer-Ruti, Inc.
Highway 29 North
Grover, NC 28073

NC D980558803
Cleveland County

Sulzer-Ruti, Inc., began operations in 1982; all hazardous wastes are regulated under RCRA. Prior to April 1983, Sulzer-Ruti was known as Sulzer Brothers, Inc. Sulzer Brothers, Inc. should be changed to Sulzer-Ruti, Inc., and placed on the inactive ERRIS list. No further action is recommended.

Singer Company
Highway 70
Black Mountain, NC 28711

NC D083673681
Buncombe County

The Singer Company is an active RCRA facility that began operations in 1955. According to the Safety, Health and Environmental Control Supervisor for Singer, extensive interviews of employees and a review of company records shows that no waste disposal has occurred on-site. No further action is recommended.

Smith Douglas Borden
Chemical Division
Highway 11 North
Kinston, NC 28501

NC D001725464
Lenoir County

When Borden Chemical submitted a RCRA Part A permit showing the location of an on-site surface impoundment, NC RCRA personnel began working with the company on a closure plan. The closure plan has been reviewed by the State in accordance with Sections 265.10 through 265.20 of RCRA. Borden has agreed to meet the State toxicologist's recommended groundwater clean-up concentrations. Follow-up under RCRA closure regulations is anticipated; no further action is recommended under CERCLA or RCRA 3012.

Ms. Denise Bland
20 December 1984
Page 3

Elmer Catch Pond
Highway 11 North
Kinston, NC 28501

NC D040051443
Lenoir County

The Elmer Catch Pond is also known as Elmer-33 and as the surface impoundment at Smith Douglas/Borden Chemical Division (NC D001725464). The

Elmer Catch Pond is a duplication for the Borden Chemical site (NC D001725464). No further action is recommended under CERCLA or RCRA 3012.

CF Industries
North of Route 45
Winton, NC 27910

NC D065288847
Hertford County

CF Industries operated a plant on the Chowan River from 1968 through 1982. According to NC DHR personnel, chromium contaminated water was discharged in a ditch on-site; chromium levels have reached 25 ppm. A slurry wall which was constructed to prevent nitrates from leaching off-site surrounds the former plant. A medium priority is recommended. An EPA Field Investigative Team Site Inspection is scheduled for 1985.

Weathersfield Place
774 Weathergreen Drive
Raleigh, NC 27609

NC D980843106
Wake County

Weathersfield Place was added to the ERRIS list on 26 October 1984. A residential water sample from the Raleigh city water supply line showed 1 ppb benzene, 12 ppb toluene and 9 ppb xylene. A high priority for a site inspection was assigned. A site inspection was conducted on 29 October 1984 and the site inspection file has been finalized and forwarded to EPA Regional IV.

National Starch and Chemical
Chemical Corporation
Cedar Springs Road
Salisbury, NC 28144

NC D991278953
Rowan County

National Starch and Chemical Corporation notified that 350,000 gallons of solvents were dumped in trenches on-site from 1971 through 1978. According to the Rowan County Health Department Director, "There is a definite possibility of well water contamination" based on the proximity of wells to the plant. A high priority was assigned and a site inspection was conducted on 12 October 1984. The site inspection file has been finalized and transmitted to EPA Region IV.

Ms. Denise Bland
20 December 1984
Page 4

Town Creek Regional Waste
Water Treatment Plant
Heiligtown Road
Salisbury, NC 28144

NC D980843528
Rowan County

Grant Creek Regional Waste
Water Treatment Plant
Cruse Road
Salisbury, NC 28144

NC D980843460
Rowan County

The City of Salisbury has received reports that National Starch and Chemical Corporation (NC D991278953) was allowed to dump waste solvents at the waste water treatment plants during the late 1960's and early 1970's. The waste water treatment plants were added to the ERRIS list in October 1984. A low priority was assigned to both sites. Site inspections were conducted by N.C. Solid and Hazardous Waste personnel on 9 and 10 October 1984.

On 17 December 1984, each of the subject sites was reviewed by N.C. Department of Human Resources Senior Environmental Engineer, William Meyer; RCRA 3012 personnel; and the following representatives from the N.C. Department of Natural Resources and Community Development, Division of Environmental Management: Lee Laymon (Groundwater Section), Howard Bryant (Water Quality Section), and Glen Ross (Air Quality Section).

If you have any questions, please call me at (919) 733-2178.

Sincerely,

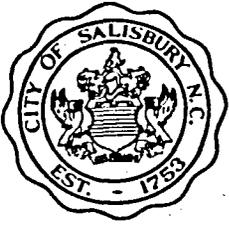
Lee Crosby

Lee Crosby, Chemist

Solid and Hazardous Waste Management Branch
Environmental Health Section

LC/lw/1681A
Enclosure

Lee



City of Salisbury

North Carolina

November 21, 1984



Mr. Walton Jones
US EPA Region IV
Sites Notification
Atlanta, Ga. 30308

Subject: US EPA Notification of Hazardous Waste Site Form (8900-1)
Grant Creek and Town Creek Wastewater Treatment Plants

Dear Mr. Walton:

Enclosed are two copies of EPA form 8900-1 which have been filled out to the best of our knowledge. The N.C. Division of Health Services, Solids and Hazardous Waste Management Branch, Environmental Health Section requested that we complete the forms.

The City of Salisbury has, since becoming aware of potential hazardous waste burial sites located at our wastewater treatment plants, contacted the Solids and Hazardous Waste Management Branch of the State Division of Health Services which conducted a site survey along with some limited sampling and testing of wells. No evidence of hazardous wastes or contamination was uncovered.

Recently on November 14 thru 16, EPA's monitoring/response team visited both sites and conducted a much more extensive survey of potential burial and disposal sites. No samples were taken and we await further word on whether or not additional information needs to be collected or actual exploration and sampling will be conducted under EPA or State supervision.

The City of Salisbury wants to determine if any actual dump or potential health hazard exists. We will continue to cooperate in every way.

If any additional information is required please contact us.

Sincerely,

John C. Vest, P.E.
Director of Public Works

JCV/pbr

Enclosures

P. O. Box 479 Salisbury, North Carolina 28145-0479



The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 PL 96-510 (commonly known as Superfund) mandates in Section 103(c) that certain persons notify the U.S. Environmental Protection Agency (EPA) by June 9, 1981 of the existence of sites where hazardous wastes from industries, businesses, governments, hospitals, and other sources are stored, treated, or disposed of.

Persons who believe they are required to notify have requested that EPA develop and distribute forms and accompanying guidance material in order that respondents can more easily comply with the new law. This in turn, will ensure that information submitted to EPA will be both consistent and useful.

Those required to notify must inform EPA that the site exists and provide details on its location, the amount and type of any hazardous wastes to be found there, and any known, suspected or likely releases of such wastes from the site. All of this information can be provided by completing the enclosed EPA Form 8900-1, Notification of Hazardous Waste Site. The notification form should be mailed to the EPA Regional Office serving the State in which the site is located by June 9, 1981.

The enclosed packet also includes the following:

- General Information
- A list of EPA Region mailing addresses and information telephone numbers
- Instructions for filling out the form

Receipt of this packet does not necessarily mean that you are required to notify. For example, certain locations (such as gasoline service stations and dry cleaning plants) which accumulated hazardous wastes only as a result of minor leakage or spillage that occurred in the course of normal operations are not expected to notify. To determine if you must notify please read the General Information portion of the notification packet.

EPA believes that those legally required to notify may not be able to identify every hazardous waste site. Therefore, we encourage the general public to fill out the notification form if they know of sites which otherwise might not be reported. This is most applicable to sites that are abandoned or where midnight dumping has occurred and where government investigators are not likely to know of the site.

These forms, along with other efforts EPA has underway, should help to compile a national inventory of hazardous waste sites. With this inventory, EPA and State and local governments can do a better job of remedying the problems created by uncontrolled hazardous waste disposal. If you have any questions regarding the notification process, please contact the EPA Region serving the State in which the site is located. We thank you for your cooperation.

Sincerely Yours,

A handwritten signature in cursive script that reads "Walter C. Barber".

Acting Administrator
Environmental Protection Agency

General Information

The primary purpose of this notification program is to locate hazardous waste sites which treated, stored, or disposed of hazardous waste in the past and at which hazardous waste is still present. The most important information you can provide to EPA is the existence of a hazardous waste site and its location. For purposes of describing the hazardous waste to be found at a site, the quantities of such waste and the type of activity at a site, EPA is not requiring that you painstakingly document the information submitted. This information may be based on your knowledge, belief, recollection or reasonably available records.

Who Must Notify

Section 103(c) of Superfund requires that, unless exempted, the following must notify EPA:

- Any person who presently owns or operates a site where there are facilities that store, treat, or dispose of hazardous wastes.
- Any person who, at the time of disposal, owned or operated a site where there are facilities that store, treat, or dispose of hazardous wastes.
- Any person who accepted hazardous wastes for transport and selected a site where there are facilities that store, treat, or dispose of hazardous wastes.

Persons required to notify include individuals and private, public, and government entities.

Who Need Not Notify

1. Section 3010 of the Resource Conservation and Recovery Act (RCRA) requires any person who generates or transports hazardous wastes or who owns or operates a facility that treats, stores, or disposes of hazardous wastes to notify EPA of such activities. For purposes of this notification any person who notified under Section 3010 for one or more treatment, storage, or disposal facilities does not have to notify EPA again of those specific facilities. However, notification is required for facilities not previously reported under Section 3010 that are on or contiguous to sites reported under Section 3010.

2. A person does not have to notify of facilities that have qualified for Interim Status under RCRA.

3. Facilities at which less than 55 gallons (or 7.4 cubic feet) of hazardous wastes have been disposed are not subject to this notification requirement.

4. Locations where hazardous waste accumulated only as a result of minor leakage or spillage that occurred in the course of normal operations are not considered hazardous waste sites for purposes of this notification unless such accumulation may pose significant risk to human health and the environment.

5. Municipal landfills, town dumps and other facilities that receive household wastes only, are not subject to notification. Municipal landfills that received hazardous wastes, especially wastes in segregated shipments from industrial services, would be expected to notify.

6. Facilities at which hazardous wastes had been treated or stored and from which all those hazardous wastes have been removed so as to eliminate any risk to human health and the environment are not subject to this notification requirement.

7. The application of pesticide products registered under the Federal Insecticide, Fungicide and Rodenticide Act and the

handling and storage of such products by agricultural producers are not subject to this notification requirement. Sites at which pesticides have been disposed are subject to the notification requirement of Section 103(c). Farmers who have disposed of waste pesticide in a manner consistent with the disposal instruction on the pesticide label are not subject to this notification requirement.

8. Stoppage in transport of hazardous waste which is temporary, incidental to the transportation, or at the ordinary operating convenience of a common or contract carrier is not, for purposes of this notification, storage.

9. Certain facilities which handle hazardous wastes pursuant to RCRA are not subject to this notification requirement. They include:

- Product or raw material storage tanks and transportation vessels or vehicles which are presently in use are not considered hazardous waste storage facilities, even though hazardous waste may be generated in such units in the course of their use. This does not extend, however, to units which are no longer in use and in which hazardous waste remain.

- Short-term accumulation (90 days or less) of hazardous wastes by generators subject to RCRA regulations is not, for purposes of this notification, storage.

- Totally enclosed treatment facilities.

- Wastewater treatment tanks and neutralization tanks.

Wastes Subject To Notification

Wastes subject to notification under Superfund are listed or identified as hazardous in the regulations issued under Section 3001 of RCRA. You are not expected to sample wastes to determine if they are hazardous. Rather, you can use any knowledge you have of the wastes, including the materials or processes involved or the types of facilities that generate the wastes. You should notify about sites if you believe the wastes may be hazardous due to barrel labels, odors, health effects, or other indicators.

Polychlorinated biphenyls (PCBs) are not currently included within the RCRA Section 3001 regulations but are regulated under the Toxic Substances Control Act (TSCA). Consequently, notification of PCB treatment, storage, or disposal sites is not mandatory. However, in order to make this notification more comprehensive, EPA is requesting a voluntary notification of sites containing PCBs as part of this notification program.

Wastes Not Subject To Notification

The following wastes are not subject to notification under Section 103(c) of Superfund.

1. Solid wastes listed below not presently regulated as "hazardous waste" under RCRA.

- "Household waste", defined as any waste material (including garbage, trash, and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels, and motels):

- Solid wastes generated by any of the following and returned to the soil as fertilizers:

- The growing and harvesting of agricultural crops.

- The raising of animals, including animal manure.

- Mining overburden returned to the mine site.



Notification of Hazardous Waste Site

United States
Environmental Protection
Agency
Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must be mailed by June 9, 1981.

Please type or print in ink. If you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

A Person Required to Notify:

Enter the name and address of the person or organization required to notify.

Name CITY OF SALISBURY

Street P. O. BOX 479

City SALISBURY

State N. C. Zip Code 28144

B Site Location:

Enter the common name (if known) and actual location of the site.

Name of Site TOWN CREEK AND GRANT CREEK REGIONAL WASTEWATER

Street TREATMENT PLANTS
OUTSIDE OF EAST SPENCER AND SPENCER, N. C.

City _____ County ROWAN State N. C. Zip Code _____

C Person to Contact:

Enter the name, title (if applicable), and business telephone number of the person to contact regarding information submitted on this form.

Name (Last, First and Title) MATHIAS, HARVEY R., CITY MANAGER

Phone (704) 637-2200, EXT. 200

D Dates of Waste Handling:

Enter the years that you estimate waste treatment, storage, or disposal began and ended at the site.

From (Year) 1967 To (Year) 1973

E Waste Type: Choose the option you prefer to complete

Option 1: Select general waste types and source categories. If you do not know the general waste types or sources, you are encouraged to describe the site in Item 1—Description of Site.

General Type of Waste:

Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.

- 1. Organics
- 2. Inorganics
- 3. Solvents
- 4. Pesticides
- 5. Heavy metals
- 6. Acids
- 7. Bases
- 8. PCBs
- 9. Mixed Municipal Waste
- 10. Unknown
- 11. Other (Specify)

Source of Waste:

Place an X in the appropriate boxes.

- 1. Mining
- 2. Construction
- 3. Textiles
- 4. Fertilizer
- 5. Paper/Printing
- 6. Leather Tanning
- 7. Iron/Steel Foundry
- 8. Chemical, General
- 9. Plating/Polishing
- 10. Military/Ammunition
- 11. Electrical Conductors
- 12. Transformers
- 13. Utility Companies
- 14. Sanitary/Refuse
- 15. Photofinish
- 16. Lab/Hospital
- 17. Unknown
- 18. Other (Specify)

Option 2: This option is available to persons familiar with the Resource Conservation and Recovery Act (RCRA) Section 3001 regulations (40 CFR Part 261).

Specific Type of Waste:

EPA has assigned a four-digit number to each hazardous waste listed in the regulations under Section 3001 of RCRA. Enter the appropriate four-digit number in the boxes provided. A copy of the list of hazardous wastes and codes can be obtained by contacting the EPA Region serving the State in which the site is located.

Definitions

The following definitions may assist you in completing the notification form.

Act: the "Comprehensive Environmental Response, Compensation, and Liability Act of 1980" (Superfund).

Administrator: the Administrator of the United States Environmental Protection Agency.

Disposal: the discharge, deposit, injection, dumping, spilling, leaking, or placing of any solid waste or hazardous waste into or on any land or water so that such solid waste or hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.

Environment: (A) the navigable waters, the waters of the contiguous zone, and the ocean waters of which the natural resources are under the exclusive management authority of the United States under the Fishery Conservation and Management Act of 1976, and (B) any other surface water, ground water, drinking water supply, land surface or subsurface strata, or ambient air within the United States or under the jurisdiction of the United States.

Facility: (A) any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle rolling stock, or aircraft, or (B) any site or area where a hazardous waste has been deposited, stored, disposed of, or placed, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel (for purposes of this notification, (A) is most applicable).

Hazardous Waste: for purposes of this notification requirement means any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of RCRA (but not including any waste the regulation of which under RCRA has been suspended by Act of Congress).

Owner or Operator: (A) in the case of an onshore facility, any person owning or operating such facility, and (B) in the case of any abandoned facility, any person who owned, operated, or otherwise controlled activities at such facility immediately prior to such abandonment.

Person: an individual, firm, corporation, association, partnership, consortium, joint

venture, commercial entity, United States Government, State, municipality, commission, political subdivision of a State or any interstate body.

Release: any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing, into the environment.

Site: the location at which hazardous wastes were stored, treated, or disposed of by persons required to notify under Section 103(c). This includes all contiguous land, structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous wastes. A site may consist of several treatment, storage, or disposal facilities.

Storage: the holding of hazardous waste for a temporary period at the end of which the hazardous waste is treated, stored, or disposed elsewhere.

Transport or Transportation: the movement of a hazardous substance by any mode, including pipeline (as defined in the Pipeline Safety Act), and in the case of a hazardous substance which has been accepted for transportation by a common or contract carrier, the term "transport" or "transportation" shall include any stoppage in transit which is

temporary, incidental to the transportation movement, and at the ordinary operating convenience of a common or contract carrier, and any such stoppage shall be considered as continuity of movement and not as the storage of a hazardous waste.

Treatment: any method, technique, or process, including neutralization, designed to change the physical, chemical or biological character or composition of any hazardous waste to neutralize such waste, or so as to recover energy or material resources from the waste, or to render such waste non hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, or storage, or reduced in volume. Such term includes any activity or processing designed to change the physical form or chemical composition of hazardous waste so as to render it nonhazardous.

Waste Quantity: the actual or estimated size of the area affected (such as square feet or acres) and/or amount of waste (such as gallons or cubic feet) for the various treatment, storage or disposal facilities used at a site.

Waste Type: the type of hazardous substance that has been treated, stored, or disposed at a site.



Official Business
Penalty for Private Use
\$300

Postage and
Fees Paid
Environmental
Protection
Agency
EPA 335



United States
Environmental Protection
Agency

Office of Hazardous
Emergency Response WH-548
Washington DC 20460

F Waste Quantity:

Place an X in the appropriate boxes to indicate the facility types found at the site.

In the "total facility waste amount" space give the estimated combined quantity (volume) of hazardous wastes at the site using cubic feet or gallons.

In the "total facility area" space, give the estimated area size which the facilities occupy using square feet or acres.

Facility Type

- 1. Piles
- 2. Land Treatment
- 3. Landfill
- 4. Tanks
- 5. Impoundment
- 6. Underground Injection
- 7. Drums, Above Ground
- 8. Drums, Below Ground
- 9. Other (Specify) UNKNOWN

Total Facility Waste Amount

cubic feet UNKNOWN

gallons _____

Total Facility Area

square feet UNKNOWN

acres _____

G Known, Suspected or Likely Releases to the Environment:

Place an X in the appropriate boxes to indicate any known, suspected, or likely releases of wastes to the environment.

- Known
- Suspected
- Likely
- None

Note: Items Hand I are optional. Completing these items will assist EPA and State and local governments in locating and assessing hazardous waste sites. Although completing the items is not required, you are encouraged to do so.

H Sketch Map of Site Location: (Optional)

Sketch a map showing streets, highways, routes or other prominent landmarks near the site. Place an X on the map to indicate the site location. Draw an arrow showing the direction north. You may substitute a publishing map showing the site location.

EPA MONITORING/RESPONSE PERSONNEL PROVIDED WITH THIS INFORMATION PREVIOUSLY

I Description of Site: (Optional)

Describe the history and present conditions of the site. Give directions to the site and describe any nearby wells, springs, lakes, or housing. Include such information as how waste was disposed and where the waste came from. Provide any other information or comments which may help describe the site conditions.

ALLEGED DUMPING OF CHEMICAL MANUFACTURING WASTE ON DEDICATED MUNICIPAL WASTEWATER TREATMENT PLANT SLUDGE DISPOSAL SITE DURING THE APPROXIMATE PERIOD 1967-1973. ALLEGED DRUMS BURIED IN AT LEAST ONE SITE. AT OTHER SITES, ALLEGED DUMPING OCCURRED DIRECTLY INTO PITS OPENED FOR THE PURPOSE.

J Signature and Title:

The person or authorized representative (such as plant managers, superintendents, trustees or attorneys) of persons required to notify must sign the form and provide a mailing address (if different than address in item A). For other persons providing notification, the signature is optional. Check the boxes which best describe the relationship to the site of the person required to notify. If you are not required to notify check "Other".

Name HARVEY R. MATHIAS

Street P. O. BOX 479

City SALISBURY State N.C. Zip Code 28144

Signature Harvey R. Mathias Date 11-19-84

- Owner, Present
- Owner, Past
- Transporter
- Operator, Present
- Operator, Past
- Other

- Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from combustion of coal or other fossil fuels.

- Drilling fluids, produced waters, and other wastes associated with the exploration, development, or production of crude oil, natural gas, or geothermal energy.

- Solid waste from extraction, beneficiation and processing of ores or minerals, including phosphate rock and overburden from the mining of uranium ore.

- Cement kiln dust waste.

2. Natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

3. Petroleum, including crude oil or any fraction thereof which is not specifically listed under RCRA.

Penalties

Any person convicted of knowingly failing to notify may be fined not more than \$10,000 or imprisoned for not more than 1 year, or both. In addition, violators shall not be entitled to the protections of the liability provisions of Section 107 of Superfund. Information received under Section 103(c) will not be

used against any person in any criminal case, except a prosecution for perjury or for giving a false statement.

What Information Should Be Filed

When filing a notification, you must indicate the site location, specify the amount and type of any hazardous wastes to be found there, and show any known, suspected, or likely releases of such wastes from the site. You can provide all this information by completing and mailing the enclosed EPA Form 8900-1, Notification of Hazardous Waste Site.

The 53 chemical companies who submitted extensive facility information in previous responses to a survey conducted by the House Interstate and Foreign Commerce Committee in 1979 ("Waste Disposal Site Survey Directory"—Committee Print 96-IFC 33 published October 1979), may choose to

- complete Form 8900-1, or

- submit to EPA the information provided to the House Committee, updating and supplementing it as necessary to provide the information requested in Form 8900-1.

How Many Forms Should Be Filed

You should provide one notification form per site, whether the site has one or more treatment, storage, or disposal facilities within its boundary (see facility and site definitions).

When to File

Envelopes must be postmarked no later than June 9, 1981.

Acknowledgement

EPA will send you a postcard acknowledging receipt of your notification.

Confidential Information

Industrial and commercial organizations may be concerned about public disclosure of information that they report. All information reported in a notification other than trade secrets can be disclosed to the public, according to the Freedom of Information Act and EPA Freedom of Information Regulations. Because notification information is very general, EPA believes that it is unlikely that information reported qualifies for protection from disclosure as trade secrets.

However, if you wish to claim confidentiality, print the word "confidential" on both sides of the Notification Form and any attachments. EPA

encourages you to substantiate your claim at the time of notification by providing written answers to each of the questions listed below. Otherwise EPA may send notice promptly on receipt of notification requesting substantiation within 15 working days.

1. Which portions of the information do you claim are entitled to confidential treatment?

2. How long do you want this information treated confidentially?

3. What measures have you taken to guard against undesired disclosures of the information to others?

4. To what extent has the information been disclosed to others, and what precautions have you taken in connection with those disclosures?

5. Has EPA or any other Federal Agency made a pertinent confidentiality determination? (If so, include a copy of this determination or reference to it, if available).

6. Will disclosure of the information be likely to substantially harm your competitive position? If so, what would the harm be, and why should it be viewed as substantial? What is the relationship between disclosure and the harm?

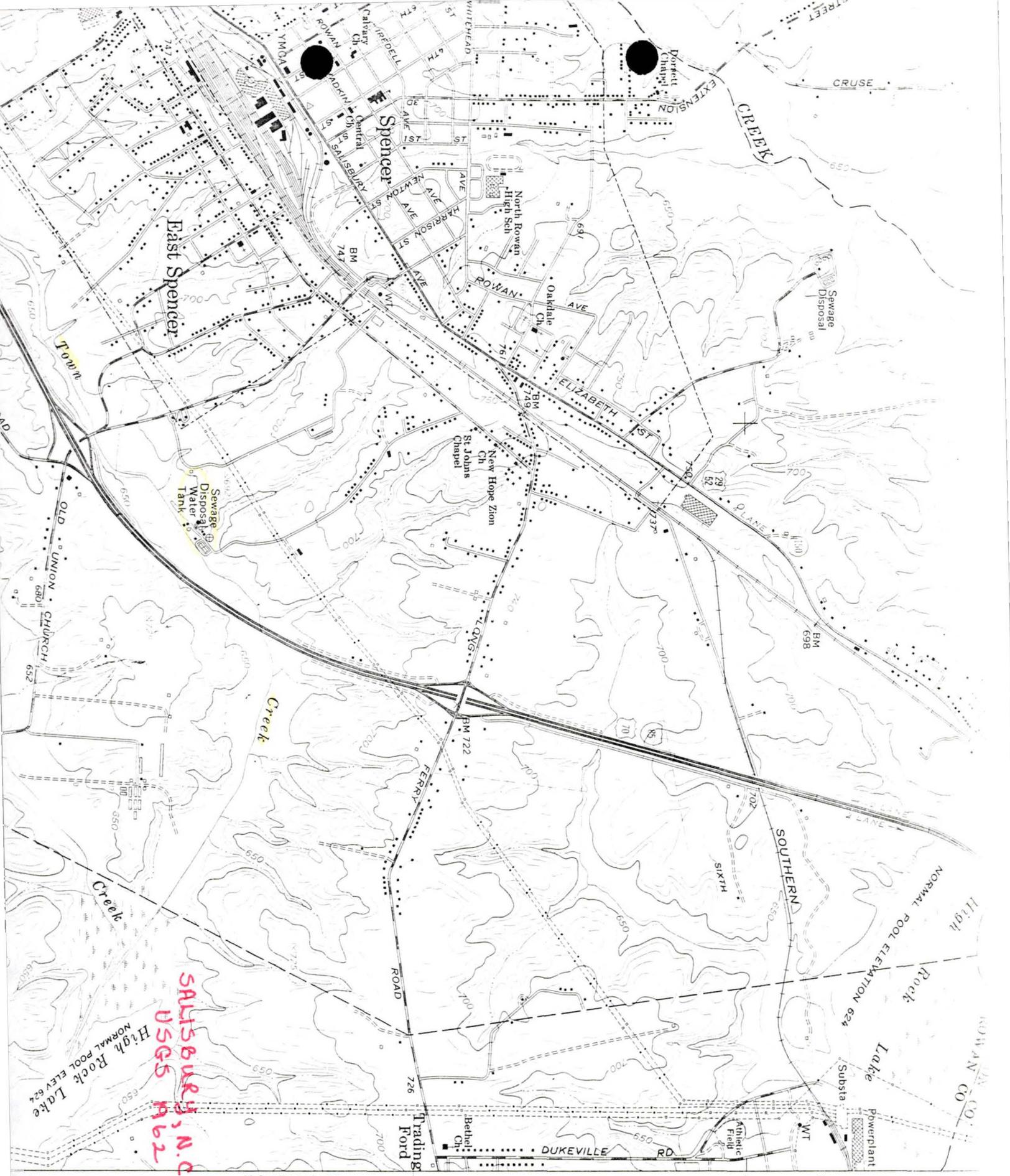
Where to File

EPA Region Address Area and Information Telephone Numbers

US EPA Region 1 Sites Notification Boston, MA 02203	617-223-0090 617-223-0214	Massachusetts Maine, Rhode Island Connecticut, New Hampshire, Vermont
US EPA Region 2 Sites Notification New York, NY 10007	212-264-1573	New Jersey, New York, Virgin Islands, Puerto Rico
US EPA Region 3 Sites Notification Philadelphia, PA 19106	215-597-8751	Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia
US EPA Region 4 Sites Notification Atlanta, GA 30308	404-881-2234	Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
US EPA Region 5 Sites Notification Chicago, ILL 60604	312-886-3500	Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin

EPA Region Address Area and Information Telephone Numbers

US EPA Region 6 Sites Notification Dallas, TX 75270	214-767-4075	Arkansas, Louisiana, New Mexico Oklahoma, Texas
US EPA Region 7 Sites Notification Kansas City, MO 64106	816-374-6864	Iowa, Kansas, Missouri, Nebraska
US EPA Region 8 Sites Notification Denver, CO 80295	800-332-3321 800-525-3022	Colorado Montana, North Dakota, South Dakota, Utah, Wyoming
US EPA Region 9 Sites Notification San Francisco, CA 94105	415-556-1407	Arizona, California, Hawaii, Nevada, Guam, American Samoa, Common- wealth of the Northern Marianas
US EPA Region 10 Sites Notification Seattle, WA 98101	800-732-9319 800-426-9947	Washington Alaska, Idaho, Oregon



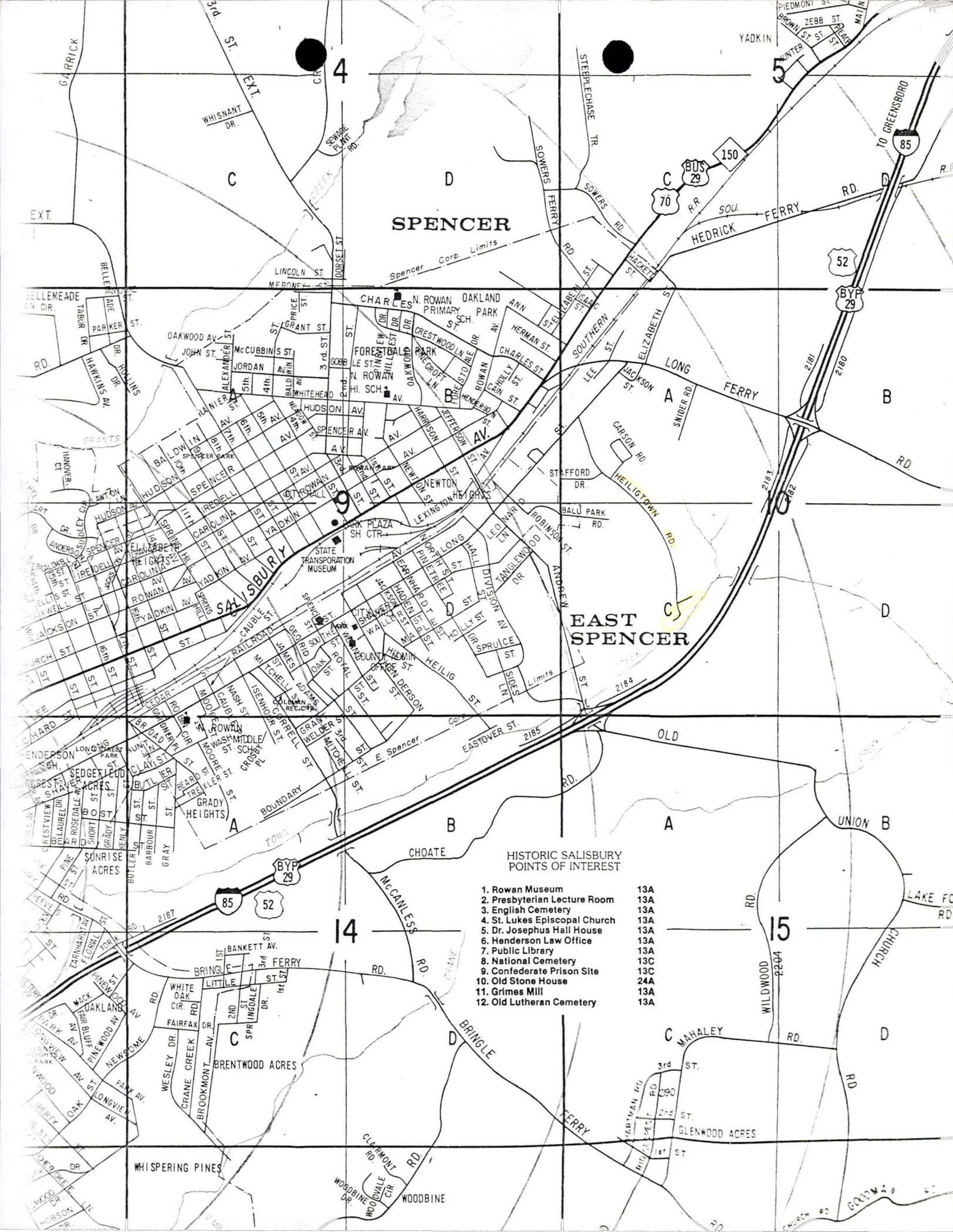
SALISBURY, N.C.
USGS 1962

N ↑

(SOUTHMONT)
4955 III NE

3948 3949 3950 3951 3952

42°30"

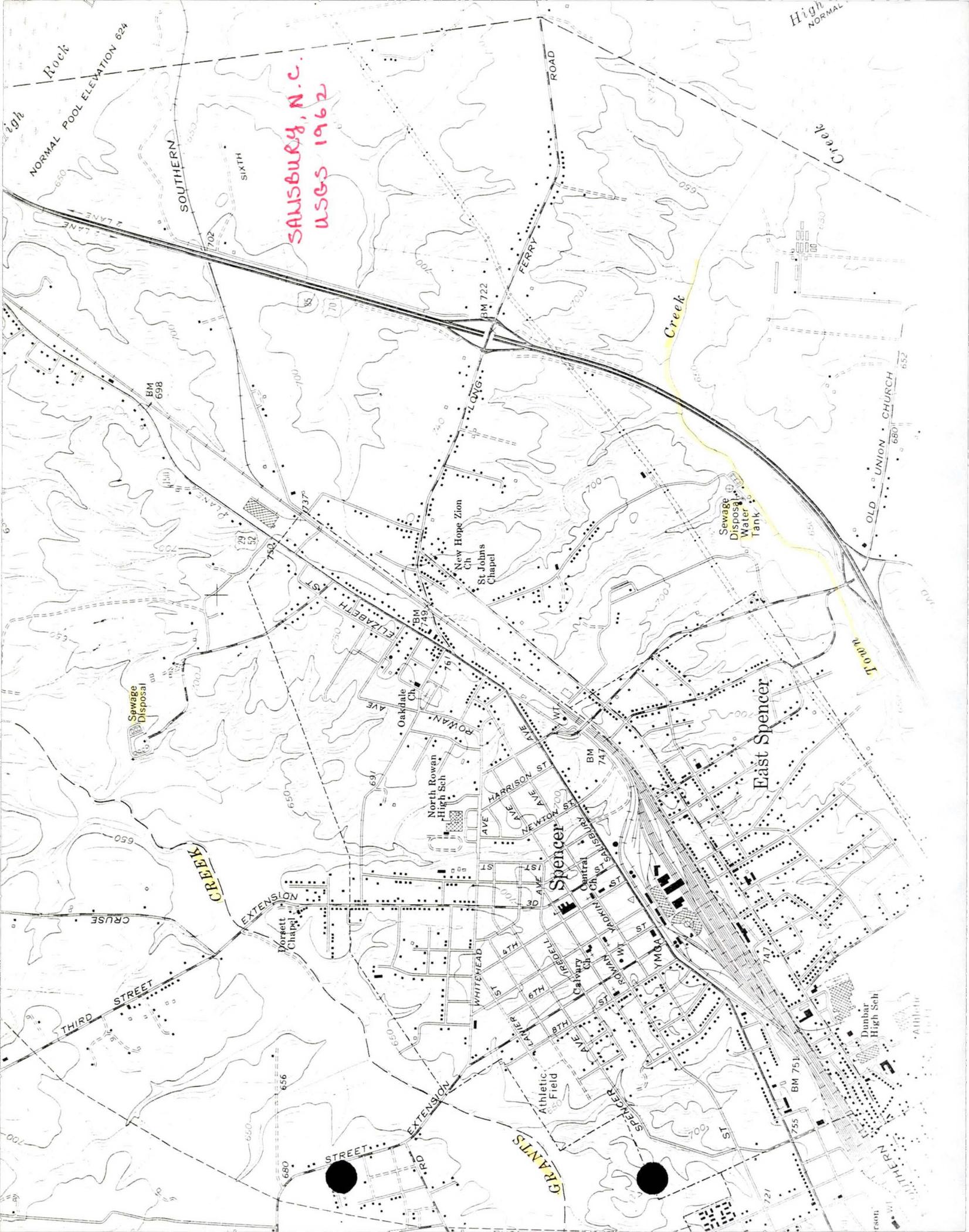


SPENCER

EAST SPENCER

HISTORIC SALISBURY POINTS OF INTEREST

- 1. Rowan Museum 13A
- 2. Presbyterian Lecture Room 13A
- 3. English Cemetery 13A
- 4. St. Lukes Episcopal Church 13A
- 5. Dr. Josephus Hall House 13A
- 6. Henderson Law Office 13A
- 7. Public Library 13A
- 8. National Cemetery 13C
- 9. Confederate Prison Site 13C
- 10. Old Stone House 24A
- 11. Grimes Mill 13A
- 12. Old Lutheran Cemetery 13A



SAUSBURY, N.C.
USGS 1962

East Spencer

Spencer

GRANT'S

CREEK

Creek

High
NORMAL

Rock

NORMAL POOL ELEVATION 624

SOUTHERN

SIXTH

FERRY ROAD

BM 722

BM 698

New Hope Zion
Ch
St Johns
Chapel

Sewage
Disposal
Water
Tank

OLD UNION CHURCH

Sewage
Disposal

BM 749

Oakdale Ch

North Rowan
High Sch

BM 747

Dorrett
Chapel

THIRD STREET

THIRD STREET EXTENSION

Athletic Field

Dunbar High Sch

BM 751

755

721

SOUTHERN

Athletic Field

Site Inspection Report

NC D980843528

Town Creek Regional Waste Water Treatment Plant

Heiligtown Road
Salisbury, North Carolina

November 7, 1984

D. Mark Durway, Geologist

North Carolina Department of Human Resources
Division of Health Services
Solid and Hazardous Waste Management Branch
RCRA 3012 Program

Summary

It has been reported by various former employees of the City of Salisbury that during the late 1960s, solvents and miscellaneous waste liquids from Proctor Chemical Company, Salisbury, N.C., were buried at various locations surrounding the Town Creek Waste Water Treatment Plant. It is unclear as to whether Proctor had authority to dispose of waste at these locations, which are on city property; and a point of interest is that Proctor never notified its actions under CERCLA or RCRA.

To date, three burial sites have been indicated, none of which have been confirmed due to our lack of the sophisticated equipment necessary for an in-depth subsurface investigation. The Lab Analysis appendix in this report indicates that while several of these locations have been sampled, contaminated material has yet to be found.

It is recommended that the Town Creek Waste Water Treatment Plant be further investigated.

Location

Town Creek Regional Waste Water Treatment Plant is located at the following address:

Heiligtown Road
Salisbury, Rowan County, NC 28144

Compass coordinates are:

35° 41' 00" N latitude
80° 24' 40" W longitude

(See Appendix A, Maps)

Site Layout

The aerial photo and USGS quad provide ample insight as to site layout and setting (Appendix A, Maps).

Site History

The City of Salisbury operates Town Creek Waste Water Treatment Plant, and uses the public property surrounding the facility to landfarm sludge. During the late 1960s, Proctor Chemical Company of Salisbury allegedly used the landfarming area north of the Waste Water Treatment Plant facility to dispose of solvents, and possibly other chemical wastes which they generated. Proctor Chemical Company never notified under CERCLA or RCRA that the Town Creek WWTP or surrounding area had been used by them to dispose of hazardous wastes. Proctor was liquidated in January 1983, and taken over by National Starch and Chemical Company.

The information gathered concerning specific incidents of burial at the WWTP facility and adjacent city property is that three sites are thought to have been used (Appendix A, Maps). At each site trenches were dug; some anonymous sources claim that drums were placed in these trenches and buried, while others indicate that liquids were poured directly into them. It appears that plant growth is partially inhibited at the northeastern-most alleged site.

Summary Trip Report

On October 9, 1984, our site inspection team met City of Salisbury officials at the Town Creek WWTP. We found little, if any, physical evidence that chemicals had been buried at the three alleged sites; and samples taken the following day from the upgradient monitoring well, and at a nearby creek downgradient from an alleged site, revealed no contamination.

It is concluded from the site visit that a more in-depth subsurface investigation, using more sophisticated equipment than was available to us, will be required in order to document the sites at Town Creek, and to determine what further action must be taken

The N.C. Solid and Hazardous Waste Management Branch site inspection team consisted of the following:

Bill Meyer, Environmental Engineer
Gary Babb, Geologist
Mark Durway, Geologist

Representing the City of Salisbury on site were:

Kelly Patton, Superintendent of Water and Waste Water
Treatment Plants

Sabrina Eury, Assistant and Operator Trainee

Environmental Setting

The topographic components at the Town Creek facility consist of the following: gently to moderately sloping country-side (overall average slope approximately 5° in a SSE direction, with a maximum of 13° and minimum approaching nil); a pond near the WWTP; and Town Creek and its few small tributaries.

Of particular interest to our party was the control topography might have on groundwater at the northeastern-most site; there, the alleged site lies steeply upgradient from a nearby creek (see Maps, USGS quad). Chemical analysis of water and sediment samples taken downstream, however, revealed no contamination (Appendix B, Lab Analysis, Field Samples No. 1585 and 1586).

Soil types vary from red clay to the more permeable, lithic- and organic-rich varieties which reflect the continuous weathering of local parent

rock and decomposition of vegetation. Bedrock in the NC Piedmont tends to be igneous or metamorphic, and often weathered at the surface (saprolite).

In general, geologic controls on groundwater in the NC Piedmont are as follows: Groundwater will move freely through most soil and saprolite, as such are is permeable and porous. Unweathered crystalline rock, on the contrary, facilitates groundwater movement and storage only where joints and fractures exist. At the Town Creek facility upgradient and downgradient wells have been drilled with water tables at approximately 16.0' and 9.5', respectively (Appendix C, Well Data). Drilled drinking water wells in the NC Piedmont, however, tend to range between 100' and 300' deep in order to assure constant supply and quality.

Rowan County receives an average rainfall of approximately 45"/yr., the seasonal fluctuation of which has a direct effect on the seasonal fluctuation of the water table.

The nearest residents to the Town Creek facility live approximately 0.3 miles north of, and upgradient from, the WWTP. There are in excess of 500 residents within a one-mile radius of the site.

Water supply for residents living near the WWTP is predominantly from private wells; however, persons within the city limits (Appendix A, map of city) are connected to a public supply.

Waste Types and Quantities

Lack of information regarding waste types, quantities, and disposal points has not facilitated our effort to properly evaluate the hazardous waste sites at Town Creek. Presently, three alleged sites and their approximate locations are known: however, confirmation that these are actual disposal sites will require future investigation using more sophisticated detection equipment than we have access to.

Disposal at the sites is said to have been in trenches, 6' to 8' deep. Liquid substances were poured directly into these trenches or buried in drums, according to witnesses; the trenches were then covered with dirt.

Proctor Chemical Company (now National Starch and Chemical Co.) generated, transported, and disposed of the chemicals at Town Creek. Based on their typical waste streams, chemicals assumed to have been buried are:

- Xylene
- Toluene
- Methyl ethyl ketone
- Methyl isobutyl ketone
- Acetone
- 1,2 - dichloroethane

Laboratory Data

Samples were taken at three locations, during our site inspection, and analyzed for organics and inorganics at the N.C. Division of Health Services

Laboratory in Raleigh, NC (Appendix B, Lab Analysis). They were as follows:

<u>Type</u>	<u>Location</u>	<u>Lab Results</u>
Groundwater	Upgradient monitoring well	No contamination
Stream	Near northeastern-most site	No contamination
Stream sediment	Near northeastern-most site	No contamination

A fourth sample was mailed to us by Kelly Patton, Superintendent of Water and WWTPs, City of Salisbury. The sample came from a trench which City of Salisbury officials excavated over an alleged site within the "Rag Field" on October 19, 1984. (This site is located in the southeastern-most corner of the "Rag Field". See Maps). The sample looked like green soil; it had no odor; and inorganic and organic chemical analysis at the State lab showed no contaminants (Appendix B). Perhaps the sample represented sludge from a past landfarming operation.

More samples need to be taken as soon as site locations are more clearly defined.

APPENDIX A

MAPS



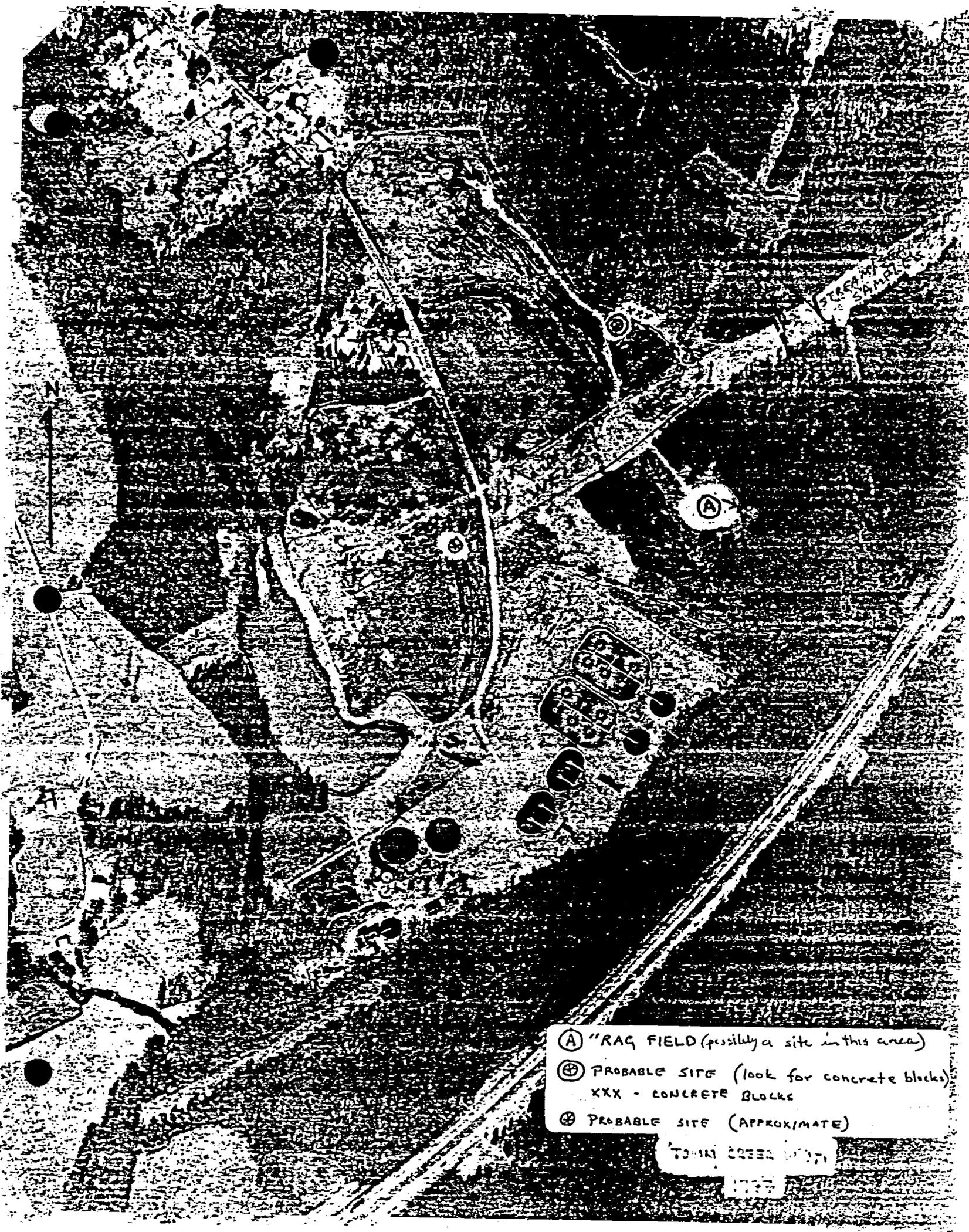
Ⓐ "RAG FIELD" - there is possibly a site in this area

ⓧ Probable site (look for concrete blocks) xxx - concrete blocks

ⓧ Probable site (approximate)

TOWN CREEK REGIONAL WWTP
 HELLTOWN RD.
 SALISBURY, NC 28144

USGS 7.5' QUAD



- Ⓐ "RAQ FIELD (possibly a site in this area)
- ⊕ PROBABLE SITE (look for concrete blocks)
XXX - CONCRETE BLOCKS
- ⊕ PROBABLE SITE (APPROXIMATE)

TOMMY CREEK

APPENDIX B

LAB ANALYSIS

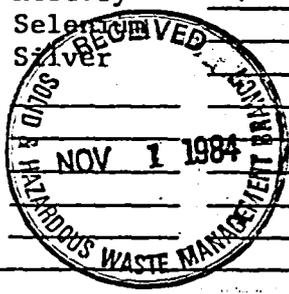
N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 80-000001002 X Field Sample Number 1609
 Name of Site Town Creek WWT Site Location Salisbury
 Collected By Bobb ID# 12 Date Collected 10/10/84 Time 2:00 PM
 Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater	Solid	<u>WELL TU</u>
<input type="checkbox"/> Surface Water	Liquid	
<input type="checkbox"/> Soil	Sludge	
<input type="checkbox"/> Other	Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Arsenic	—	<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Chloride	<u>2</u>
— Barium	—	<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input checked="" type="checkbox"/> Conductivity	<u>114 μ mhos</u>
— Cadmium	—	<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Copper	<u><0.05</u>
— Chromium	—	<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>
— Lead	—	<input checked="" type="checkbox"/> Lead	<u><0.23</u>	<input checked="" type="checkbox"/> Iron	<u>5.14</u>
— Mercury	—	<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>	<input checked="" type="checkbox"/> Manganese	<u>0.49</u>
— Selenium	—	<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input checked="" type="checkbox"/> Nitrate	<u>2.8</u>
— Silver	—	<input checked="" type="checkbox"/> Silver	<u><0.05</u>	<input checked="" type="checkbox"/> pH	<u>6.4</u>
		<input checked="" type="checkbox"/> Sb	<u><0.05</u>	<input checked="" type="checkbox"/> Sulfates	<u>5</u>
				<input checked="" type="checkbox"/> TDS	<u>155</u>
				<input checked="" type="checkbox"/> Zinc	<u>0.05</u>
				<input checked="" type="checkbox"/> TOC	<u>8</u>



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Endrin	—	— Toxaphene	—	— PCB's	—
— Lindane	—	— 2,4-D	—	— Petroleum	—
— Methoxychlor	—	— 2,4,5-TP(Silvex)	—	— EDB	—
				— TOX	—

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
— (MF) Coliform Colonies/100mls	— Gross Alpha	—
— (MPN) Coliform Colonies/100mls	— Gross Beta	—

Date Received _____ Date Reported 10-31-84
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 44444 OCT 12 84

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:-----

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg
ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

RUSH

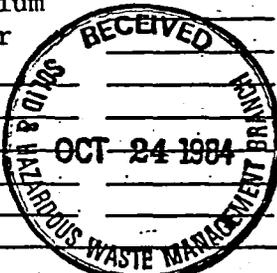
Site Number 80-000001002X Field Sample Number 1584
 Name of Site Town Creek WWTP Site Location Salisbury
 Collected By Rabb ID# 12 Date Collected 10/10/84 Time 2:00 PM

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>WELL TU</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Arsenic	_____	— Arsenic	_____	— Chloride	_____
— Barium	_____	— Barium	_____	— Conductivity	_____
— Cadmium	_____	— Cadmium	_____	— Copper	_____
— Chromium	_____	— Chromium	_____	— Fluoride	_____
— Lead	_____	— Lead	_____	— Iron	_____
— Mercury	_____	— Mercury	_____	— Manganese	_____
— Selenium	_____	— Selenium	_____	— Nitrate	_____
— Silver	_____	— Silver	_____	— pH	_____
_____	_____	_____	_____	— Sulfates	_____
_____	_____	_____	_____	— TDS	_____
_____	_____	_____	_____	— Zinc	_____
_____	_____	_____	_____	— TOC	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Endrin	_____	— Toxaphene	_____	— PCB's	_____
— Lindane	_____	— 2,4-D	_____	— Petroleum	_____
— Methoxychlor	_____	— 2,4,5-TP (Silvex)	_____	— EDB	_____
_____	_____	✓ <u>PAH's</u> <u>No purgables</u>	_____	— TOX	<u>~15.6 ug/l</u>
_____	_____	<u>detected by EPA Method 624.</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
— (MF) Coliform Colonies/100mls	— Gross Alpha	_____
— (MPN) Coliform Colonies/100mls	— Gross Beta	_____
_____	_____	_____
_____	_____	_____

Date Received 10/11/84 T.P. Date Reported 10/19/84
 Date Extracted 10/10/84 T.W. Date Analyzed 10/16/84 T.W.
 Reported By John L. Neil Lab Number 405661

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg
ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

RUSH

Site Number 80-000001002 X Field Sample Number 1586
 Name of Site Town Creek WWTAP Site Location Salisbury
 Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:45 PM

Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Stream sediment sample</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Arsenic	_____	— Arsenic	_____	— Chloride	_____
— Barium	_____	— Barium	_____	— Conductivity	_____
— Cadmium	_____	— Cadmium	_____	— Copper	_____
— Chromium	_____	— Chromium	_____	— Fluoride	_____
— Lead	_____	— Lead	_____	— Iron	_____
— Mercury	_____	— Mercury	_____	— Manganese	_____
— Selenium	_____	— Selenium	_____	— Nitrate	_____
— Silver	_____	— Silver	_____	— pH	_____
—	_____	—	_____	— Sulfates	_____
—	_____	—	_____	— TDS	_____
—	_____	—	_____	— Zinc	_____
—	_____	—	_____	— TOC	_____
—	_____	—	_____		_____
—	_____	—	_____		_____



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Endrin	_____	— Toxaphene	_____	— PCB's	_____
— Lindane	_____	— 2,4-D	_____	— Petroleum	_____
— Methoxychlor	_____	— 2,4,5-TP (Silvex)	_____	— EDB	_____
—	_____		_____	— TOX	_____
—	_____		_____		_____
—	_____		_____		_____
—	_____		_____		_____

Y. P+T/GC-MS No purgeables detected by EPA Method 624

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Results	Parameter	Results PCi/l
— (MF) Coliform Colonies/100mls	_____	— Gross Alpha	_____
— (MPN) Coliform Colonies/100mls	_____	— Gross Beta	_____
—	_____	—	_____
—	_____	—	_____

Date Received 10/11/84 U.P. Date Reported 10/19/84
 Date Extracted _____ Date Analyzed _____
 Reported By John R. Neal Lab Number 405662

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg

ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as ground-water, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

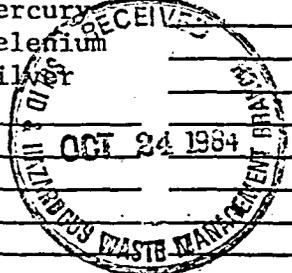
RUSH

Site Number 80-000001002X Field Sample Number 1585
 Name of Site Town Creek WWTP Site Location Salisbury
 Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:30 PM
 Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Stream sample</u>
<input checked="" type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input type="checkbox"/> Arsenic		<input type="checkbox"/> Chloride	
<input type="checkbox"/> Barium		<input type="checkbox"/> Barium		<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Cadmium		<input type="checkbox"/> Cadmium		<input type="checkbox"/> Copper	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chromium		<input type="checkbox"/> Fluoride	
<input type="checkbox"/> Lead		<input type="checkbox"/> Lead		<input type="checkbox"/> Iron	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Mercury		<input type="checkbox"/> Manganese	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Selenium		<input type="checkbox"/> Nitrate	
<input type="checkbox"/> Silver		<input type="checkbox"/> Silver		<input type="checkbox"/> pH	
				<input type="checkbox"/> Sulfates	
				<input type="checkbox"/> TDS	
				<input type="checkbox"/> Zinc	
				<input type="checkbox"/> TOC	



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Endrin		<input type="checkbox"/> Toxaphene		<input type="checkbox"/> PCB's	
<input type="checkbox"/> Lindane		<input type="checkbox"/> 2,4-D		<input type="checkbox"/> Petroleum	
<input type="checkbox"/> Methoxychlor		<input type="checkbox"/> 2,4,5-TP (Silvex)		<input type="checkbox"/> EDB	
		<input checked="" type="checkbox"/> PET-GC/MS	<u>No nugs detected</u>	<input type="checkbox"/> TOX	<u>8.8 ug/l</u>
		<u>detected by EPA Method 62F</u>			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received 10/11/84 V.P. Date Reported 10/19/84
 Date Extracted TOX 10/17/84 P/T 10/18/84 Date Analyzed 10/17/84 (TOX) NW
 Reported By John H. Neal Lab Number 405557

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg

ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as ground-water, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

CONTACT :

ARK DORWAY, 2178

S.E.H.W

3017 program

N. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

A.S.A.P.

001471

Site Number _____ Field Sample Number I INORGANIC

Name of Site TOWN CREEK - WWTP Site Location SALISBURY, ROWAN Co., NC

Collected By Kelly PATTON ID# City of Salisbury WWTP Superintendent Date Collected 10-19-84 Time PM

Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Sample submitted in plastic container with poor seal</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Arsenic	_____	Arsenic	_____	Chloride	_____
Barium	_____	Barium	_____	Conductivity	_____
Cadmium	_____	Cadmium	_____	Copper	_____
Chromium	_____	Chromium	_____	Fluoride	_____
Lead	_____	Lead	_____	Iron	_____
Mercury	_____	Mercury	_____	Manganese	_____
Selenium	_____	Selenium	_____	Nitrate	_____
Silver	_____	Silver	_____	pH	_____
_____	_____	_____	_____	Sulfates	_____
_____	_____	_____	_____	TDS	_____
_____	_____	_____	_____	Zinc	_____
_____	_____	_____	_____	TOC	_____

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	_____	Toxaphene	_____	PCB's	_____
Lindane	_____	2,4-D	_____	Petroleum	_____
Methoxychlor	_____	2,4,5-TP (Silvex)	_____	EDB	_____
XYLENE	} <u>a/</u>	METHANOL	} <u>a/</u>	TOX	_____
TOLUENE		METHYLETHYL KETONE		METHYL ISOPROPYL KETONE	} <u>a/</u>
METHYL ETHYL KETONE		1,2-Dichloroethane		ACETONE	_____

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls	Gross Alpha	_____
(MPN) Coliform Colonies/100mls	Gross Beta	_____

a/ No compounds identified by EPA method 624

Date Received 10/25/84 Date Reported 10/1/84

Date Extracted _____ Date Analyzed _____

Reported By John R. Neal Lab Number 406537

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg

ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as ground-water, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

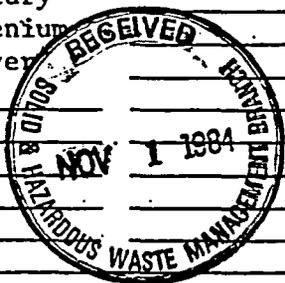
Site Number 80-000001602X Field Sample Number 1610
 Name of Site Town Creek WWTP Site Location Salisbury
 Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:30 Pm

Type of Sample:

<input type="checkbox"/> Environmental	<input type="checkbox"/> Concentrate	<u>Stream sample</u>
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	
<input checked="" type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Asenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Chloride	<u>7</u>
Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input checked="" type="checkbox"/> Conductivity	<u>180 μmhos</u>
Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Copper	<u><0.05</u>
Chromium		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>
Lead		<input checked="" type="checkbox"/> Lead	<u><0.03</u>	<input checked="" type="checkbox"/> Iron	<u>0.15</u>
Mercury		<input checked="" type="checkbox"/> Mercury	<u><0.002</u>	<input checked="" type="checkbox"/> Manganese	<u>0.06</u>
Selenium		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input checked="" type="checkbox"/> Nitrate	<u>1.1</u>
Silver		<input checked="" type="checkbox"/> Silver	<u><0.05</u>	<input checked="" type="checkbox"/> pH	<u>7.6</u>
		<input checked="" type="checkbox"/> Sb	<u><0.05</u>	<input checked="" type="checkbox"/> Sulfates	<u>4</u>
				<input checked="" type="checkbox"/> TDS	<u>135</u>
				<input checked="" type="checkbox"/> Zinc	<u><0.05</u>
				<input checked="" type="checkbox"/> TOC	<u>5</u>



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin		Toxaphene		PCB's	
Lindane		2,4-D		Petroleum	
Methoxychlor		2,4,5-TP(Silvex)		EDB	
				TOX	

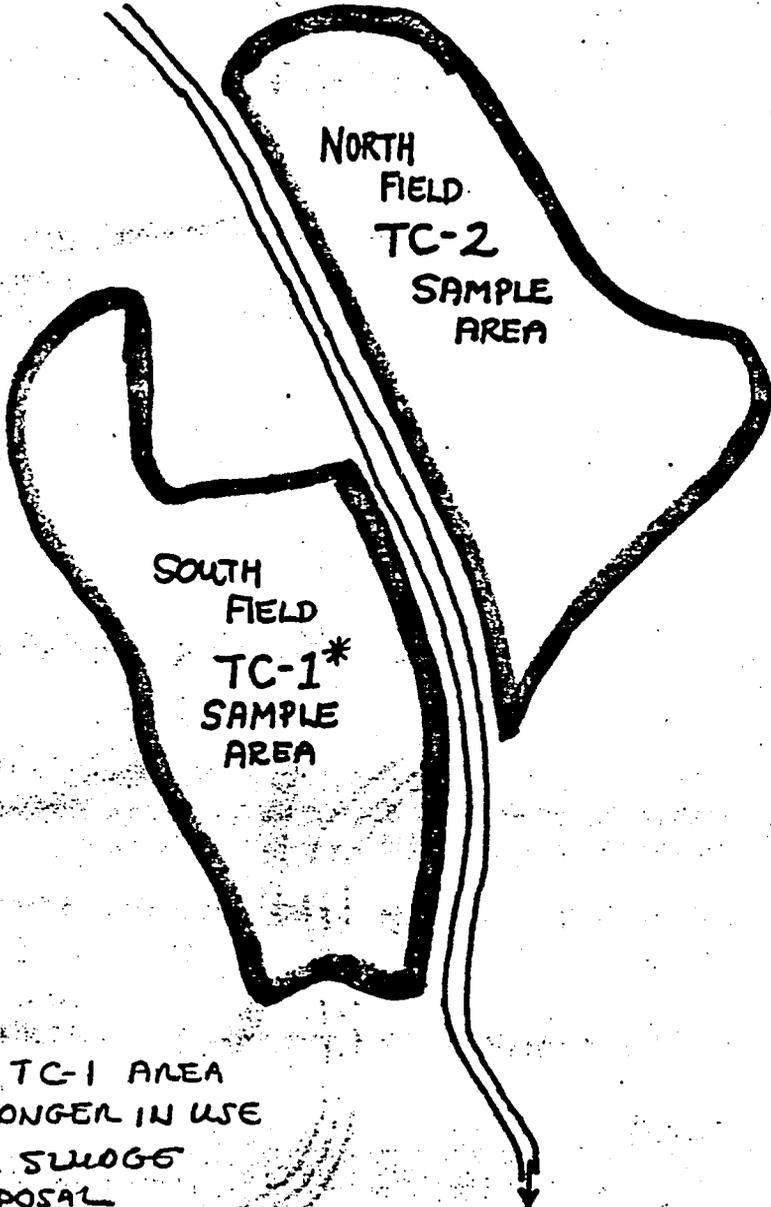
MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls	Gross Alpha	
(MPN) Coliform Colonies/100mls	Gross Beta	

Date Received _____ Date Reported 10-31-84
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 44445 OCT 12 84

HEILIGSTADT ROAD



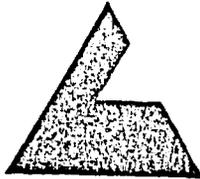
*NOTE: TC-1 AREA
NO LONGER IN USE
FOR SLUDGE
DISPOSAL

TOWN CREEK WWT

INTERSTATE I-85

APPENDIX C

WELL DATA



LAW ENGINEERING TESTING COMPANY

geotechnical, environmental & construction materials consultants
501 MINUET LANE
P.O. BOX 11297 • CHARLOTTE, NORTH CAROLINA 28220
(704) 523-2022

April 27, 1984

City of Salisbury
P. O. Box 479
Salisbury, North Carolina 28144

Attention: Mr. Kelly Patton
Superintendent of Treatment Plants

Subject: Report of Water Quality Monitoring Well Installation
Town Creek Waste-Water Treatment Plant
Grant Creek Waste-Water Treatment Plant
Salisbury, North Carolina
LETCO. Job No. CH 5019

Gentlemen:

As authorized by your Purchase Order No. 22778 accepting our Proposal No. 092S4 dated April 4, 1984, Law Engineering Testing Company has completed the installation of four water quality monitoring wells at the two subject sites. This report describes the installation procedures and presents logs of the well installations.

Two monitoring wells were installed at the Town Creek Treatment Plant and two at the Grant Creek Treatment Plant. The well locations were staked in the field by others and observed by Mr. Kelly Patton of the City of Salisbury and Mr. William Babcock of Law Engineering. No site plans were furnished to us.

The monitoring wells were installed using rotary wash-drilling techniques until refusal to the drilling equipment was encountered. (Rock coring, which was not done, would be necessary to determine the nature and vertical continuity of the refusal material.) The actual construction details are shown on the attached Ground Water Monitoring Well Installation Records. The well casing and screens are 2-inch diameter Schedule 40 PVC pipe with flush-threaded fittings. The screens are 10 ft in length and have manufactured 0.010 inch slots. The annular space between the casing and the borehole wall was filled with concrete sand to a depth above the screened section. A bentonite seal was installed over the sand pack and cement grout

City of Salisbury
April 27, 1984
LETCo. Job No. CH 5019

-2-

was pumped in the remaining annular space to the surface. A vented cap was placed on the PVC casing and a lockable steel protective cover was installed over the well casing and set into the grout.

The wells were developed initially by over-pumping, and later by bailing. Surveyed locations and elevations of the wells were not available for this report. (We recommend that this information be acquired.)

Law Engineering Testing Company appreciates the opportunity to provide our professional drilling services for this project. Please contact us if we can be of further service or if you have any questions concerning the results reported herein.

Very truly yours,

LAW ENGINEERING TESTING COMPANY

William E. Babcock Jr.
William E. Babcock, Jr.
Drilling Department Manager

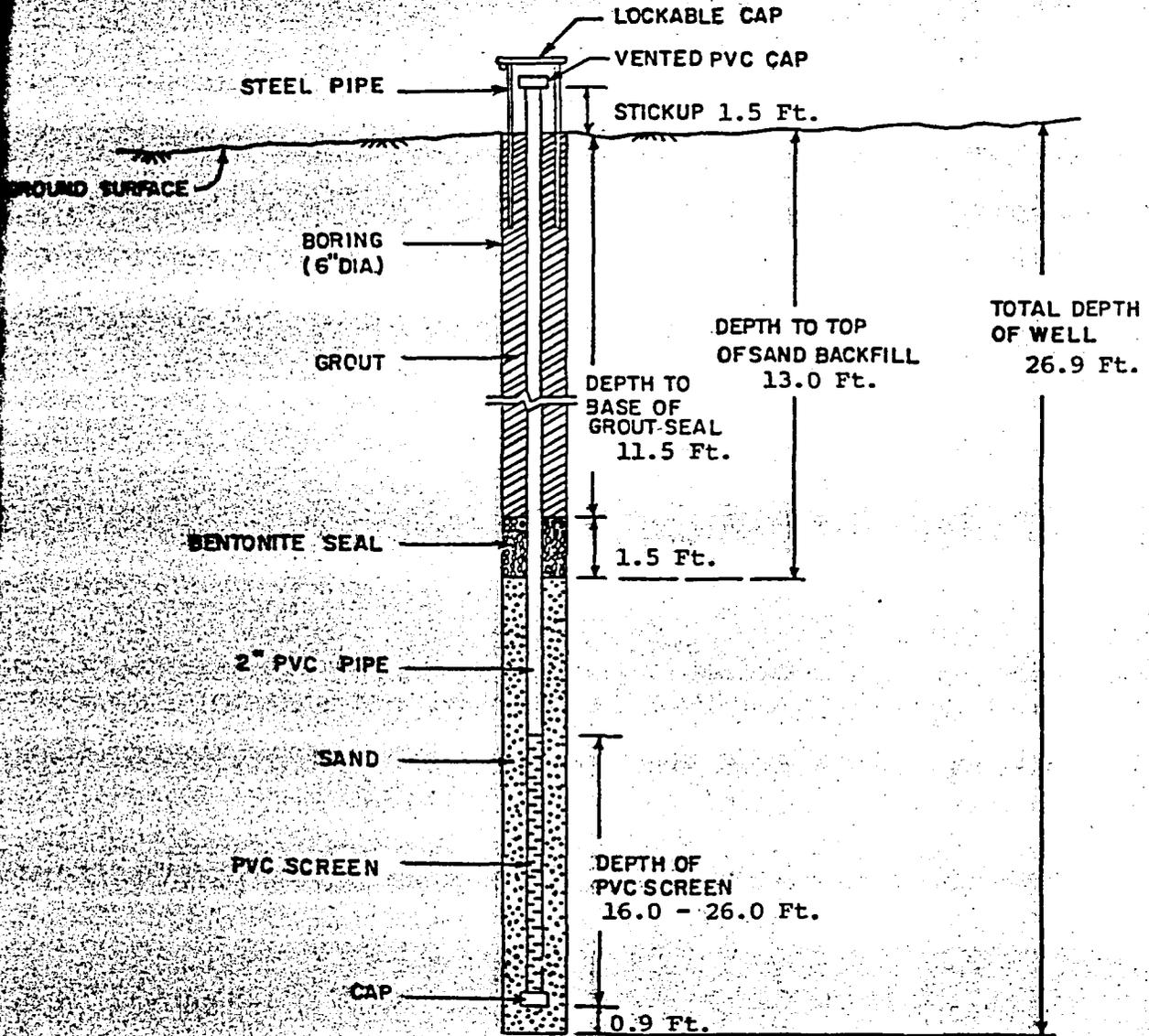
Neil J. Gilbert
Neil J. Gilbert, P. E., P. G.
Senior Engineering Geologist

Attachments

WEB/NJG:tmc

GROUND-WATER MONITORING WELL INSTALLATION RECORD

JOB NAME City of Salisbury JOB NUMBER CH 5019
 WELL NUMBER W-1 TU GROUND SURFACE ELEVATION _____
 LOCATION Town Creek Waste Water Treatment Plant (Apparent Upgradient Location)
 INSTALLATION DATE 4-12-84



NOTE: ALL PVC PIPE JOINTS HAVE SCREW CONNECTORS

City of Salisbury
 Waste Water Treatment
 Plants
 Salisbury, North Carolina



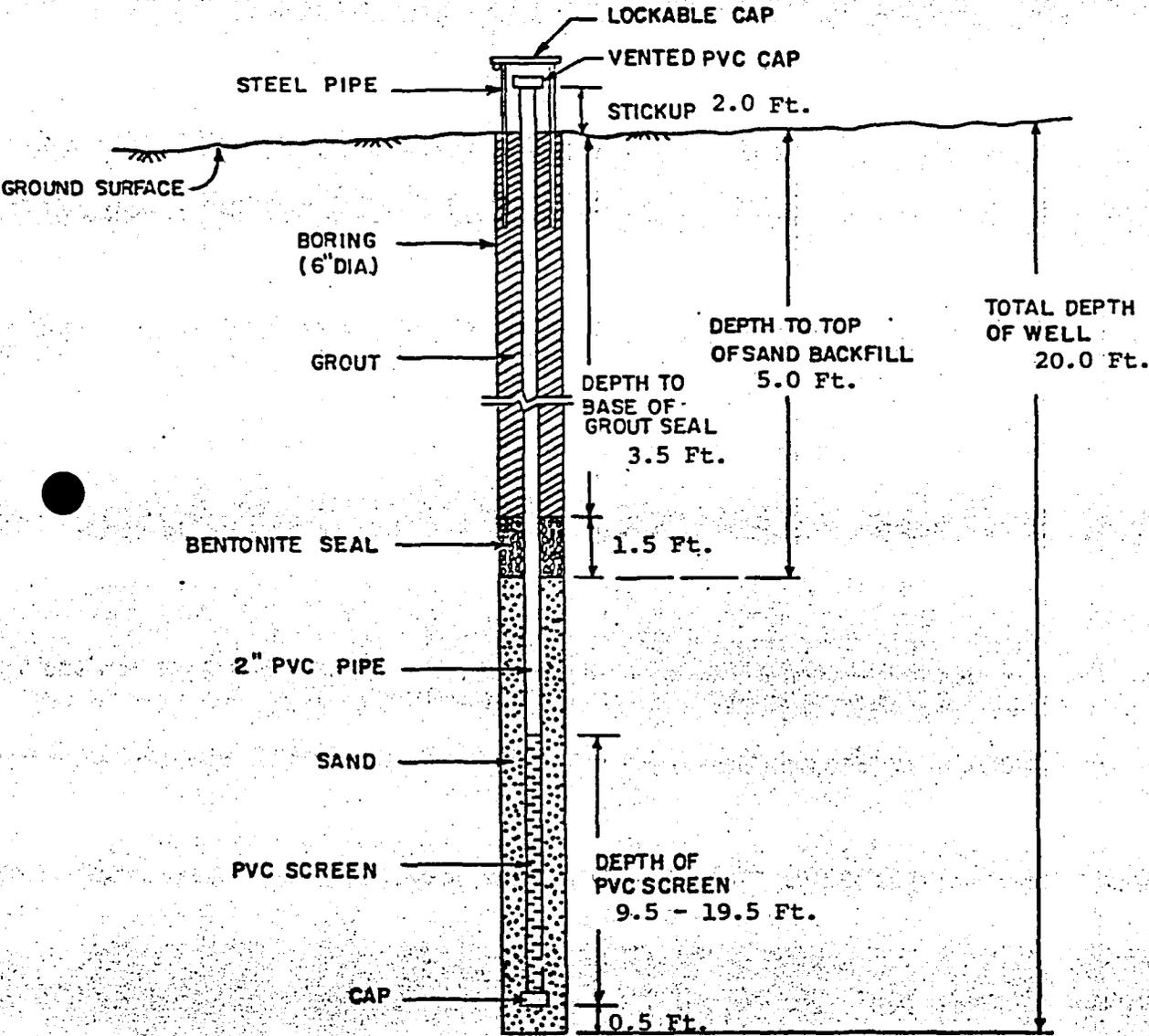
LAW ENGINEERING TESTING COMPANY

CHARLOTTE, NORTH CAROLINA

GROUND-WATER MONITORING WELL INSTALLATION RECORD

GROUND-WATER MONITORING WELL INSTALLATION RECORD

B NAME City of Salisbury **JOB NUMBER** CH 5019
WELL NUMBER W-2 TD **GROUND SURFACE ELEVATION** _____
CATION Town Creek Waste Water Treatment Plant (Apparent Downgradient Location)
INSTALLATION DATE 4-12-84



NOTE: ALL PVC PIPE JOINTS HAVE SCREW CONNECTORS

Ground Water at 3.6 Ft.
Measured on 4-13-84

City of Salisbury
 Waste Water Treatment
 Plants
 Salisbury, North Carolina



LAW ENGINEERING TESTING COMPANY

CHARLOTTE, NORTH CAROLINA

GROUND-WATER MONITORING WELL INSTALLATION RECORD

APPENDIX D

REFERENCES

- 1) Kelly Patton, Superintendent of Water and Waste Water Treatment Plants, P.O. Box 479, Salisbury, NC 28144.
- 2) National Starch and Chemical Co., Salisbury, NC, Permit Application (NC D991278953)
- 3) USGS 7.5' Quad, Salisbury, NC, 1962.
- 4) Aerial photo, Town Creek WWTP, 1977
- 5) N.C. Division of Health Services, State Laboratory of Public Health, Raleigh, N.C.
- 6) Law Engineering Testing Co., Charlotte, NC, groundwater monitoring well installation record for Town Creek WWTP.
- 7) Environmental Testing, Inc., Charlotte, NC, soil and monitoring wells chemical analysis, provided by Kelly Patton.

APPENDIX E

SITE INSPECTION FORM

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

General Information

The Potential Hazardous Waste Site, Site Inspection Report form is used to record information collected during, or associated with, an inspection of the site and other information about responsible parties and past response activities.

The Site Inspection Report form contains eleven parts:

- Part 1 — Site Location and Inspection Information
- Part 2 — Waste Information
- Part 3 — Description of Hazardous Conditions and Incidents
- Part 4 — Permit and Descriptive Information
- Part 5 — Water, Demographic, and Environmental Data
- Part 6 — Sample and Field Information
- Part 7 — Owner Information
- Part 8 — Operator Information
- Part 9 — Generator/Transporter Information
- Part 10 — Past Response Activities
- Part 11 — Enforcement Information

Part 1 — Site Location and Inspection Information contains all of the data elements also contained on the Site Identification and Preliminary Assessment forms required to add a site to the automated Site Tracking System (STS). It is therefore possible to add a site to STS at the Site Inspection stage. Instructions are given below.

Part 2 — Waste Information and Part 3 — Description of Hazardous Conditions and Incidents are used to record specific information about substances, amounts, hazards, and targets, e.g., population potentially affected. Parts 2 and 3 are also contained in the Potential Hazardous Waste Site, Preliminary Assessment form. Information recorded on Part 2 and Part 3 during a preliminary assessment may be updated, added, deleted, or corrected on the Site Inspection Report form.

An Appendix with feedstock names and CAS Numbers and the most frequently cited hazardous substances and CAS Numbers is located behind the instructions for the Site Inspection Report.

A number of the data items collected throughout the Site Inspection Report support the Site Ranking Model. The majority of these data items are found in Part 5 — Water, Demographic, and Environmental Data.

General Instructions

1. Complete the Site Inspection Report form as completely as possible.
2. Starred items (*) are required before inspection information can be added to STS. The system will not accept incomplete inspection information.
3. To add a site to STS at the Site Inspection stage, write "New" across the top of the form and complete items #1-01, 02, 03, 04, and 06, Site Name and Location, #11-09 Coordinates, and #11-10, Type of Ownership.
4. Data items carried in STS, which are identical to those on the Site Identification and Preliminary Assessment forms and which can be added, deleted, or changed using the

Site Inspection Report form, are indicated with a pound sign (#). To ensure that the proper action is taken, outline the item(s) to be added, deleted, or changed with a bright color and indicate the proper action with "A" (add), "D" (delete) or "C" (change).

5. There are two options available for adding, deleting, or changing information supplied on the Site Inspection Report form. The first is to use a new Site Inspection Report form, completing only those items to be added, deleted, or changed. Mark the form clearly, using "A", "D", or "C", to indicate the action to be taken. If only data in STS are to be altered, the Site Source Data Report may be used. Using the report, mark clearly the items to be changed and the action to be taken.

Detailed Instructions

Part 1 Site Location and Inspection Information

- I. Identification: Identification (State and Site Number) is the site record key, or primary identifier, for the site. Site records in the STS are updated based on Identification. It is essential that State and Site Number are correctly entered on each form.
 - *1-01 State: Enter the two character alpha FIPS code for the state in which the site is located. It must be identical to State on the Site Identification form.
 - *1-02 Site Number: Enter the ten character alphanumeric code for sites which have a Dun and Bradstreet or EPA "user" Dun and Bradstreet number or the ten character numeric GSA identification code for federal sites. The Site Number must be identical to the Site Number on the Site Identification and Preliminary Assessment forms.
- II. Site Name and Location: If Site Name and Location information require no additions or changes, these items are not required on the Site Inspection Report form. However, completing these items will facilitate use of the completed form and records management procedures.
 - #11-01 Site Name: Enter the legal, common, or descriptive name of the site.
 - #11-02 Site Street: Enter the street address and number (if appropriate) where the site is located. If the precise street address is unavailable for this site, enter brief direction identifier, e.g., NW Jct I-295 & US 99; Post Rd, 5 mi W of Rt. 5.
 - #11-03 Site City: Enter the city, town, village, or other municipality in which the site is located. If the site is not located in a municipality, enter the name of the municipality (or place) which is nearest the site or which most easily locates the site.
 - #11-04 Site State: Enter the two character alpha FIPS code for the state in which the site is located. The code must be the same as in item I-01.
 - #11-05 Site Zip Code: Enter the five character numeric zip code for the postal zone in which the site is located.

- #II-05 Site County: Enter the name of the county, parish (Louisiana), or borough (Alaska) in which the site is located.
- #II-07 County Code: Enter the three character numeric FIPS county code for the county, parish, or borough in which the site is located. (The regional data analyst can furnish this data item.)
- #II-08 Site Congressional District: Enter the two character number for the congressional district in which the site is located.
- *#II-09 Coordinates: Enter the Coordinates, Latitude and Longitude, of the site in degrees, minutes, seconds, and tenths of seconds. If a tenth of a second is insignificant at this site, enter "0" in the tenths position.
- #II-10 Type of Ownership: Check the appropriate box to indicate the type of site ownership. If the site is under the jurisdiction of an activity of the federal government, enter the name of the department, agency, or activity. If Other is indicated, specify the type of ownership and name.

III. Inspection Information

- *III-01 Date of Inspection: Enter the date the inspection occurred, or began for multiple day inspections.
- *III-02 Site Status: Check the appropriate box(es) to indicate the current status of the site. Active sites are those which treat, store, or dispose of wastes. Check Active for those active sites with an inactive storage or disposal area. Inactive sites are those at which treatment, storage, or disposal activities no longer occur.
- #III-03 Years of Operation: Enter the beginning and ending years (or beginning only if operations at the site are on-going), e.g., 1878/1932, of site operation. Check Unknown if years of operation are not known.
- *III-04 Agency Performing Inspection: Check the appropriate box(es) to indicate parties participating in the inspection. If contractors participate, provide the name of the firm(s).
- III-05 Chief Inspector: Enter the name of the chief, or lead inspector.
- III-06 Title: Enter the Chief Inspector's title, e.g., Team Leader, FIT team.
- III-07 Organization: Enter the name of the organization where the Chief Inspector is employed, e.g., EPA - Region 4, VA State Health Dept., Environmental Research Co.
- III-08 Telephone Number: Enter the Chief Inspector's area code and local commercial telephone number.
- III-09 Other Inspectors: Enter the names of other parties participating in the inspection.
- III-10 Title: Enter the titles of other parties participating in the inspection.
- III-11 Organization: Enter the names of the organizations where other parties participating in the inspection are employed.
- III-12 Telephone Number: Enter the area code and local commercial telephone numbers of other parties par-

- III-13 Site Representatives Interviewed: Enter the names of individuals representing responsible parties interviewed in connection with the inspection. Interviews do not necessarily occur during the inspection.
- III-14 Title: Enter the titles of the individuals interviewed.
- III-15 Address: Enter the business, mailing, or residential addresses of the individuals interviewed.
- III-16 Telephone Number: Enter the area code and local commercial telephone numbers of the individuals interviewed.
- III-17 Access Gained By: Check the appropriate box to indicate whether access to the site was gained through permission or warrant.
- III-18 Time of Inspection: Using a 24-hour clock, enter the time the inspection began, e.g., for 3:24 p.m. enter 1524.
- III-19 Weather Conditions: Describe the weather conditions during the site inspection, especially any unusual conditions which might affect results or observations taken.

IV. Information Available From

- IV-01 Contact: Enter the name of the individual who can provide information about the site.
- IV-02 Of: If appropriate, enter the name of the public or private agency, firm, or company and the organization within the agency, firm, or company of the individual named as Contact.
- IV-03 Telephone Number: Enter the area code and local telephone number of the individual named as contact.
- IV-04 Person Responsible for Site Inspection Report Form: Enter the name of the individual who was responsible for the information entered on the Site Inspection Report form. The person responsible for the Site Inspection Report form may be different from the individual who prepared the form.
- IV-05 Agency: Enter the name of the Agency where the individual who is responsible for the Site Inspection Report form is employed.
- IV-06 Organization: Enter the name of the organization within the Agency.
- IV-07 Telephone Number: Enter the area code and local telephone number of the individual who is responsible for the Site Inspection Report form.
- IV-08 Date: Enter the date the Site Inspection Report form was prepared.

Part 2 Waste Information

- *I. Identification: Refer to Part 1-1.
- II. Waste States, Quantities, and Characteristics: Waste States, Quantities, and Characteristics provide information about the physical structure and form of the waste, measures of gross amounts at the site, and the hazards posed by the waste, considering acute and chronic health effects and mobility along a pathway.

*II-01 Physical States: Check the appropriate box(es) to indicate the state(s) of waste present at the site. If Other is indicated, specify the physical state of the waste.

*II-02 Waste Quantity at Site: Enter estimates of amounts of waste at the site. Estimates may be in weight (Tons) or volume (Cubic Yards or Number of Drums). Use as many entries as are appropriate; however, measurements must be independent. For example, do not measure the same amounts of waste as both tons and cubic yards.

*II-03 Waste Characteristics: Check all appropriate entries to indicate the hazards posed by waste at the site. If waste at the site poses no hazard, check Not Applicable.

III. Waste Category: General categories of waste typically found are listed here. Enter the estimated gross amount of each category of waste and the appropriate unit of measure.

*III-01 Gross Amount: Gross Amount is the estimate of the amount of the waste category found at the site. Estimates should be furnished in metric tons (MT), tons (TN), cubic meters (CM), cubic yards (CY), drums (DR), acres (AC), acre feet (AF), liters (LT), or gallons (GA). Enter the estimated amount next to the appropriate waste category.

*III-02 Unit of Measure: Enter the appropriate unit of measure, MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (number of drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons) next to the estimate of gross amount.

III-03 Comments: Comments may be used to further explain, or provide additional information, about particular waste categories.

IV. Hazardous Substances: Specific hazardous, or potentially hazardous, chemicals, mixtures, and substances found at the site are listed here. For each substance listed those data items marked with an "at" sign (@) must be included.

@IV-01 Category: Enter in front of the substance name the three character waste category from Section III which best describes the substance, e.g., OLW (Oily Waste).

@IV-02 Substance Name: Enter one of the following: the name of the substance registered with the Chemical Abstract Service, the common or accepted abbreviation of the substance, the generic name of the substance, or commercial name of the substance.

@IV-03 CAS Number: Enter the number assigned to the substance when it was registered with the Chemical Abstract Service. Refer to the Appendix for most frequently cited CAS Numbers. CAS Numbers must be furnished for each substance listed. If a CAS Number for this substance has not been assigned, enter "999".

@IV-04 Storage/Disposal Method: Enter the type of storage or disposal facility in which the substance was found: SI (surface impoundment, including pits, ponds, and lagoons), PL (pile), DR (drum), TK (tank), LF (landfill), LM (landfarm), OD (open

IV-05 Concentration: Enter the concentration of the substance found in samples taken at the site.

IV-06 Measure of Concentration: Enter the appropriate unit of measure for the measured concentration of the substance found in the sample, e.g., MG/L, UG/L.

V. Feedstocks

V-01 Feedstock Name: If feedstocks, or substances derived from one or more feedstocks, are present at the site, enter the name of each feedstock found. See the Appendix for the feedstock list.

V-02 CAS Number: Enter the CAS Number for each feedstock named. See the Appendix for feedstock CAS Numbers.

VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 3 Description of Hazardous Conditions and Incidents

*I. Identification: Refer to Part 1-1.

II. Hazardous Conditions and Incidents:

II-01 Hazards: Indicate each hazardous, or potentially hazardous, condition known, or claimed, to exist at the site.

II-02 Observed, Potential, or Alleged: Check Observed and enter the date, or approximate date, of occurrence if a release of contaminants to the environment, or some other hazardous incident, is known to have occurred. In cases of a continuing release, e.g., groundwater contamination, enter the date, or approximate date, the condition first became apparent. If conditions exist for a potential release, check potential. Check Alleged for hazardous, or potentially hazardous, conditions claimed to exist at the site.

II-03 Population Potentially Affected: For each hazardous condition at the site, enter the number of people potentially affected. For Soil enter the number of acres potentially affected.

II-04 Narrative Description: Provide a narrative description, or explanation, of each condition. Include any additional information which further explains the condition.

II-05 Description of Any Other Known, Potential, or Alleged Hazards: Provide a narrative description of any other hazardous, or potentially hazardous, conditions at the site not covered above.

III. Total Population Potentially Affected: Enter the total number of people potentially affected by the existence of hazardous, or potentially hazardous, conditions at the site. Do not sum the numbers shown for each condition.

IV. Comments: Other information relevant to observed, potential, or alleged hazards may be entered here.

V. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 4 Permit and Descriptive Information

*I. **Identification:** Refer to Part 1-1.

II. Permit Information

II-01 **Type of Permit Issued:** Check the appropriate box(es) to indicate the types of permits issued to the site. If state, local, or other types of environmental permits have been issued, specify the type.

II-02 **Permit Number:** Enter the permit number for each issued permit.

II-03 **Date Issued:** Enter the date each permit was issued.

II-04 **Expiration Date:** Enter the date each permit expires or expired.

II-05 **Comments:** Enter any information which further explains the types of permits issued or status of the permits.

III. Site Description

*III-01 **Storage/Disposal:** Check the appropriate box(es) to indicate the types of storage/disposal facilities found at the site. If Other is checked, specify the type of facility.

*III-02 **Amount:** Enter the gross amount of waste associated with each type of storage/disposal facility. Amounts may be measured in: metric tons, tons, cubic meters, cubic yards, drums, acres, acre feet, liters, or gallons.

*III-03 **Unit of Measure:** Enter the appropriate unit of measure for each entry. Units of measure are MT (metric tons), TN (tons), CM (cubic meters), CY (cubic yards), DR (drums), AC (acres), AF (acre feet), LT (liters), or GA (gallons).

*III-04 **Treatment:** If waste is treated at the site, check the appropriated box(es) to indicate treatment methods used. If Other is checked, specify treatment method.

III-05 **Other:** If there are buildings on site, check this box.

*III-06 **Area of Site:** Enter total area of site in acres.

III-07 **Comments:** Enter any other pertinent information.

IV. **Containment:** Containment is a measure of the natural or artificial means taken to minimize or preclude health hazards and to minimize or prevent contamination of the environment from waste at the site.

V-01 **Containment of Wastes:** Check the appropriate box to indicate the condition of containment measures at the site. When choosing the appropriate box, consider the potential for environmental contamination, i.e., the worst case for containment in conjunction with the most hazardous substances.

IV-02 **Description of Drums, Diking, Liners, Barriers:** Provide a narrative description of the condition of containment measures at the site, e.g., waste ade-

quately contained, drums rusting and leaking, diking collapsing, liners leaking and contaminants leaching into soil and groundwater.

V. **Accessibility:** Accessibility is an indicator of the potential for direct contact with hazardous substances.

*V-01 **Waste Easily Accessible:** If there are no real barriers preventing human access to hazardous waste, check Yes, otherwise check No.

V-02 **Comments:** Additional information about accessibility to hazardous waste may be provided.

VI. **Sources of Information:** List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 5 Water, Demographic, and Environmental Data

*I. **Identification:** Refer to Part 1-1.

II. Drinking Water Supply

II-01 **Type of Drinking Water Supply:** Check the appropriate box(es) to indicate the types and sources of drinking water within the vicinity of the site. Community refers to municipal sources. Non-community refers to private sources, e.g., private wells.

II-02 **Status:** Check the appropriate box(es) to indicate whether the water supply is endangered or affected by contaminants from the site. Check the appropriate box to indicate if the water supply is being monitored for possible contamination.

II-03 **Distance to Site:** Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to nearest drinking water source.

III. Groundwater

III-01 **Groundwater Use in Vicinity:** Check the appropriate box to indicate groundwater use in the vicinity of the site. The concern is to indicate the seriousness of groundwater contamination from waste at the site. Only Source for Drinking indicates that current water sources are limited to wells in the vicinity of the site. Drinking; Commercial, Industrial, Irrigation indicates that groundwater is used for drinking, but that other limited drinking sources are available and that no other sources for these additional uses are available. Commercial, Industrial, Irrigation indicates that groundwater is used for these purposes, but that limited other sources of water are available. Not used, Unuseable indicates that groundwater use in the area is not critical.

III-02 **Population Served by Groundwater:** Enter the number of people served by groundwater in the vicinity of the site. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for
lin. unit or 3. persons per acre in rural areas

III-03 Distance to Nearest Drinking Water Well: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest drinking water well.

III-04 Depth to Groundwater: Enter the depth in feet to groundwater.

III-05 Depth of Groundwater Flow: Enter the cardinal direction of groundwater flow, e.g., NNW.

III-06 Depth to Aquifer of Concern: Enter the depth in feet to the aquifer of concern.

III-07 Potential Yield of Aquifer: Enter the potential yield of the aquifer in gallons per day.

III-08 Sole Source Aquifer: Check the appropriate box to indicate the aquifer of concern is, or is not, a sole source aquifer.

III-09 Description of Wells: Provide a narrative description of wells in the vicinity of the site, including usage, depth, and location relative to population and buildings.

III-10 Recharge Area: Check the appropriate box to indicate the site is located in a recharge area. Comments provide additional information on the recharge area.

III-11 Discharge Area: Check the appropriate box to indicate the site is located in a discharge area. Comments provide additional information on the discharge area.

V. Surface Water

IV-01 Surface Water Use: Check the appropriate box to indicate surface water use in the vicinity of the site. The order of precedence is Reservoir, Recreation, Drinking Water Source; Irrigation, Economically Important Reserves; Commercial/Industrial; Not Currently Used.

IV-02 Affected/Potentially Affected Bodies of Water: Enter the names of bodies of surface water affected, or potentially affected, by contaminants from the site. List the body of surface water nearest the site first. For each body of water check Affected if contaminants have been identified in samples of the water. Enter the shortest distance from the body of water to the site in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required).

V. Demographic and Property Information

V-01 Total Population Within: Enter the total population within one (1) mile, two (2) miles, and three (3) miles of the site. Distances are measured from site boundaries. Population for the purposes of the Site Inspection Report includes residents and daytime workers and students but excludes transients in the neighborhood or on local highways and roads. When estimating population from aerial photographs or other sources, the conversion factor is 3.8 persons for each dwelling unit or 3 persons per acre in rural areas.

V-02 Distance to Nearest Population: Enter in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) the dis-

tance from the site boundary to the nearest population (one person minimum).

V-03 Number of Buildings Within Two (2) Miles of Site: Enter the number of buildings within two miles from the boundaries of the site.

V-04 Distance to Nearest Off-Site Building: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site boundary to the nearest off-site building.

V-05 Population in Vicinity of Site: Provide a narrative description of the nature of the population within the vicinity of the site. Examples include rural area, small truck farms, urban industrial area, densely populated urban residential area.

VI. Environmental Information

VI-01 Permeability of Unsaturated Zone: Check the appropriate box to indicate the permeability of the earth material above the water table in the vicinity of the site.

VI-02 Permeability of Bedrock: Check the appropriate box to indicate the permeability of the bedrock in the vicinity of the site.

VI-03 Depth to Bedrock: Enter the depth to bedrock in feet.

VI-04 Depth of Contaminated Soil Zone: Enter the depth of the contaminated soil zone in feet.

VI-05 Soil pH: Enter the pH of the soil in the vicinity of the site.

VI-06 Net Precipitation: Enter net precipitation in inches. If net precipitation is not known, subtract the average evaporation figure on the U.S. National Weather Service map showing average annual evaporation in inches from the U.S. Environmental Data Service map showing mean annual precipitation.

VI-07 One Year 24 Hour Rainfall: Enter in inches the figure for one year 24 hour rainfall.

VI-08 Slope: Enter the percentage of site slope, the direction of site slope, and the percentage of the surrounding terrain average slope.

VI-09 Flood Potential: Enter the boundary year for the floodplain in which the site is located. Sites flooded annually are in a 1 (one) year floodplain. Other examples include 10, 20, 50, 100, 500, etc., indicating the probability of flooding within that time period.

VI-10 Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway: If site is located in one of these areas, check this box.

VI-11 Distance to Wetlands: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the closest wetlands (five acre minimum) for Estuarine and Other types of wetlands.

VI-12 Distance to Critical Habitat: If applicable, enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) from the site to the nearest critical habitat

of an endangered species. Enter the name(s) of the endangered species.

1-13 Land Use in Vicinity: Enter the distance in miles to the nearest tenth, hundredth, or thousandth (as needed to indicate the precision required) to the nearest Commercial/Industrial area; Residential Area, National/State Parks, Forests, or Wildlife Reserves; or Agricultural Lands, Prime Ag Land and Ag Land. Prime Ag Land is that crop, pasture, range, or forest land which produces the highest yield in relation to inputs. Ag Land is the remaining agricultural land, frequently considered marginal.

VI-14 Description of Site in Relation to Surrounding Topography: Provide a narrative description of significant or unusual aspects of the surrounding topography in relation to the site. Examples might include: site is in a valley surrounded on all sides by mountains, site is at edge of a river or stream which floods frequently, etc.

VII. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 6 Sample and Field Information

Identification: Refer to Part 1-I.

II. Samples Taken

II-01 Number of Samples Taken: Next to each sample type enter the number of samples of that type taken.

II-02 Samples Sent To: Enter the name of the laboratory or other facility where the samples were sent for analysis.

II-03 Estimated Date Results Available: Enter the estimated date the results are expected to be available.

III. Field Measurements Taken

III-01 Type: Enter the type, e.g., radioactivity, explosivity, organic vapor or gas detection and analysis, reagent type gas detection, of each field measurement taken.

III-02 Comments: Describe results of field measurements, whether they were taken on or off site, and if applicable, the type of disposal facility tested, e.g., drum, surface impoundment, landfill.

IV. Photographs and Maps

IV-01 Type: If photographs of the site have been taken, check the appropriate box(es) to indicate the type.

IV-02 In Custody Of: Enter the name of the organization or person who has custody of the photographs.

IV-03 Maps: Check the appropriate box to indicate that maps of the site area have been prepared or obtained.

IV-04 Location of Maps: If site maps are available, indicate their location, e.g., Region 1 Air and Hazardous Materials Division.

V. Other Field Data Collected: Provide a narrative de-

VI. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 7 Owner Information

*I. Identification: Refer to Part 1-I.

II. Current Owner(s) - Parent Company: Current owner(s) and parent companies, for those owners which are companies partly or wholly owned by another company, provide locator information about responsible parties. Each Part 7 provides space for four (4) current owners and their respective parent companies. If additional space is required, complete another Part 7.

II-01 Name: Enter the legal name of the owner of the site. The owner may be a firm, government agency, association, individual, etc.

II-02 D&B Number: Where available, enter the owner's D&B (Dun and Bradstreet) number. If the current owner is a federal agency, enter the GSA identification code.

II-03 Street Address: Enter the business, mailing, or residential street address of the owner.

II-04 SIC Code: If applicable, enter the owner's primary SIC Code.

II-05 City: Enter the city of the owner's business, mailing, or residential address.

II-06 State: Enter the two character alpha FIPS code for the state of the owner's business, mailing, or residential address.

II-07 Zip Code: Enter the five digit zip code for the owner's business, mailing, or residential address.

II-08 Name: If the owner is a partly or wholly owned subsidiary of another company, enter the legal name of the owner's parent company.

II-09 D&B Number: Enter the parent company's Dun and Bradstreet number.

II-10 Street Address: Enter the business or mailing street address of the parent company.

II-11 SIC Code: If applicable, enter the parent company's primary SIC code.

II-12 City: Enter the city of the parent company's business or mailing address.

II-13 State: Enter the two character alpha FIPS code for the state of the parent company's business or mailing address.

II-14 Zip Code: Enter the five digit zip code for the parent company's business or mailing address.

III. Previous Owner(s): List previous owners in reverse chronological order, i.e., most recent first. If additional space is required, complete another Part 7.

III-01 Name: Enter the legal name of the previous owner. The previous owner may have been a firm, government agency, association, individual, etc.

III-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.

III-03 Street Address: Enter the business, mailing, or residential street address of the previous owner.

III-04 SIC Code: If applicable, enter the primary SIC Code of the previous owner.

III-05 City: Enter the city of the previous owner's business, mailing, or residential address.

III-06 State: Enter the two character alpha FIPS code for the state of the previous owner's business, mailing, or residential address.

III-07 Zip Code: Enter the zip code of the previous owner's business, mailing, or residential address.

IV. Realty Owner(s): Realty owner applies when the owner leased to another entity property which was used for the storage or disposal of hazardous waste. List current or most recent first.

IV-01 Name: Enter the legal name of the realty owner. The realty owner may be a firm, government agency, association, individual, etc.

IV-02 D&B Number: Enter the previous owner's Dun and Bradstreet number if available. If the previous owner was a federal agency, enter the GSA identification code if available.

IV-03 Street Address: Enter the realty owner's business, mailing, or residential street address.

IV-04 SIC Code: If applicable, enter the realty owner's primary SIC Code.

IV-05 City: Enter the city of the realty owner's business, mailing, or residential address.

IV-06 State: Enter the two character alpha FIPS code for the state of the realty owner's business, mailing, or residential address.

IV-07 Zip Code: Enter the zip code of the realty owner's business, mailing, or residential address.

V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.

Part 8 Operator Information

I. Identification: Refer to Part 1-I.

II. Current Operator—Operator's Parent Company: Information on operators is applicable when the operator is not the owner.

II-01 Name: Enter the legal name of the operator. The operator may be a firm, government agency, association, individual, etc.

II-02 D&B Number: Enter the operator's Dun and Bradstreet number if available. If the operator is a federal agency, enter the GSA identification code if

II-03 Street Address: Enter the operator's business, mailing, or residential street address.

II-04 SIC Code: If applicable, enter the operator's primary SIC Code.

II-05 City: Enter the city of the operator's business, mailing, or residential address.

II-06 State: Enter the two character alpha FIPS code for the state of the operator's business, mailing, or residential address.

II-07 Zip Code: Enter the zip code of the operator's business, mailing, or residential address.

II-08 Years of Operation: Enter the beginning and ending years (or beginning only if operations are on-going), e.g., 1932/1948, of operation at the site.

II-09 Name of Owner: Enter the name of the owner for the period cited for this operator.

II-10 Name: If applicable, enter the legal name of the operator's parent company.

II-11 D&B Number: Enter the operator's parent company Dun and Bradstreet number if available.

II-12 Street Address: Enter the operator's parent company business, mailing, or residential street address.

II-13 SIC Code: If applicable, enter the operator's parent company primary SIC Code.

II-14 City: Enter the city of the operator's parent company business, mailing, or residential address.

II-15 State: Enter the two character alpha FIPS code for the state of the operator's parent company business, mailing, or residential address.

II-16 Zip Code: Enter the zip code of the operator's parent company business, mailing, or residential address.

III. Previous Operator(s)—Previous Operators' Parent Companies

III-01 Name: Enter the legal name of the previous operator. The previous operator may be a firm, government agency, association, individual, etc.

III-02 D&B Number: Enter the previous operator's Dun and Bradstreet number if available. If the previous operator was a federal agency, enter the GSA identification code if available.

III-03 Street Address: Enter the previous operator's business, mailing, or residential street address.

III-04 SIC Code: If applicable, enter the previous operator's primary SIC Code.

III-05 City: Enter the city of the previous operator's business, mailing, or residential address.

III-06 State: Enter the two character alpha FIPS code for the state of the previous operator's business, mailing, or residential address.

III-07 Zip Code: Enter the zip code of the previous operator's business, mailing, or residential address.

III-08 Years of Operation: Enter the beginning and ending years of operation for this operator at the site.

III-09 Name of Owner: Enter the name of the owner for

- 0 Name: If applicable, enter the legal name of the previous operator's parent company.
- III-11 D&B Number: Enter the previous operator's parent company Dun and Bradstreet number if available.
- III-12 Street Address: Enter the previous operator's parent company business, mailing, or residential street address.
- III-13 SIC Code: If applicable, enter the previous operator's parent company primary SIC Code.
- III-14 City: Enter the city of the previous operator's parent company business, mailing, or residential address.
- III-15 State: Enter the two character alpha FIPS code for the state of the previous operator's parent company business, mailing, or residential address.
- III-16 Zip Code: Enter the zip code of the previous operator's parent company business, mailing, or residential address.
- IV. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 9 Generator/Transporter Information
- *I. Identification: Refer to Part 1-I.
- II. On-Site Generator: A company or agency, located within the contiguous area of the site and generating waste disposed on the site, is entered here.
- II-01 Name: If there is an on-site generator, enter the legal name of the on-site generator. The on-site generator may be a firm or government agency.
- II-02 D&B Number: Where available, enter the on-site generator's D&B (Dun and Bradstreet) number. If the on-site generator is a federal agency, enter the GSA identification code.
- II-03 Street Address: Enter the business or mailing street address of the on-site generator.
- II-04 SIC Code: If applicable, enter the on-site generator's primary SIC Code.
- II-05 City: Enter the city of the on-site generator's business or mailing address.
- II-06 State: Enter the two character alpha FIPS code for the state of the on-site generator's business or mailing address.
- II-07 Zip Code: Enter the five digit zip code for the on-site generator's business or mailing address.
- III. Off-Site Generator(s): Those companies or agencies off-site who have generated waste which has been disposed at the site are listed here.
- III-01 Name: Enter the legal name of the off-site generator. The off-site generator may be a firm or government agency.

the off-site

- III-03 Street Address: Enter the business or mailing street address of the off-site generator.
- III-04 SIC Code: If applicable, enter the off-site generator's primary SIC Code.
- III-05 City: Enter the city of the off-site generator's business or mailing address.
- III-06 State: Enter the two character alpha FIPS code for the state of the off-site generator's business or mailing address.
- III-07 Zip Code: Enter the five digit zip code for the off-site generator's business or mailing address.
- IV. Transporter(s): Those carriers who are known to have transported waste to the site are listed here.
- IV-01 Name: Enter the legal name of the transporter. The transporter may be a firm, government agency, association, individual, etc.
- IV-02 D&B Number: Where available, enter the transporter's D&B (Dun and Bradstreet) number. If the transporter is a federal agency, enter the GSA identification code.
- IV-03 Street Address: Enter the business, mailing, or residential street address of the transporter.
- IV-04 SIC Code: If applicable, enter the transporter's primary SIC Code.
- IV-05 City: Enter the city of the transporter's business, mailing, or residential address.
- IV-06 State: Enter the two character alpha FIPS code for the state of the transporter's business, mailing, or residential address.
- IV-07 Zip Code: Enter the five digit zip code for the transporter's business, mailing, or residential address.
- V. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.
- Part 10 Past Response Activities
- *I. Identification: Refer to Part 1-I.
- II. Past Response Activities
- II-01 Past Response Activities: Check the appropriate box(es) to indicate response activities initiated prior to the passage of CERCLA, December, 1980.
- II-02 Date: Enter the start date (or approximate date) of the activity.
- II-03 Agency: Enter the name of the Agency responsible for the activity.
- II-04 Description: Provide a brief narrative description of the activity.
- III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the

SITE INSPECTION REPORT

Part 11 Enforcement Information

I. Identification: Refer to Part 1-I.

Enforcement Information

II-01 Past Regulatory/Enforcement Action: Check the appropriate box to indicate past regulatory or enforcement action at the federal, state, or local level related to this site.

II-02 Description of Federal, State, Local Regulatory or Enforcement Action: Provide a narrative description

of regulatory or enforcement action to date. Do not include any enforcement action contemplated in the process of development.

III. Sources of Information: List the sources used to obtain information for this form. Sources cited may include: sample analysis, reports, inspections, official records, or other documentation. Sources cited provide the basis for information entered on the form and may be used to obtain further information about the site.



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION**

I. IDENTIFICATION

01 STATE NC	02 SITE NUMBER D
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II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Town Creek Regional Waste Water Treatment		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Plant Heiligtown Road			
03 CITY Salisbury		04 STATE NC	05 ZIP CODE 28144	06 COUNTY Rowan	
09 COORDINATES LATITUDE 35° 41' 00" N LONGITUDE 080° 24' 40" W		10 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 10 9, 84 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION Late 1960's BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER			

05 CHIEF INSPECTOR William Meyer	06 TITLE Environmental Engineer	07 ORGANIZATION DHR/SHW	08 TELEPHONE NO. (919) 733-2178
09 OTHER INSPECTORS Gary Babb	10 TITLE Geologist	11 ORGANIZATION DHR/SHW	12 TELEPHONE NO. (919) 733-2178
Mark Durway	Geologist	DHR/SHW	(919) 733-2178
			()
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED Kelly Patton	14 TITLE Superintendent	15 ADDRESS P.O. Box 479 Salisbury, NC 28144	16 TELEPHONE NO. (704) 637-2200
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 1400-1700 hrs.	19 WEATHER CONDITIONS Sunny, 80 F
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IV. INFORMATION AVAILABLE FROM

01 CONTACT Harvey Mathias	02 OF (Agency/Organization) City Manager, City of Salisbury		03 TELEPHONE NO. (919) 637-2200
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM O. W. Strickland	05 AGENCY DHR	06 ORGANIZATION S&HW	07 TELEPHONE NO. 919/733-2178
			08 DATE 11, 2, 84 MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE: NC 02 SITE NUMBER: D

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION

Contaminated groundwater, if present, could potentially discharge into local creeks

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Unlikely

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

Alleged wastes are flammable

01 E. DIRECT CONTACT 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

Accidental excavation by plant employees, etc., would be possible

01 F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: < 2 (Acres) 04 NARRATIVE DESCRIPTION

01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 50 04 NARRATIVE DESCRIPTION

01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC D

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

Possible stunted growth of weeds at one of the alleged site locations

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

None observed

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

Not observed

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
(Spills/Runoff/Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION

Uncertain as to whether waste was poured directly into trenches, buried in drums, or both.

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

None observed

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

Possible as sites lie on WWTP property

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Uncertain as to who authorized waste disposal

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

Unknown

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

Lack of information as to types and amounts of waste buried, and whether or not material is containerized. Site locations not precisely known.

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

Site inspection, 10-9-84



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION**

I. IDENTIFICATION

01 STATE NC	02 SITE NUMBER D
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II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <i>(Check all that apply)</i>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCG PLAN				
<input type="checkbox"/> G. STATE <i>(Specify)</i>				
<input type="checkbox"/> H. LOCAL <i>(Specify)</i>				
<input type="checkbox"/> I. OTHER <i>(Specify)</i>				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL <i>(Check all that apply)</i>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <i>(Check all that apply)</i>	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT <input type="checkbox"/> B. PILES <input type="checkbox"/> C. DRUMS, ABOVE GROUND <input type="checkbox"/> D. TANK, ABOVE GROUND <input type="checkbox"/> E. TANK, BELOW GROUND <input type="checkbox"/> F. LANDFILL <input type="checkbox"/> G. LANDFARM <input type="checkbox"/> H. OPEN DUMP <input checked="" type="checkbox"/> OTHER <u>Burial</u> <i>(Specify)</i>			<input type="checkbox"/> A. INCENERATION <input type="checkbox"/> B. UNDERGROUND INJECTION <input type="checkbox"/> C. CHEMICAL/PHYSICAL <input type="checkbox"/> D. BIOLOGICAL <input type="checkbox"/> E. WASTE OIL PROCESSING <input type="checkbox"/> F. SOLVENT RECOVERY <input type="checkbox"/> G. OTHER RECYCLING/RECOVERY <input checked="" type="checkbox"/> H. OTHER <u>None</u> <i>(Specify)</i>	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE WWIP 06 AREA OF SITE <u>< 2</u> _____ <i>(Acres)</i>
07 COMMENTS				

IV. CONTAINMENT

01 CONTAINMENT OF WASTES <i>(Check one)</i>
<input type="checkbox"/> A. ADEQUATE, SECURE <input type="checkbox"/> B. MODERATE <input type="checkbox"/> C. INADEQUATE, POOR <input checked="" type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.
<p>Chemical wastes are thought to have been in liquid state, and were either buried in drums or poured directly into trenches.</p>

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
02 COMMENTS
<p>Easy access but unable to confirm exact site locations</p>

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

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**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA**

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER
NC | D

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY <i>(Check as applicable)</i>			02 STATUS			03 DISTANCE TO SITE	
COMMUNITY	SURFACE A. <input type="checkbox"/>	WELL B. <input type="checkbox"/>	ENDANGERED A. <input type="checkbox"/>	AFFECTED B. <input type="checkbox"/>	MONITORED C. <input type="checkbox"/>	A. _____ (mi)	
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	D. <input checked="" type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	B. <u>0.4</u> (mi)	

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY *(Check one)*

A. ONLY SOURCE FOR DRINKING B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)

C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available) D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER <u>unknown</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u>0.3</u> (mi)	
04 DEPTH TO GROUNDWATER <u>≥ 9</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>Unknown</u>	06 DEPTH TO AQUIFER OF CONCERN <u>Unknown</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>Unknown</u> (gpd)
		08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

09 DESCRIPTION OF WELLS *(Including usage, depth, and location relative to population and buildings)*

Two monitoring wells @ WWIP:
Upgradient water table @ 16.0'
Downgradient water table @ 9.5'

10 RECHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS <u>Possibly at nearby creeks</u>	11 DISCHARGE AREA <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS <u>Possibly at nearby creeks</u>
--	---	---	---

IV. SURFACE WATER

01 SURFACE WATER USE *(Check one)*

A. RESERVOIR, RECREATION DRINKING WATER SOURCE B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES C. COMMERCIAL, INDUSTRIAL D. NOT CURRENTLY USED

Town Creek

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>Town Creek and Local streams</u>	<input type="checkbox"/>	<u>0.2</u> (mi)
_____	<input type="checkbox"/>	_____ (mi)
_____	<input type="checkbox"/>	_____ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION	
ONE (1) MILE OF SITE A. <u>500</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>3000+</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>5000+</u> NO. OF PERSONS	<u>0.3</u> (mi)	

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE <u>200+</u>	04 DISTANCE TO NEAREST OFF-SITE BUILDING <u>0.3</u> (mi)
--	---

05 POPULATION WITHIN VICINITY OF SITE *(Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)*

Town Creek WWIP lies on the outskirts of town. An estimated 500 or more people live within a one-mile radius of the site.



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA**

I. IDENTIFICATION	
01 STATE NC	02 SITE NUMBER D

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one) Red Clay - Low
 A. $10^{-6} - 10^{-8}$ cm/sec B. $10^{-4} - 10^{-6}$ cm/sec C. $10^{-4} - 10^{-3}$ cm/sec D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one) Permeability through joints and fractures
 A. IMPERMEABLE (Less than 10^{-6} cm/sec) B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK unknown (ft)	04 DEPTH OF CONTAMINATED SOIL ZONE unknown (ft)	05 SOIL pH unknown
-------------------------------------	--	-----------------------

06 NET PRECIPITATION approx 45"/yr (in)	07 ONE YEAR 24 HOUR RAINFALL unknown (in)	08 SLOPE SITE SLOPE 1-2 %	DIRECTION OF SITE SLOPE SSE	TERRAIN AVERAGE SLOPE 5 %
--	--	---------------------------------	--------------------------------	------------------------------

09 FLOOD POTENTIAL
 SITE IS IN unknown YEAR FLOODPLAIN 10 SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
 N/A

11 DISTANCE TO WETLANDS (5 acre minimum) ESTUARINE A. _____ (mi) B. _____ (mi)	N/A OTHER _____ (mi)	12 DISTANCE TO CRITICAL HABITAT (of endangered species) N/A _____ (mi) ENDANGERED SPECIES: _____
---	----------------------------	---

13 LAND USE IN VICINITY.
 DISTANCE TO:
 COMMERCIAL/INDUSTRIAL RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES AGRICULTURAL LANDS
 PRIME AG LAND AG LAND
 A. 0.8 (mi) B. 0.4 (mi) C. _____ (mi) D. 0.2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY
 Slope ranges from slight to extreme. Several creeks in area including Town Creek.

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

USGS 7.5' Quad, Salisbury, NC 1962



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC D

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	1	State chem lab, NC	Presently
SURFACE WATER	1	State chem lab, NC	Presently
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	1	State chem lab, NC	Presently
VEGETATION			
OTHER Stream Sediment	1	State chem lab, NC	Presently

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	No field measurements, as precise site locations could not be confirmed

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input checked="" type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>DHR/Solid & Hazardous Waste Mgmt.</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Soil sample, provided by Kelly Patton, and supposedly contaminated with chemicals which were buried on site were tested for organics by EPA method 624; no compounds were identified.

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

Kelly Patton, Superintendent Water & WWTPs, Salisbury, NC



**POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION**

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D

II. CURRENT OWNER(S) **PARENT COMPANY (if applicable)**

01 NAME City of Salisbury			02 D+B NUMBER			08 NAME			09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.) P.O. Box 479				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE	
05 CITY Salisbury		06 STATE NC	07 ZIP CODE 28144		12 CITY			13 STATE	14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE		
01 NAME			02 D+B NUMBER			08 NAME			09 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE		

III. PREVIOUS OWNER(S) (List most recent first) **IV. REALTY OWNER(S) (if applicable; list most recent first)**

01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		05 CITY			06 STATE	07 ZIP CODE		
01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		05 CITY			06 STATE	07 ZIP CODE		
01 NAME			02 D+B NUMBER			01 NAME			02 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		05 CITY			06 STATE	07 ZIP CODE		

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



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

Note: Proctor Chemical Co. was established in 1938. At a later point in time, National Starch and Chemical Co. bought Proctor. On 1-3-83, Proctor Chemical was liquidated.

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
National Starch & Chemical Co.	NC D991278953		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
P.O. Box 399/Lumber St.			
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
Salisbury	NC 28144		
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
As above (presumed)			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

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



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER
NC | D

II. PAST RESPONSE ACTIVITIES

01 A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NO

01 H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Alleged in several locations, but details are incomplete.

01 I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Material allegedly buried in trenches

01 Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D

II PAST RESPONSE ACTIVITIES (Continued)

01 R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Easy access to sites

01 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

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



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

None

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

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Receipt for Samples

The samples described below were collected in connection with the administration, enforcement, and documentation of the:

- () North Carolina Hazardous Waste Management Rules, 10 NCAC 10F
- () North Carolina Solid Waste Management Rules, 10 NCAC 10G
- (X) Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- () Toxic Substances Control Act (TSCA). 15 U.S.C. §2601, et seq., specifically Section 11 of TSCA, 15 U.S.C. § 2610.

D. MARK DURWAY Inspector's Name
TOWN CREEK
SALISBURY WWTW Name of Firm

DHR/Solid & Haz Waste / Raleigh, NC Inspector's Address
Salisbury, NC Firm Address

City of Salisbury Firm Owner, Operator, or Agent
 _____ Title

SAMPLE NUMBER	COLLECTED		SAMPLE TYPE			DUPLICATE SAMPLES			SAMPLE LOCATION	
	DATE	TIME	WATER	SOIL	OTHER	OFFERED	ACCEPTED	REJECTED	ON-SITE	OFF-SITE
2618	10-19-84	PM		—		N/A	N/A	N/A	—	
1471	10-19-84	PM		—		"	"	"		

Receipt for the sample(s) described above is hereby acknowledged:

Receipt/rejection of duplicate or split samples is hereby acknowledged:

D. Mark Durway
 Signature of Inspector

 Title Geologist

 Signature of Firm Owner, Operator, or Agent

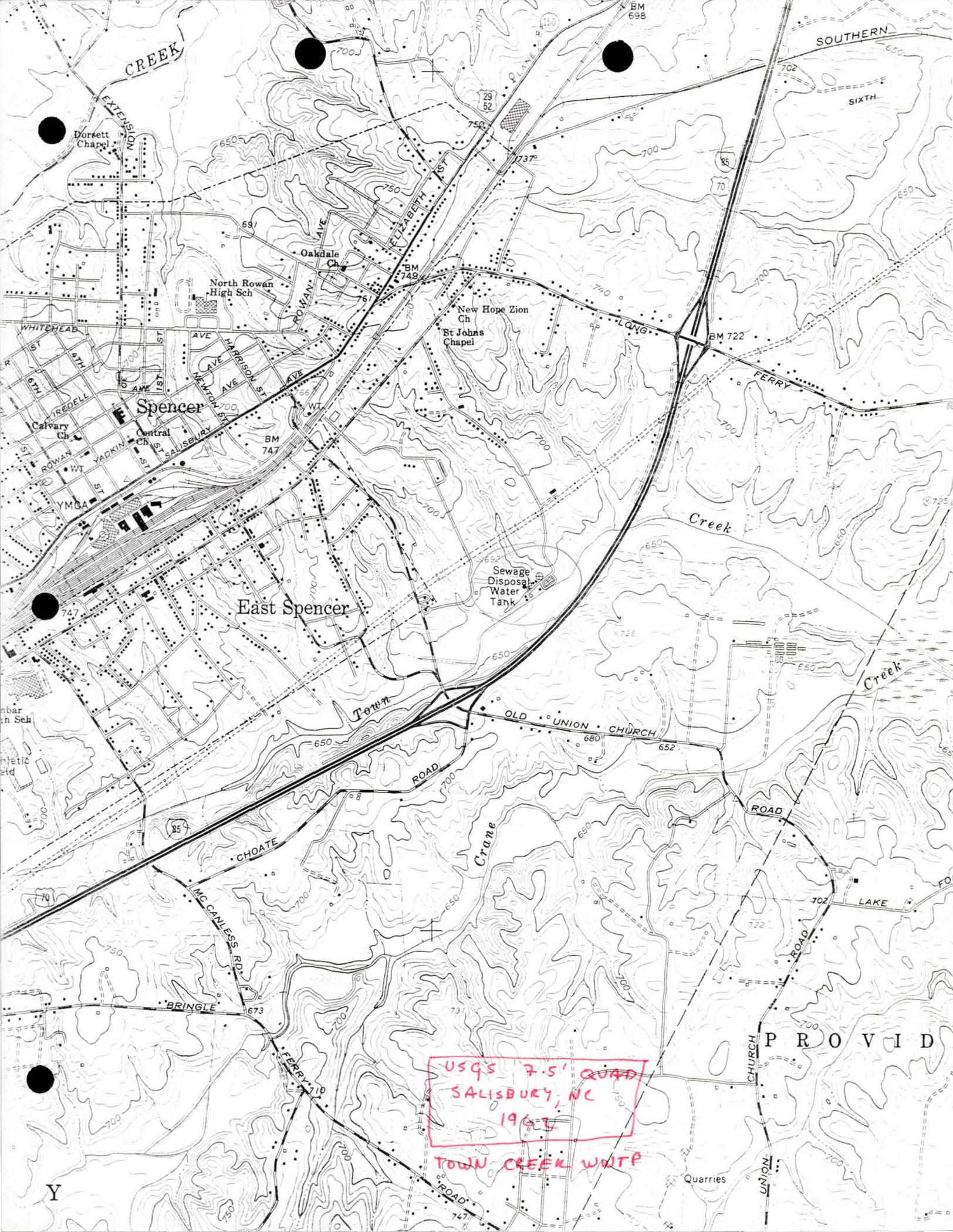
 Title

COMMENTS _____

Enclosed you will find two soil samples takes from Town Creek WWTP
location discussed per our conversation October 18, 1984.

- ① RECEIVED BY ME 24 OCT '84
- ② DIRECTED TO STATE LAB "

D. Mark Dunaway



CREEK

SOUTHERN

Dorsett Chapel

North Rowan High Sch

Spencer

East Spencer

Creek

Creek

Town

OLD UNION CHURCH

CHOATE ROAD

Crane

ROAD

LAKE

P R O V I D

USGS 7.5' QUAD
SALISBURY, NC
1967

TOWN CREEK WWTTP

Quarries

Y

N. C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

ORGANIC

Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
Storage Facility Disposal Facility Landfill
Other: _____

Company's Name Town Creek WWTP Telephone() _____
HELIXTOWN

Address Helix Road, Salisbury, NC 28144

Collector's Name KELLY PATTON Telephone (704) 637 2200
signature

Date Sampled 19 Oct 84 Time Sampled P.M.

Type of Process Generating Waste specialty chemicals (Proctor Chemical Co.)

Field Information

1471 / from alleged disposal site

Field Sample No. ~~1471~~ 1471

Chain of Possession:

1. KELLY PATTON Superintendent @ Salisbury 19 Oct 84
signature title inclusive dates
2. USPS Express Mail 19-22 Oct 84
signature title inclusive dates
3. D. Mark Durway / 3012 office Geologist 22-25 Oct 84
signature title inclusive dates

Results reported

signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICE
 SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Receipt for Samples

The samples described below were collected in connection with the administration, enforcement, and documentation of the:

- () North Carolina Hazardous Waste Management Rules, 10 NCAC 10F
- () North Carolina Solid Waste Management Rules, 10 NCAC 10G
- () Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- () Toxic Substances Control Act (TSCA) 15 U.S.C. §2601, et seq., specifically Section 11 of TSCA, 15 U.S.C. § 2610.

Inspector's Name _____ Inspector's Address _____

Name of Firm _____ Firm Address _____

Firm Owner, Operator, or Agent _____ Title _____

SAMPLE NUMBER	COLLECTED		SAMPLE TYPE			DUPLICATE SAMPLES			SAMPLE LOCATION	
	DATE	TIME	WATER	SOIL	OTHER	OFFERED	ACCEPTED	REJECTED	ON-SITE	OFF-SITE

Receipt for the sample(s) described above is hereby acknowledged:

Receipt/rejection of duplicate or split samples is hereby acknowledged:

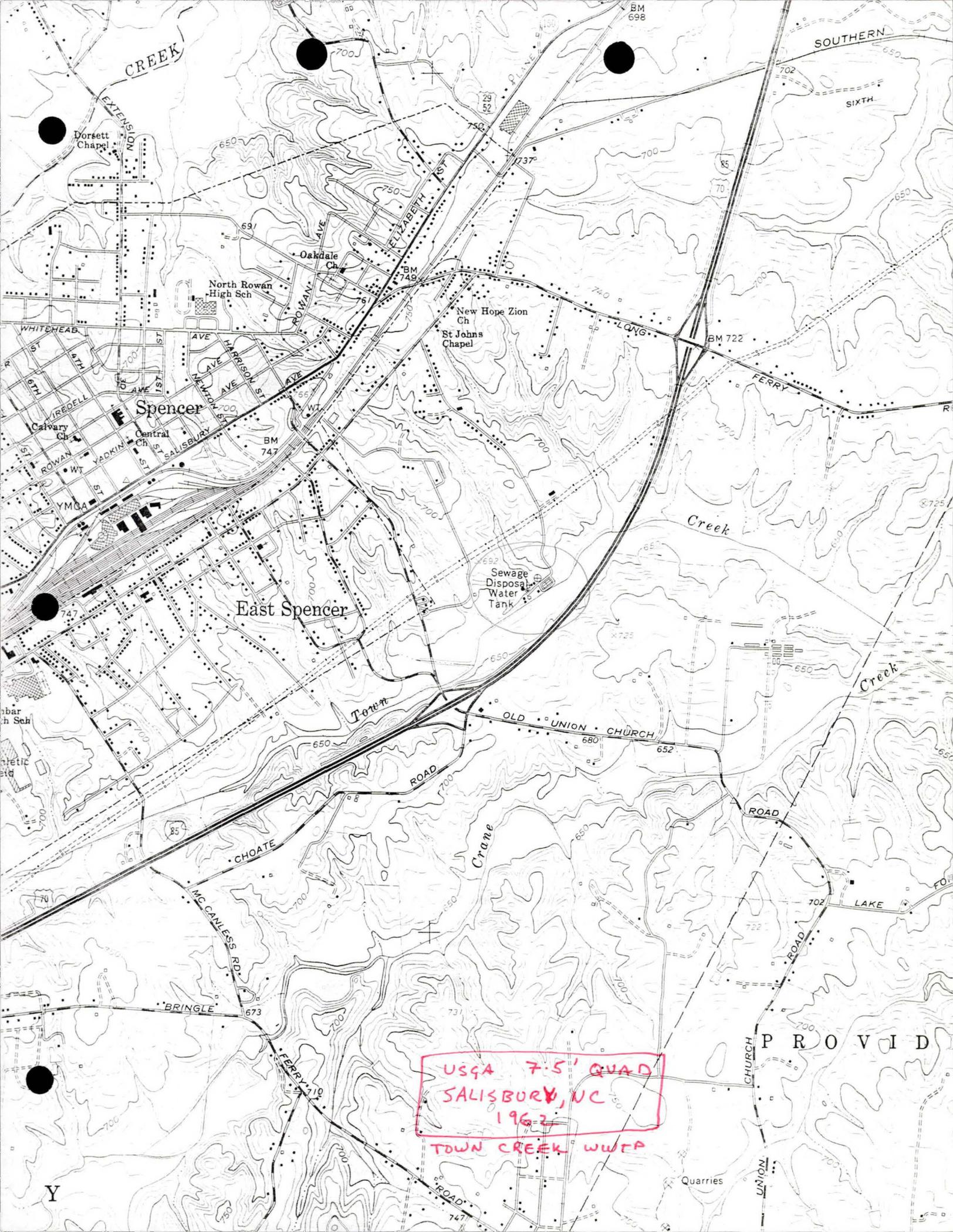
Signature of Inspector

Signature of Firm Owner, Operator, or Agent

Title

Title

COMMENTS



USGA 7.5' QUAD
SALISBURY, NC
1962
TOWN CREEK WWTP

Enclosed you will find two soil samples takes from Town Creek WWTP location discussed per our conversation October 18, 1984.

- ① RECEIVED BY ME 24 OCT '84
- ② DIRECTED TO STATE LAB "

D. Mark Durway

CONTACT :

MARK DORWAY, 2178
S.E.H.W.
3012 program

N.C. DEPARTMENT OF HUMAN RESOURCE
DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

A.S.A.P.

001471

Site Number _____ Field Sample Number 1 ~~INORGANIC~~

Name of Site TOWN CREEK WWT P Site Location SALISBURY, ROWAN Co., NC

Collected By Kelly Patton ID# City of Salisbury WWT P Superintendent Date Collected 10-19-84 Time PM

Type of Sample:

- | | | |
|--|-------------|----------------------------|
| Environmental | Concentrate | Comments |
| Groundwater | Solid | <u>Sample submitted in</u> |
| Surface Water | Liquid | <u>plastic container</u> |
| <input checked="" type="checkbox"/> Soil | Sludge | <u>poor seal</u> |
| Other | Other | |

(green dirt from site excavated by city 10-9-84)

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Asenic	_____	Asenic	_____	Chloride	_____
Barium	_____	Barium	_____	Conductivity	_____
Cadmium	_____	Cadmium	_____	Copper	_____
Chromium	_____	Chromium	_____	Fluoride	_____
Lead	_____	Lead	_____	Iron	_____
Mercury	_____	Mercury	_____	Manganese	_____
Selenium	_____	Selenium	_____	Nitrate	_____
Silver	_____	Silver	_____	pH	_____
_____	_____	_____	_____	Sulfates	_____
_____	_____	_____	_____	TDS	_____
_____	_____	_____	_____	Zinc	_____
_____	_____	_____	_____	TOC	_____

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	_____	Toxaphene	_____	PCB's	_____
Lindane	_____	2,4-D	_____	Petroleum	_____
Methoxychlor	_____	2,4,5-TP(Silvex)	_____	EDB	_____
<u>XYLENE</u>	} <u>a</u>	<u>METHANOL</u>	} <u>a</u>	TOX	_____
<u>TOLUENE</u>		<u>METHYLETHYL KETONE</u>		<u>METHYL ISOBUTYL KETONE</u>	} <u>a</u>
METHYLBENZENE	<u>1,2 Dichloroethane</u>	<u>ACETONE</u>			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls	Gross Alpha	_____
(MPN) Coliform Colonies/100mls	Gross Beta	_____

a No compounds identified by EPA method 624

Date Received 10/25/84 WLP Date Reported 10/1/84

Date Extracted _____ Date Analyzed _____

Reported By John R. Neal Lab Number 406037

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg
ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as ground-water, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

N. C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

ORGANIC

Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
Storage Facility Disposal Facility Landfill
Other: _____

Company's Name Town Creek WWTP Telephone() _____
~~Eligrow~~

Address Millington Road, Salisbury, NC 28144

Collector's Name KELLY PATTON Telephone(704) 637 2200
signature _____

Date Sampled 19 Oct 84 Time Sampled PM

Type of Process Generating Waste specialty chemicals (Proctor Chemical Co.)

Field Information

1471 / from alleged disposal site

Field Sample No. ~~1472~~ 1471

Chain of Possession:

1. KELLY PATTON Superintendent @ Salisbury 19 Oct 84
signature title inclusive dates
2. VSPS Express Mail _____ 19-22 Oct 84
signature title inclusive dates
3. D. Mark Durway / 3012 office Geologist 22-25 Oct 84
signature title inclusive dates

Results reported

signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Receipt for Samples

The samples described below were collected in connection with the administration, enforcement, and documentation of the:

- () North Carolina Hazardous Waste Management Rules, 10 NCAC 10F
- () North Carolina Solid Waste Management Rules, 10 NCAC 10G
- () Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- () Toxic Substances Control Act (TSCA) 15 U.S.C. §2601, et seq., specifically Section 11 of TSCA, 15 U.S.C. § 2610.

Inspector's Name _____ Inspector's Address _____

Name of Firm _____ Firm Address _____

Firm Owner, Operator, or Agent _____ Title _____

SAMPLE NUMBER	COLLECTED		SAMPLE TYPE			DUPLICATE SAMPLES			SAMPLE LOCATION	
	DATE	TIME	WATER	SOIL	OTHER	OFFERED	ACCEPTED	REJECTED	ON-SITE	OFF-SITE

Receipt for the sample(s) described above is hereby acknowledged:

Receipt/rejection of duplicate or split samples is hereby acknowledged:

Signature of Inspector

Signature of Firm Owner, Operator, or Agent

Title

Title

COMMENTS

MARK DURWAY, 217
S & HW
3012 program

N. C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

A.S.A.F.
002618
I-ORGANIC

Site Number _____ Field Sample Number _____
Name of Site TOWN CREEK WWTP Site Location SALISBURY, ROWAN Co., NC
Collected By KELLY PATTON ID# CITY OF SALISBURY SUPERINTENDENT Date Collected 10-19-84 Time PM
Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Sample submitted in</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	<u>plastic container</u>
<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sludge	<u>poor seal.</u>
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
< Arsenic	<u><0.01</u>	✓ Arsenic	<u>3.8</u>	Chloride	_____
Barium	_____	Barium	_____	Conductivity	_____
✓ Cadmium	<u><0.05</u>	✓ Cadmium	<u>2.8</u>	Copper	_____
✓ Chromium	<u><0.05</u>	✓ Chromium	<u>390</u>	Fluoride	_____
✓ Lead	<u><0.1</u>	✓ Lead	<u>120</u>	Iron	_____
✓ Mercury	<u><0.02</u>	✓ Mercury	<u>0.48</u>	Manganese	_____
✓ Selenium	<u><0.005</u>	✓ Selenium	<u><1.6</u>	Nitrate	_____
✓ Silver	<u><0.05</u>	✓ Silver	<u><2.4</u>	pH	_____
✓ <u>Sb (ANTIMONY)</u>	<u>0.35</u>	✓ <u>Sb</u>	<u>3.6</u>	Sulfates	_____
✓ Cu	<u><0.05</u>	✓ Cu	<u>88</u>	TDS	_____
✓ Zn	<u>0.47</u>	✓ Zn	<u>200</u>	Zinc	_____
				TOC	_____

→
SIGNIFICANCE?

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	_____	Toxaphene	_____	PCB's	_____
Lindane	_____	2,4-D	_____	Petroleum	_____
Methoxychlor	_____	2,4,5-TP (Silvex)	_____	EDB	_____
				TOX	_____

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls	Gross Alpha	_____
(MPN) Coliform Colonies/100mls	Gross Beta	_____

Date Received _____ Date Reported 4 Dec 84
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 45869 OCT 29 84

* PRESSON TRIGG, phoned Tuesday, Oct 9, 87, in Salisbury
~~Proctor~~ (Salisbury Post); he wishes to publish that
S.P. will be trying to contact former employees.

JACK HOLBROOK - city employee @ Grant Creek

SABRINA EVERY, cont. to KELLY PATTON

Great Creek
and Town Creek
G.C. 2 sites @ Grant Creek
50-60 bbls @ 2 sites
plant gates - right around bldg
- post trickle filters (on left) -
till rd ends @ aer. basin -
so left around basin to far
left side - get to 2 (out of
6) motor - STOP - look in
left (ravine). there you are 50'
inside fence.

many more @ G.C. than T.C.
by private contractor

Atthey - drove truck (clines
in Charlotte) for Proctor
father used to work for city.
father's name: Cordell Atthey (who is city
get payroll list 10T learn
employees names who
might know something.

in W. Va
Depart
Salisb
he is a
justice

for
city

Francis Luther

'71-82: city manager
" treasurer
prior to 82

C. In.

(OVER) →

Natl Starch & Chem Corporation (Plainfield, NJ)

←

Proctor Chemical Co. Inc. (liquidated 3 Jan '83) to become)

PO 397

Lumber St

Salisbury, NC 28144

WL Beaumont, pres

est. 1934

TEL 704/633-1731

Products: resins, catalysts, softeners, misc. cyclic and acrylic chemicals, urea, formaldehyde, ethylene diamine.

NATL STARCH: (3 FILES FOR SALISBURY)

① → NCD 048469993

1,2 - DCE (dichloroethane)

H₂SO₄

② → NCD 048469893

notes from ZANE BROWN of Natl Starch

Leland Chemical Co - (pre Natl Starch subsidiary) → liquidated

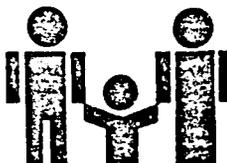
WASTE CHEMS.

1,2 DCE

TOLUENE

ETH. BENZENE

Xylenes



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

October 15, 1984

Mr. Preston Trigg
The Post Publishing Co., Inc.
Salisbury, N.C. 28144

Dear Preston:

As a follow-up to our telephone conversation this morning, I am requesting the following information:

- 1) Anonymous statements from persons you have been in contact with who are knowledgeable of the alleged burial of hazardous waste substances by Proctor Chemical Co., at either the Grant Creek or Town Creek Waste Water Treatment Plant properties, during the late 1960s. Please include information as to precise locations of sites, site dimensions and burial depths, waste quantities, whether or not waste was in drums, approximate disposal dates, etc.
- 2) Maps or sketches, from persons you have interviewed, which might help to identify site locations, dimensions, etc.
- 3) Newspaper clips from The Salisbury Post pertaining to Proctor Chemical Company, or National Starch and Chemical Corporation.

I appreciate all of your time and effort, and look forward to receiving any information that you feel you can provide. Please contact me at 919/733-2178 if I can be of any assistance to you.

Sincerely,

D. Mark Durway

D. Mark Durway, Geologist
Solid & Hazardous Waste Management Branch
Environmental Health Section

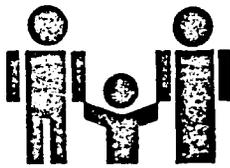
DMD/lw

Enclosures



Town Creek
1977





Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

October 15, 1984

Mr. Harvey Mathias
City Manager
City of Salisbury
Salisbury, NC 28144

Dear Mr. Mathias:

On October 9, 1984, Mark Durway, Gary Babb, and I conducted site investigations at the Grant Creek and Town Creek Waste Water Treatment Plants in Salisbury. The purpose was to identify locations on the plant properties which were allegedly used by Proctor Chemical Company to dispose of hazardous wastes during the late 1960s. Kelly Patton and Sabrina Eury of the Salisbury Department of Water Treatment accompanied us during our site investigations, and Jack Holbrook, city employee, attempted to identify two of the sites for us at Grant Creek.

Lack of detailed information as to where the alleged sites lie hindered our investigation; therefore, I am requesting your assistance in gathering useful testimony from current or former employees who might have witnessed, or at some point gained knowledge of, the burial of hazardous waste at the Grant Creek or Town Creek Waste Water Treatment Plant properties.

I appreciate your willingness to actively participate in the investigation of the two waste water treatment plant facilities. Please contact me at 919/733-2178, if I may be of assistance.

Sincerely,

William L. Meyer, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section



MARK

10/15/84 10:45

HARVEY MATTHIAS Salisbury City Mgr.
CALLED

- HAVE identified an employee that may have specific knowledge of buried site at Town Creek WWTP
- They will excavate and notify us if they find anything (I told him we did not want to come down unless they found something & it was not necessary for us to be there during excavation)
- told him to mark spots where he excavated - if nothing was found at least we would know the spot had been evaluated
- He also informed me that Nat Storch had located an individual who may have dumped materials & will get in touch with us.

(from BILL MEYER)

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

RUSH

Site Number 80-000001002X Field Sample Number 1584
 Name of Site Town Creek WWTP Site Location Salisbury
 Collected By Bobo ID# 12 Date Collected 10/10/84 Time 2:00 PM
 Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>WELL TU</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	_____
<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge	_____
<input type="checkbox"/> Other	<input type="checkbox"/> Other	_____

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
___ Arsenic	_____	___ Arsenic	_____	___ Chloride	_____
___ Barium	_____	___ Barium	_____	___ Conductivity	_____
___ Cadmium	_____	___ Cadmium	_____	___ Copper	_____
___ Chromium	_____	___ Chromium	_____	___ Fluoride	_____
___ Lead	_____	___ Lead	_____	___ Iron	_____
___ Mercury	_____	___ Mercury	_____	___ Manganese	_____
___ Selenium	_____	___ Selenium	_____	___ Nitrate	_____
___ Silver	_____	___ Silver	_____	___ pH	_____
___	_____	___	_____	___ Sulfates	_____
___	_____	___	_____	___ TDS	_____
___	_____	___	_____	___ Zinc	_____
___	_____	___	_____	___ TOC	_____
___	_____	___	_____	___	_____
___	_____	___	_____	___	_____



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
___ Endrin	_____	___ Toxaphene	_____	___ PCB's	_____
___ Lindane	_____	___ 2,4-D	_____	___ Petroleum	_____
___ Methoxychlor	_____	___ 2,4,5-TP (Silvex)	_____	___ EDB	_____
___	_____	✓ <u>P&T-GC/MS No purgeables detected by EPA Method 624.</u>	_____	___ TOX	<u>~15.6 ug/cc</u>
___	_____	___	_____	___	_____
___	_____	___	_____	___	_____

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results
___ (MF) Coliform Colonies/100mls	___ Gross Alpha	_____
___ (MPN) Coliform Colonies/100mls	___ Gross Beta	_____
___	___	_____
___	___	_____

Date Received 10/11/84 J.P. Date Reported 10/19/84
 Date Extracted 10/16/84 n.w. Date Analyzed TOX 10/16/84 n.w.
 Reported By John L. Neil Lab Number 405661

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\begin{aligned} \text{ppm} &= \mu\text{g/ml} = \text{mg/l} = \mu\text{g/g} = \text{mg/kg} \\ \text{ppb} &= \mu\text{g/l} = \mu\text{g/1000g} = \mu\text{g/kg} \end{aligned}$$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

RUSH

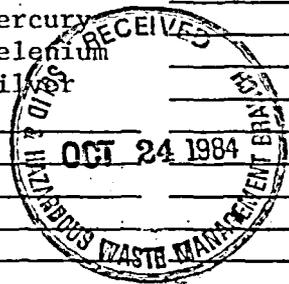
N. CAROLINA DEPARTMENT OF HUMAN RESOURCE
DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 80-000001002X Field Sample Number 1585
 Name of Site Town Creek WWTP Site Location Salisbury
 Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:30 PM
 Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Stream sample</u>
<input checked="" type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input type="checkbox"/> Arsenic		<input type="checkbox"/> Chloride	
<input type="checkbox"/> Barium		<input type="checkbox"/> Barium		<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Cadmium		<input type="checkbox"/> Cadmium		<input type="checkbox"/> Copper	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chromium		<input type="checkbox"/> Fluoride	
<input type="checkbox"/> Lead		<input type="checkbox"/> Lead		<input type="checkbox"/> Iron	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Mercury		<input type="checkbox"/> Manganese	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Selenium		<input type="checkbox"/> Nitrate	
<input type="checkbox"/> Silver		<input type="checkbox"/> Silver		<input type="checkbox"/> pH	
				<input type="checkbox"/> Sulfates	
				<input type="checkbox"/> TDS	
				<input type="checkbox"/> Zinc	
				<input type="checkbox"/> TOC	



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Endrin		<input type="checkbox"/> Toxaphene		<input type="checkbox"/> PCB's	
<input type="checkbox"/> Lindane		<input type="checkbox"/> 2,4-D		<input type="checkbox"/> Petroleum	
<input type="checkbox"/> Methoxychlor		<input type="checkbox"/> 2,4,5-TP (Silvex)		<input type="checkbox"/> EDB	
		<input checked="" type="checkbox"/> PET-GC/MS	<u>No surrogates detected by EPA Method 62K.</u>	<input type="checkbox"/> TOX	<u>8.8 ug/l</u>

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received 10/11/84 V.P. Date Reported 10/19/84
 Date Extracted 10/17/84 P/T 10/18/84 Date Analyzed 10/17/84 (TOX) NW
 Reported By John R. Neal Lab Number 405667

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml} = \text{mg/l} = \mu\text{g/g} = \text{mg/kg}$
ppb = $\mu\text{g/l} = \mu\text{g/1000g} = \mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as ground-water, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

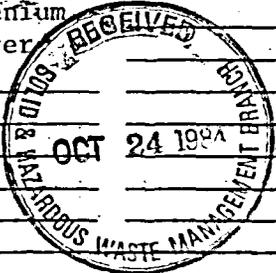
RUSH

Site Number 80-000001002 X Field Sample Number 1586
 Name of Site Town Creek WWTTP Site Location Salisbury
 Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:45 PM
 Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Stream sediment sample</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input type="checkbox"/> Arsenic		<input type="checkbox"/> Chloride	
<input type="checkbox"/> Barium		<input type="checkbox"/> Barium		<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Cadmium		<input type="checkbox"/> Cadmium		<input type="checkbox"/> Copper	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chromium		<input type="checkbox"/> Fluoride	
<input type="checkbox"/> Lead		<input type="checkbox"/> Lead		<input type="checkbox"/> Iron	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Mercury		<input type="checkbox"/> Manganese	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Selenium		<input type="checkbox"/> Nitrate	
<input type="checkbox"/> Silver		<input type="checkbox"/> Silver		<input type="checkbox"/> pH	
				<input type="checkbox"/> Sulfates	
				<input type="checkbox"/> TDS	
				<input type="checkbox"/> Zinc	
				<input type="checkbox"/> TOC	



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Endrin		<input type="checkbox"/> Toxaphene		<input type="checkbox"/> PCB's	
<input type="checkbox"/> Lindane		<input type="checkbox"/> 2,4-D		<input type="checkbox"/> Petroleum	
<input type="checkbox"/> Methoxychlor		<input type="checkbox"/> 2,4,5-TP (Silvex)		<input type="checkbox"/> EDB	
				<input type="checkbox"/> TOX	
		<input checked="" type="checkbox"/> <u>PTT/GC-MS No purgeables detected by EPA Method 624</u>			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received 10/11/84 U.P. Date Reported 10/19/84
 Date Extracted _____ Date Analyzed _____
 Reported By John R. Neal Lab Number 405662

GENERAL INFORMATION

A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radio-chemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

ppm = $\mu\text{g/ml}$ = mg/l = $\mu\text{g/g}$ = mg/kg
ppb = $\mu\text{g/l}$ = $\mu\text{g/1000g}$ = $\mu\text{g/kg}$

DEFINITIONS/INSTRUCTIONS

Site Number - A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number - A six-digit sample identifier which is pre-printed on the sample label.

Name of Site - Name of landfill, facility, etc.

Site Location - Address, street number, state road, etc.

Collected By - Name and ID of sample collector.

Date and Time Collected - Self-explanatory.

Environmental - A sample of a naturally occurring substance such as ground-water, surface water or soils which may be contaminated.

Concentrate - A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments - Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry - Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry - Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry - The Raleigh office should be consulted prior to sampling for either of these.

N. C. DEPARTMENT OF HUMAN RESOURCE
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 80-000001002 X Field Sample Number 1609
 Name of Site Town Creek WWT Site Location Salisbury
 Collected By Bobb ID# 12 Date Collected 10/10/84 Time 2:00 PM

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>WELL TU</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	
<input type="checkbox"/> Soil	<input type="checkbox"/> Sludge	
<input type="checkbox"/> Other	<input type="checkbox"/> Other	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Chloride	<u>2</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input checked="" type="checkbox"/> Conductivity	<u>114 u/mhos</u>
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Copper	<u><0.05</u>
<input type="checkbox"/> Chromium		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Lead	<u><0.23</u>	<input checked="" type="checkbox"/> Iron	<u>5.14</u>
<input type="checkbox"/> Mercury		<input checked="" type="checkbox"/> Mercury	<u>50.0002</u>	<input checked="" type="checkbox"/> Manganese	<u>0.99</u>
<input type="checkbox"/> Selenium		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input checked="" type="checkbox"/> Nitrate	<u>3.8</u>
<input type="checkbox"/> Silver		<input checked="" type="checkbox"/> Silver	<u><0.05</u>	<input checked="" type="checkbox"/> pH	<u>6.4</u>
		<input checked="" type="checkbox"/> Sb	<u><0.05</u>	<input checked="" type="checkbox"/> Sulfates	<u>5</u>
				<input checked="" type="checkbox"/> TDS	<u>155</u>
				<input checked="" type="checkbox"/> Zinc	<u>0.05</u>
				<input checked="" type="checkbox"/> TOC	<u>8</u>



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Endrin		<input type="checkbox"/> Toxaphene		<input type="checkbox"/> PCB's	
<input type="checkbox"/> Lindane		<input type="checkbox"/> 2,4-D		<input type="checkbox"/> Petroleum	
<input type="checkbox"/> Methoxychlor		<input type="checkbox"/> 2,4,5-TP(Silvex)		<input type="checkbox"/> EDB	
				<input type="checkbox"/> TOX	

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 10-31-84
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 44444 OCT 12 84

N. C. DEPARTMENT OF HUMAN RESOURCES
 DIVISION OF HEALTH SERVICES
 STATE LABORATORY OF PUBLIC HEALTH
 P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number 80-000001602X Field Sample Number 1610
 Name of Site Town Creek WWTP Site Location Salisbury
 Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:30 PM

Type of Sample:

Environmental	Concentrate	Comments
<u>Groundwater</u>	<u>Solid</u>	<u>Stream sample</u>
<input checked="" type="checkbox"/> <u>Surface Water</u>	<u>Liquid</u>	
<u>Soil</u>	<u>Sludge</u>	
<u>Other</u>	<u>Other</u>	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Chloride	<u>7</u>
— Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input checked="" type="checkbox"/> Conductivity	<u>180 μ mhos</u>
— Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Copper	<u><0.05</u>
— Chromium		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>
— Lead		<input checked="" type="checkbox"/> Lead	<u><0.03</u>	<input checked="" type="checkbox"/> Iron	<u>0.15</u>
— Mercury		<input checked="" type="checkbox"/> Mercury	<u><0.002</u>	<input checked="" type="checkbox"/> Manganese	<u>0.06</u>
<input checked="" type="checkbox"/> Selenium		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input checked="" type="checkbox"/> Nitrate	<u>1.1</u>
— Silver		<input checked="" type="checkbox"/> Silver	<u><0.05</u>	<input checked="" type="checkbox"/> pH	<u>7.6</u>
		<input checked="" type="checkbox"/> Sb	<u><0.05</u>	<input checked="" type="checkbox"/> Sulfates	<u>4</u>
				<input checked="" type="checkbox"/> TDS	<u>135</u>
				<input checked="" type="checkbox"/> Zinc	<u><0.05</u>
				<input checked="" type="checkbox"/> TOC	<u>5</u>



ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Endrin		— Toxaphene		— PCB's	
— Lindane		— 2,4-D		— Petroleum	
— Methoxychlor		— 2,4,5-TP (Silvex)		— EDB	
				— TOX	

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
— (MF) Coliform Colonies/100mls	— Gross Alpha	
— (MPN) Coliform Colonies/100mls	— Gross Beta	

Date Received _____ Date Reported 10-31-84
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 44445 OCT 12 84

N.C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
STATE LABORATORY OF PUBLIC HEALTH
P. O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Site Number _____ Field Sample Number 1611

Name of Site Town Creek WWTP Site Location Salisbury

Collected By Babb ID# 12 Date Collected 10/10/84 Time 1:45 PM

Type of Sample:

Environmental	Concentrate	Comments
<input type="checkbox"/> Groundwater	<input type="checkbox"/> Solid	<u>Stream sediment sample</u>
<input type="checkbox"/> Surface Water	<input type="checkbox"/> Liquid	_____
<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sludge	_____
<input type="checkbox"/> Other	<input type="checkbox"/> Other	_____

INORGANIC CHEMISTRY

Extractables		Total		Parameter	Results mg/l
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u><0.47</u>	Chloride	_____
<input checked="" type="checkbox"/> Barium	<u>0.1</u>	<input checked="" type="checkbox"/> Barium	<u>38</u>	Conductivity	_____
<input checked="" type="checkbox"/> Cadmium	<u><0.05</u>	<input checked="" type="checkbox"/> Cadmium	<u><2.4</u>	Copper	_____
<input checked="" type="checkbox"/> Chromium	<u><0.05</u>	<input checked="" type="checkbox"/> Chromium	<u>33</u>	Fluoride	_____
<input checked="" type="checkbox"/> Lead	<u><0.1</u>	<input checked="" type="checkbox"/> Lead	<u>4.7</u>	Iron	_____
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	<input checked="" type="checkbox"/> Mercury	<u><0.08</u>	Manganese	_____
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input checked="" type="checkbox"/> Selenium	<u><2.4</u>	Nitrate	_____
<input checked="" type="checkbox"/> Silver	<u><0.05</u>	<input checked="" type="checkbox"/> Silver	<u><2.4</u>	pH	_____
_____	_____	_____	_____	Sulfates	_____
_____	_____	_____	_____	TDS	_____
_____	_____	_____	_____	Zinc	_____
_____	_____	_____	_____	TOC	_____

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
Endrin	_____	Toxaphene	_____	PCB's	_____
Lindane	_____	2,4-D	_____	Petroleum	_____
Methoxychlor	_____	2,4,5-TP(Silvex)	_____	EDB	_____
_____	_____	_____	_____	TOX	_____
_____	_____	_____	_____	_____	_____

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Results	Parameter	Results PCi/l
(MF) Coliform Colonies/100mls	_____	Gross Alpha	_____
(MPN) Coliform Colonies/100mls	_____	Gross Beta	_____
_____	_____	_____	_____
_____	_____	_____	_____

Date Received _____ Date Reported 30 Nov 84

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 44400 OCT 11 84

DATE: 8 October 1984

TO: File

FROM: Lee Crosby

RE: Site Inspection
Town Creek Regional Waste Water Treatment Plant

A site inspection has been scheduled for Tuesday, 9 October 1984 by the N.C. Solid and Hazardous Waste Management Branch. Environmental Engineer, Bill Meyer, and Geologist, Gary Babb, plan to locate the buried drums by auger borings and magnetometer readings. The two monitoring wells at the treatment plant will be sampled for volatile organics as well as other parameters. Additional sampling points will be determined on site. RCRA 3012 Geologist, Mark Durway, will assist.

LC/lw



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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NC	D980843528

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Town Creek Regional Waste Water Treatment Plant		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Heiligtown Road			
03 CITY Salisbury	04 STATE NC	05 ZIP CODE 28144	06 COUNTY Rowan	07 COUNTY CODE 80	08 CONG DIST 08
09 COORDINATES LATITUDE 3 5 41 00 N		LONGITUDE 080 24 40 W			

10 DIRECTIONS TO SITE (Starting from nearest public road)
Travel south on I-85 from Greensboro. Take the Spencer exit. Travel into Spencer on Hwy. 29. At the first traffic light, turn onto Heiligtown Road. The Town Creek plant is located approximately one mile from the intersection.

III. RESPONSIBLE PARTIES

01 OWNER (If known) City of Salisbury		02 STREET (Business, mailing, residential) Post Office Box 479			
03 CITY Salisbury	04 STATE NC	05 ZIP CODE 28144	06 TELEPHONE NUMBER (704) 637-2200		
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) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> 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 <input type="checkbox"/> YES DATE ____/____/____ MONTH DAY YEAR <input checked="" type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION late 1960's early 1970's <input type="checkbox"/> UNKNOWN <small>BEGINNING YEAR ENDING YEAR</small>			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
The City of Salisbury has received reports that National Starch and Chemical Company (NC D991278953) was allowed to dump waste solvents into the WWTP and then bury the drums on site at the WWTP.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Waste streams from National Starch include xylene, toluene, methanol, methyl ethyl ketone and isobutyl ketone. A site inspection is recommended to locate the burial site and to sample the two monitoring wells for volatile organics.

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 Kelly Patton		02 OF (Agency/Organization) Superintendent of Water and Waste Water Treatment - City of Salisbury		03 TELEPHONE NUMBER (704) 637-2200	
04 PERSON RESPONSIBLE FOR ASSESSMENT O.W. Strickland		05 AGENCY NC DHR/DHS	06 ORGANIZATION Solid & Haz. Waste	07 TELEPHONE NUMBER (919) 733-2178	08 DATE 10 / 5 / 84 <small>MONTH DAY YEAR</small>



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN 04 NARRATIVE DESCRIPTION

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN 04 NARRATIVE DESCRIPTION

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: NA 04 NARRATIVE DESCRIPTION

UNLIKELY

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

ALLEGEDLY DUMPED CHEMICALS ARE FLAMMABLE

01 E. DIRECT CONTACT 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

01 F. CONTAMINATION OF SOIL 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: 2 04 NARRATIVE DESCRIPTION
(Acres)

01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 50 04 NARRATIVE DESCRIPTION

01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

01 I. POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION



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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

NONE OBSERVED

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

NONE OBSERVED

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

NOT OBSERVED

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
(Spills/runoff/standing liquids/leaking drums)
03 POPULATION POTENTIALLY AFFECTED: 10 04 NARRATIVE DESCRIPTION

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

NONE OBSERVED

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

Possible as waste was disposed of
on WWTP property.

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Unknown as to who authorized
dumping on site.

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

UNKNOWN

III. TOTAL POPULATION POTENTIALLY AFFECTED: UNKNOWN

IV. COMMENTS

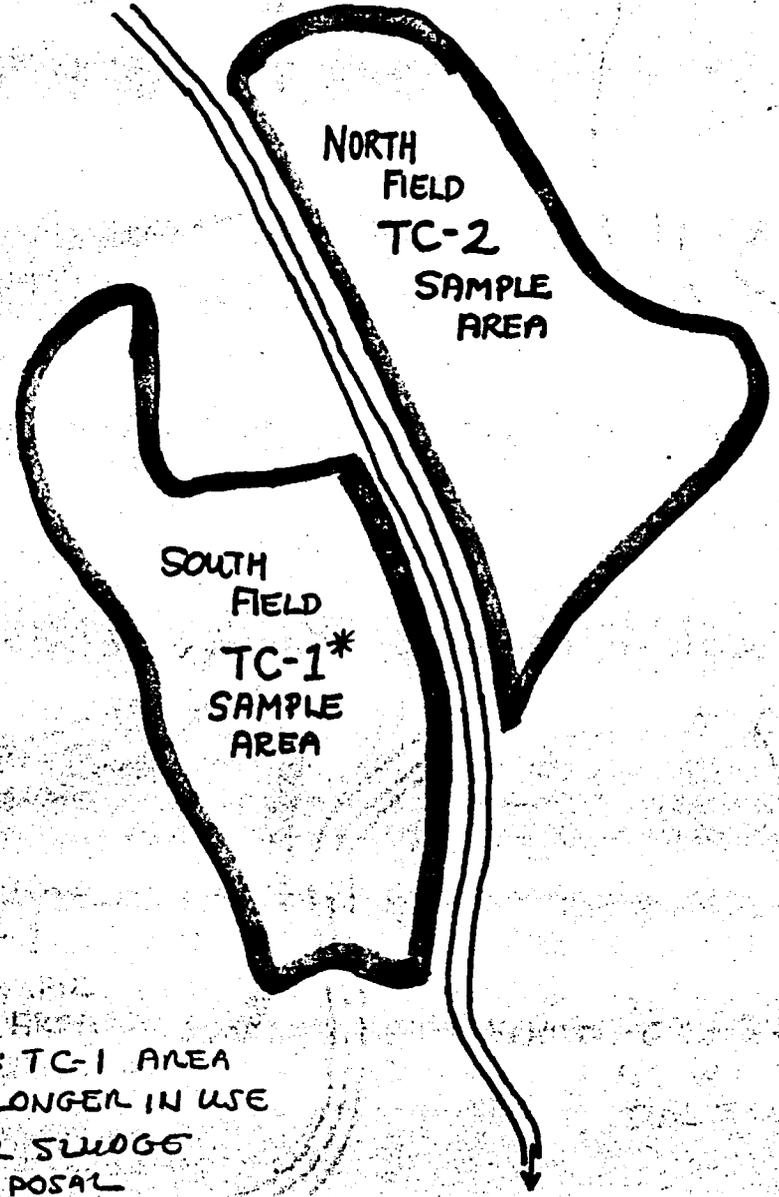
Precise locations of two burial sites are not
known, nor is their information on the volumes
of chemicals disposed of.

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

site inspection, 10-9-84

TOWN CREEK WWTP
SOIL SAMPLE AREAS

HEILIGSTEIN ROAD



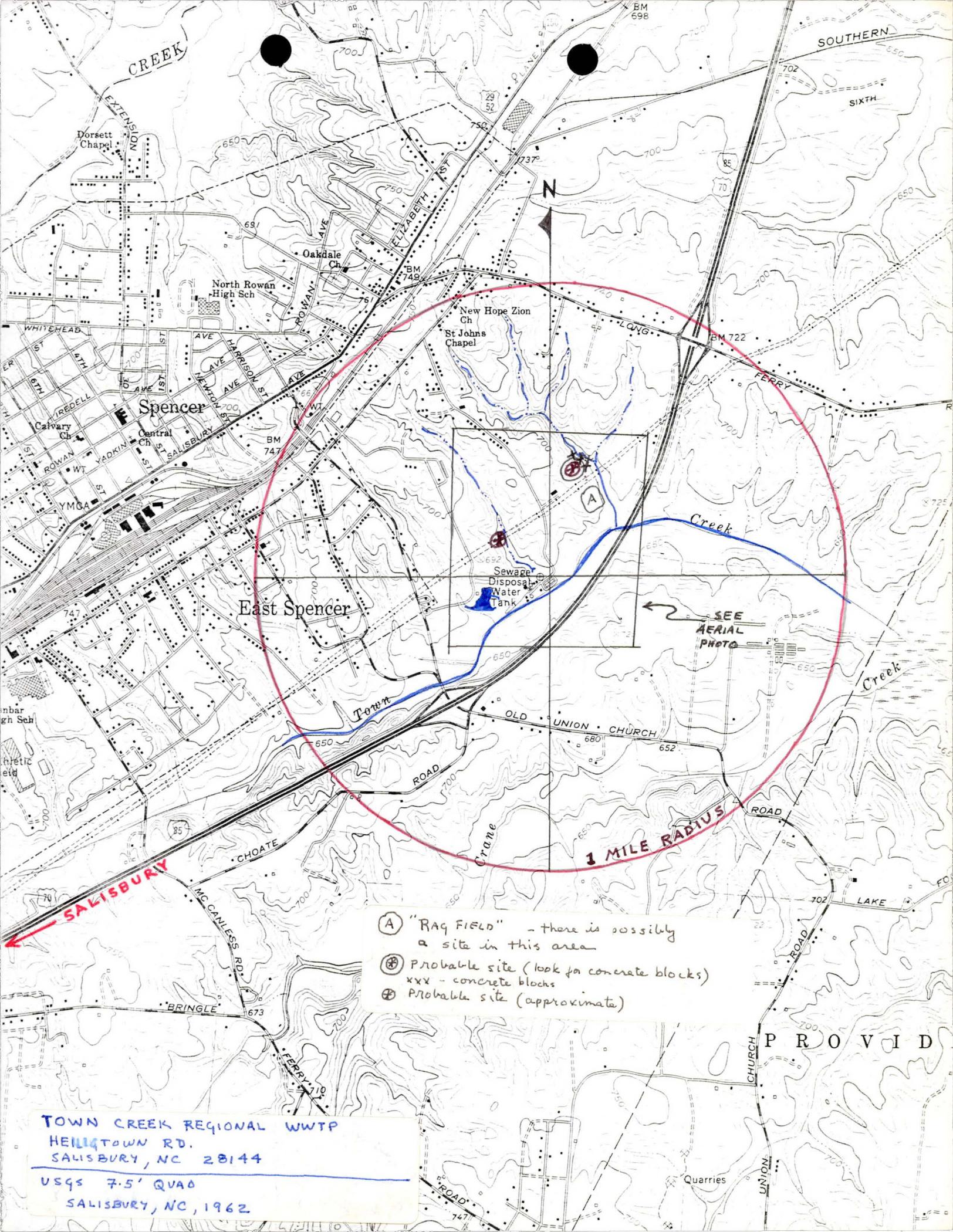
NORTH
FIELD
TC-2
SAMPLE
AREA

SOUTH
FIELD
TC-1*
SAMPLE
AREA

TOWN CREEK WWTP

INTERSTATE I-85

*NOTE: TC-1 AREA
NO LONGER IN USE
FOR SLUDGE
DISPOSAL

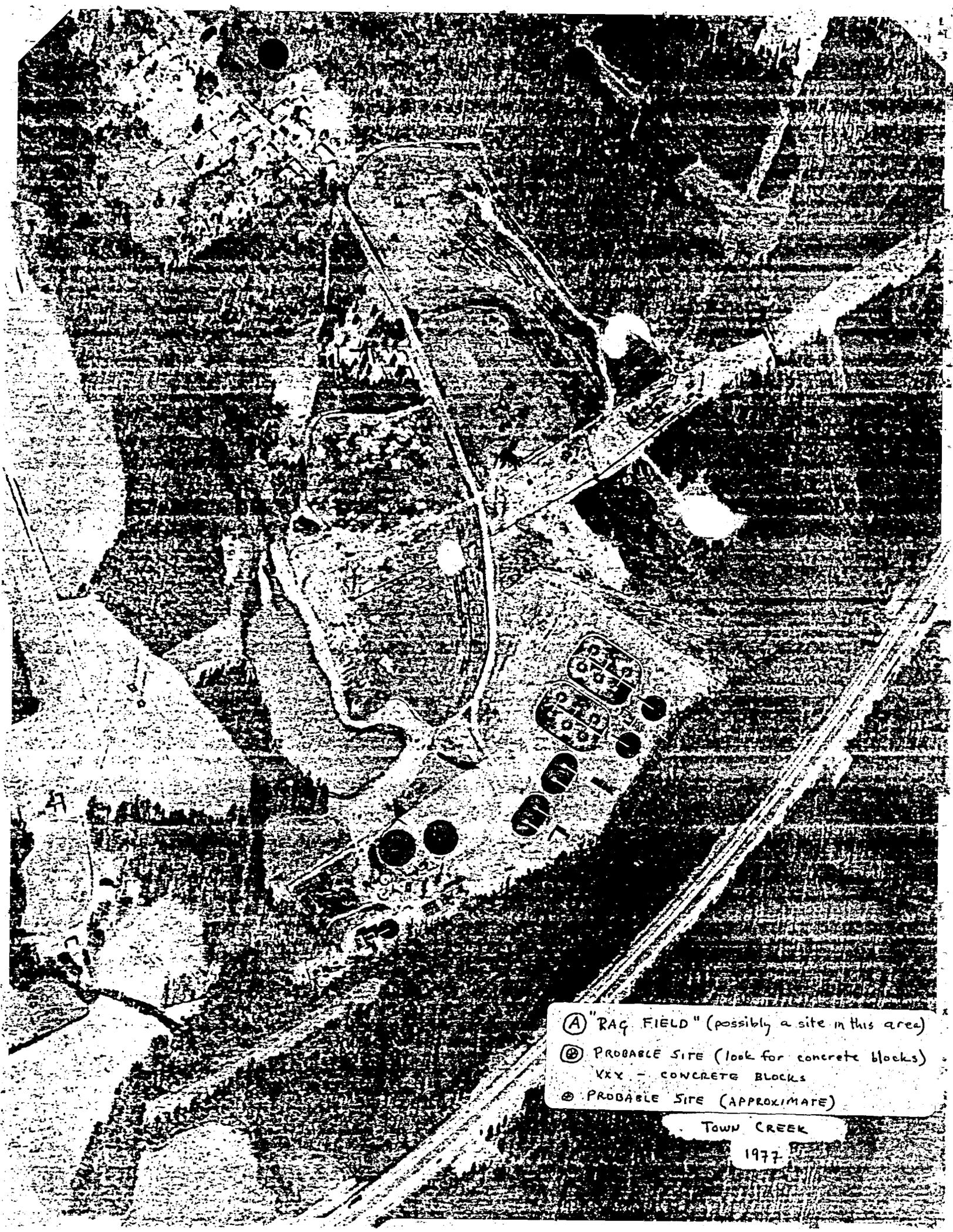


East Spencer

1 MILE RADIUS

- (A) "RAG FIELD" - there is possibly a site in this area
- (X) Probable site (look for concrete blocks) xxx - concrete blocks
- (⊕) Probable site (approximate)

TOWN CREEK REGIONAL WWTP
 HELLTOWN RD.
 SALISBURY, NC 28144
 USGS 7.5' QVAD
 SALISBURY, NC, 1962



(A) "RAG FIELD" (possibly a site in this area)

(B) PROBABLE SITE (look for concrete blocks)
VXX - CONCRETE BLOCKS

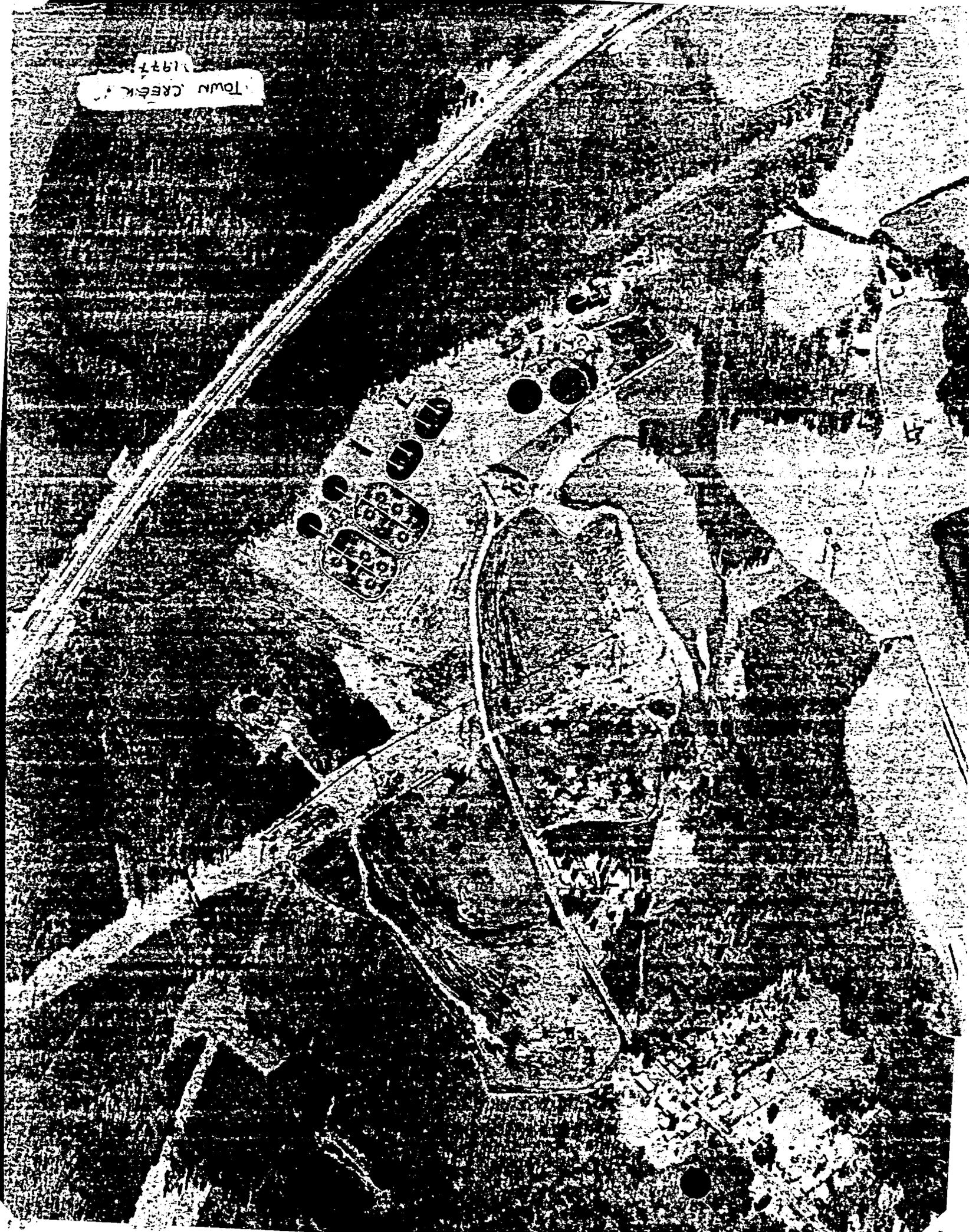
(C) PROBABLE SITE (APPROXIMATE)

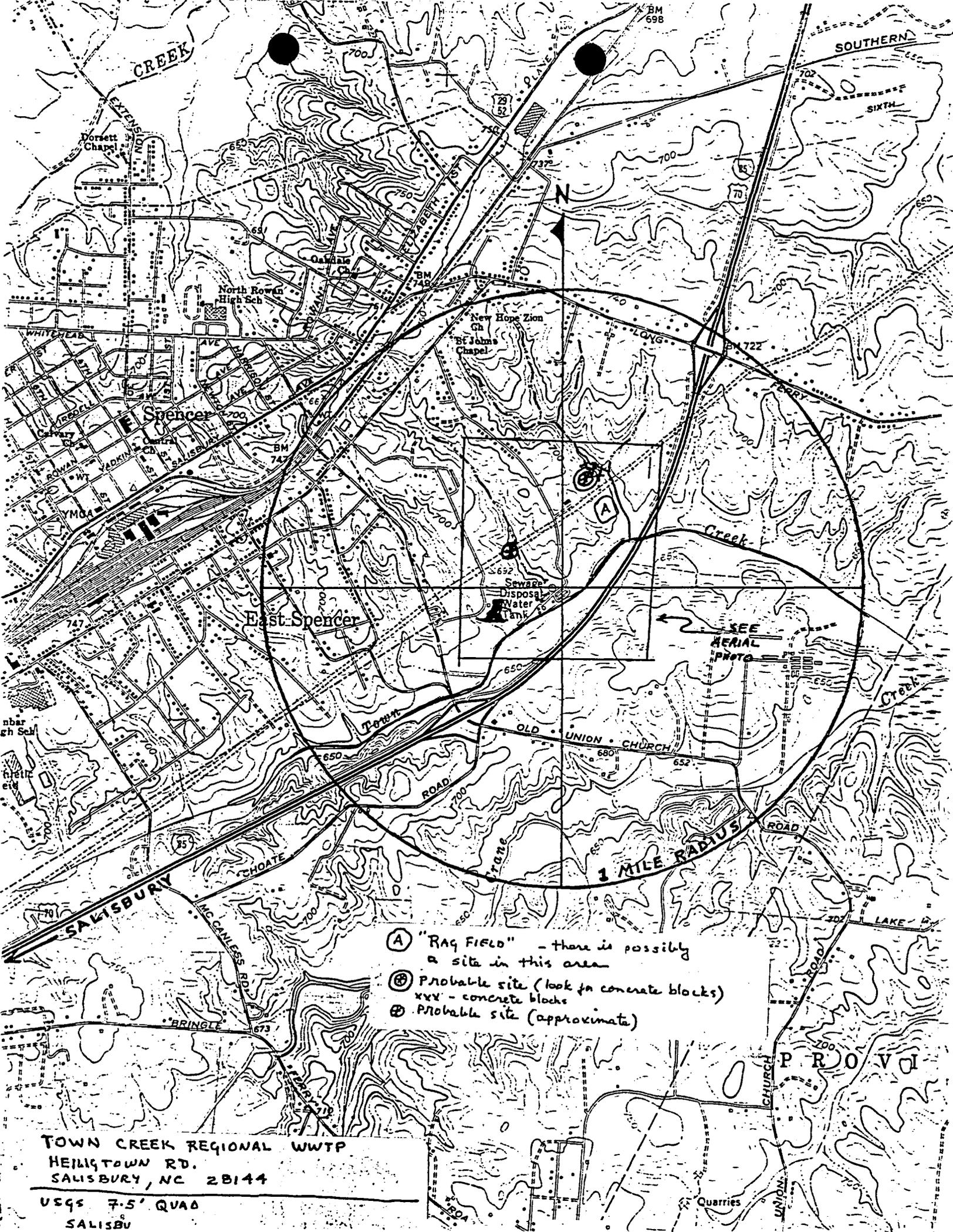
TOWN CREEK

1977

1977

TOWN CREEK





CREEK

SOUTHERN

Dorsett Chapel

North Rowan High Sch

New Hope Zion Ch
St Johns Chapel

Spencer

East Spencer

Sewage Disposal Water Tank

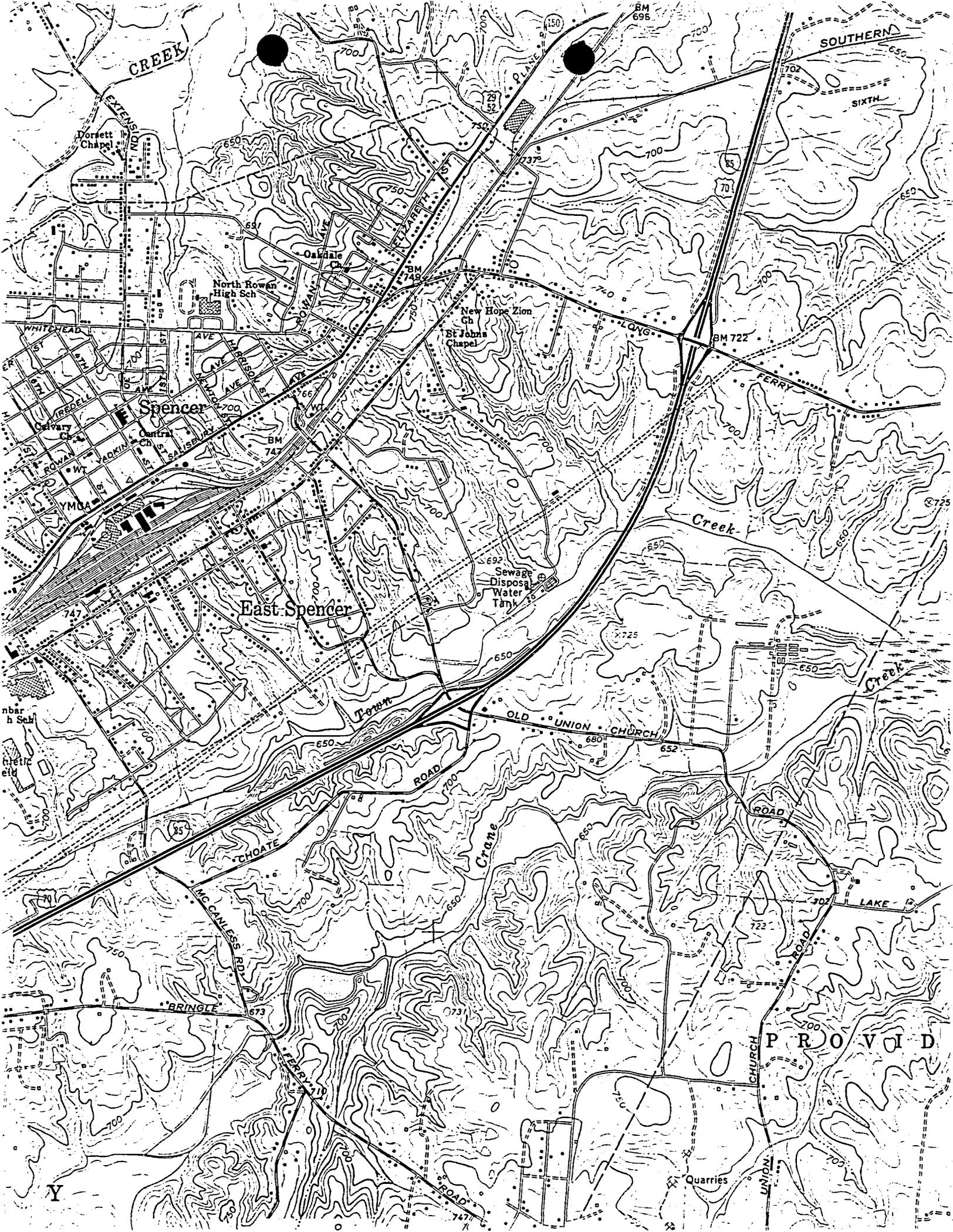
SEE AERIAL PHOTO

OLD UNION CHURCH

1 MILE RADIUS

- Ⓐ "RAG FIELD" - there is possibly a site in this area
- Ⓑ Probable site (look for concrete blocks) xxx - concrete blocks
- Ⓒ Probable site (approximate)

TOWN CREEK REGIONAL WWTP
HELIPTOWN RD.
SALISBURY, NC 28144
USGS 7.5' QUAD
SALISBU



CREEK

SOUTHERN

Dorsett Chapel

North Rowan High Sch

Oakdale Ch

New Hope Zion Ch
St John's Chapel

Spencer

East Spencer

Creek

Town

OLD UNION CHURCH

Creek

CHOATE

Crane

ROAD

LAKE

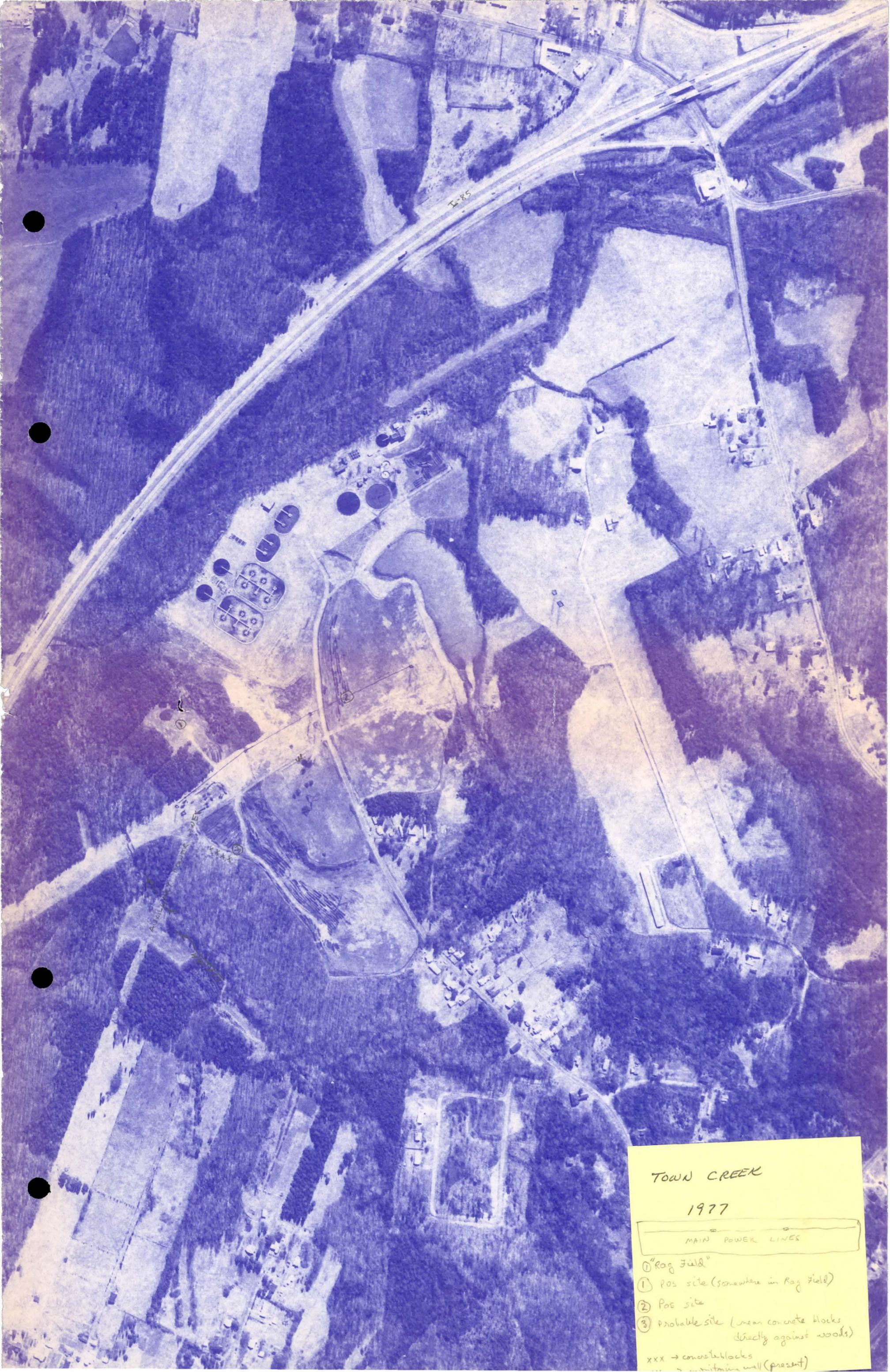
BRINGLE

MCCANNES ROAD

PROVID

Quarries

Y

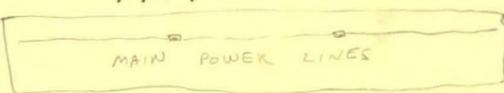


I-85

ANILIMAY CREEK UNDER
DIP

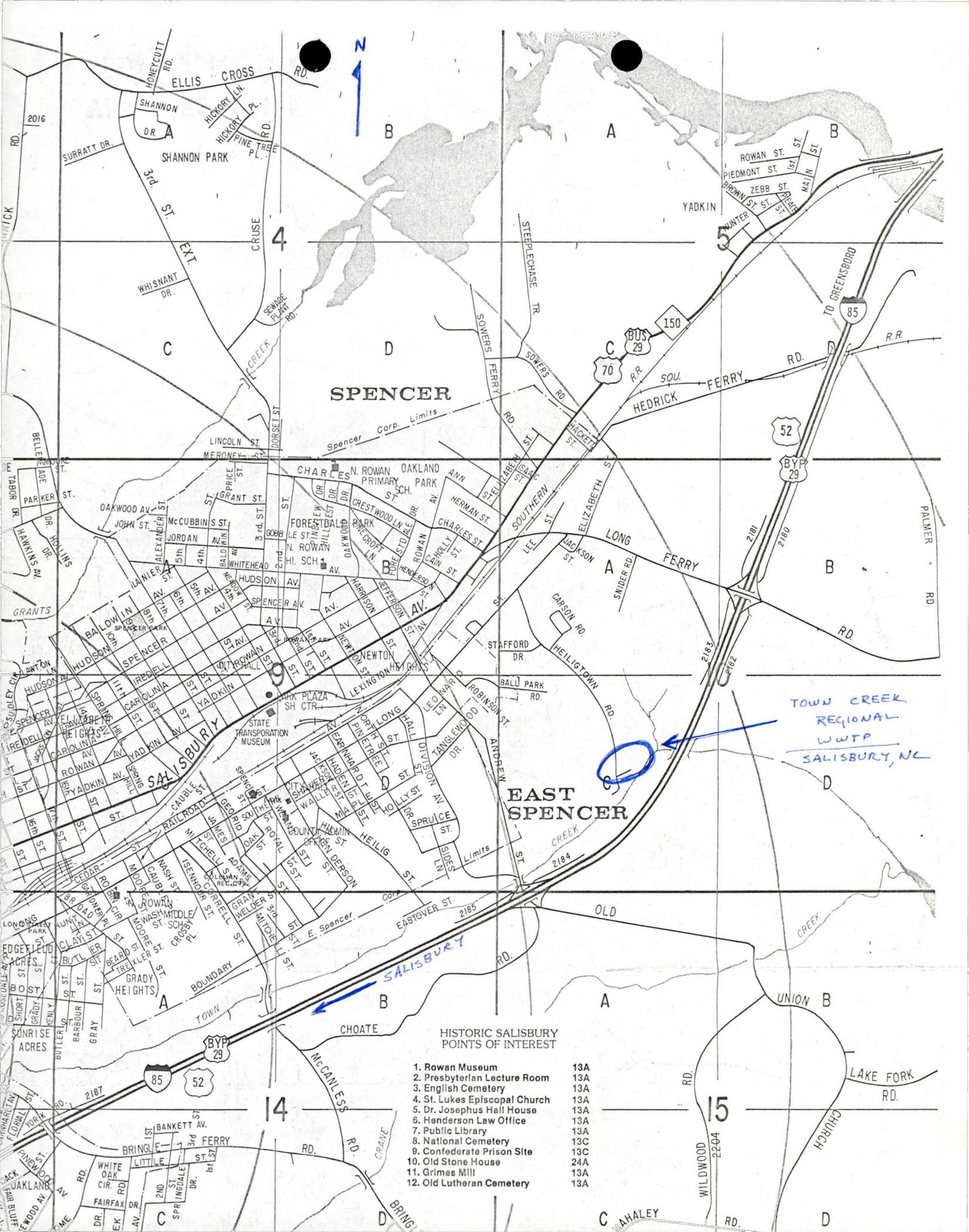
TOWN CREEK

1977



- ① "Rag Field"
- ① Pos site (somewhere in Rag field)
- ② Pos site
- ③ Probable site (near concrete blocks directly against woods)

xxx → concrete blocks
xxx → retaining wall (present)



SPENCER

EAST SPENCER

TOWN CREEK
REGIONAL
WTP
SALISBURY, NC

HISTORIC SALISBURY POINTS OF INTEREST

- | | |
|-------------------------------|-----|
| 1. Rowan Museum | 13A |
| 2. Presbyterian Lecture Room | 13A |
| 3. English Cemetery | 13A |
| 4. St. Lukes Episcopal Church | 13A |
| 5. Dr. Josephus Hall House | 13A |
| 6. Henderson Law Office | 13A |
| 7. Public Library | 13A |
| 8. National Cemetery | 13C |
| 9. Confederate Prison Site | 13C |
| 10. Old Stone House | 24A |
| 11. Grimes Mill | 13A |
| 12. Old Lutheran Cemetery | 13A |



LAW ENGINEERING TESTING COMPANY
geotechnical, environmental & construction materials consultants
501 MINUET LANE
P.O. BOX 11297 • CHARLOTTE, NORTH CAROLINA 28220
(704) 523-2022

April 27, 1984

City of Salisbury
P. O. Box 479
Salisbury, North Carolina 28144

Attention: Mr. Kelly Patton
Superintendent of Treatment Plants

Subject: Report of Water Quality Monitoring Well Installation
Town Creek Waste-Water Treatment Plant
Grant Creek Waste-Water Treatment Plant
Salisbury, North Carolina
LETCo. Job No. CH 5019

Gentlemen:

As authorized by your Purchase Order No. 22778 accepting our Proposal No. 092S4 dated April 4, 1984, Law Engineering Testing Company has completed the installation of four water quality monitoring wells at the two subject sites. This report describes the installation procedures and presents logs of the well installations.

Two monitoring wells were installed at the Town Creek Treatment Plant and two at the Grant Creek Treatment Plant. The well locations were staked in the field by others and observed by Mr. Kelly Patton of the City of Salisbury and Mr. William Babcock of Law Engineering. No site plans were furnished to us.

The monitoring wells were installed using rotary wash-drilling techniques until refusal to the drilling equipment was encountered. (Rock coring, which was not done, would be necessary to determine the nature and vertical continuity of the refusal material.) The actual construction details are shown on the attached Ground Water Monitoring Well Installation Records. The well casing and screens are 2-inch diameter Schedule 40 PVC pipe with flush-threaded fittings. The screens are 10 ft in length and have manufactured 0.010 inch slots. The annular space between the casing and the borehole wall was filled with concrete sand to a depth above the screened section. A bentonite seal was installed over the sand pack and cement grout

City of Salisbury
April 27, 1984
LETCo. Job No. CH 5019

-2-

was pumped in the remaining annular space to the surface. A vented cap was placed on the PVC casing and a lockable steel protective cover was installed over the well casing and set into the grout.

The wells were developed initially by over-pumping, and later by bailing. Surveyed locations and elevations of the wells were not available for this report. (We recommend that this information be acquired.)

Law Engineering Testing Company appreciates the opportunity to provide our professional drilling services for this project. Please contact us if we can be of further service or if you have any questions concerning the results reported herein.

Very truly yours,

LAW ENGINEERING TESTING COMPANY

William E. Babcock Jr.
William E. Babcock, Jr.
Drilling Department Manager

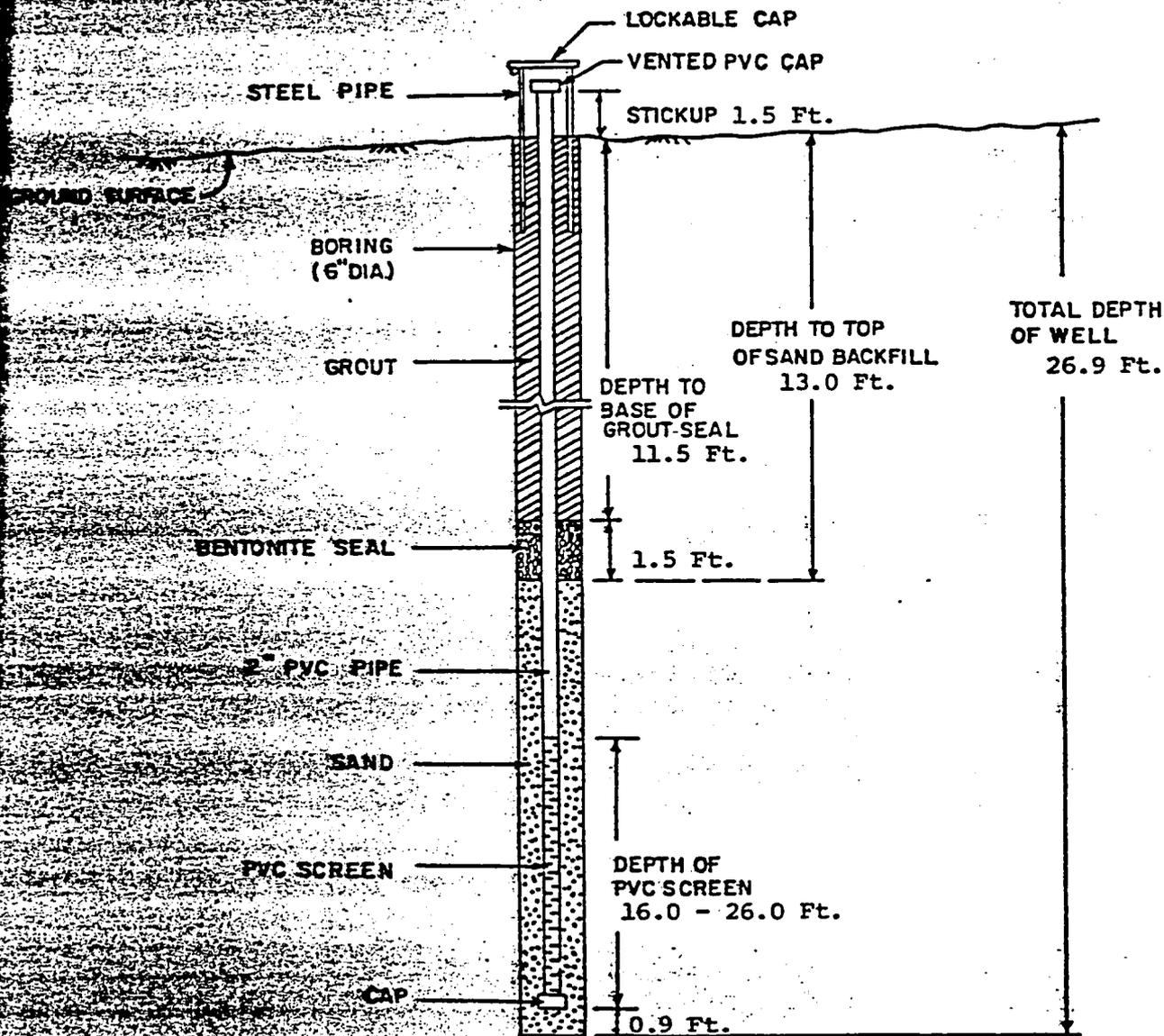
Neil J. Gilbert
Neil J. Gilbert, P. E., P. G.
Senior Engineering Geologist

Attachments

WEB/NJG:tmc

GROUND-WATER MONITORING WELL INSTALLATION RECORD

JOB NAME City of Salisbury JOB NUMBER CH 5019
 WELL NUMBER W-1 TU GROUND SURFACE ELEVATION _____
 LOCATION Town Creek Waste Water Treatment Plant (Apparent Upgradient Location)
 INSTALLATION DATE 4-12-84



Ground Water at 20.5 Ft.
Measured on 4-13-84

NOTE: ALL PVC PIPE JOINTS
HAVE SCREEN CONNECTORS

City of Salisbury
 Waste Water Treatment
 Plants
 Salisbury, North Carolina



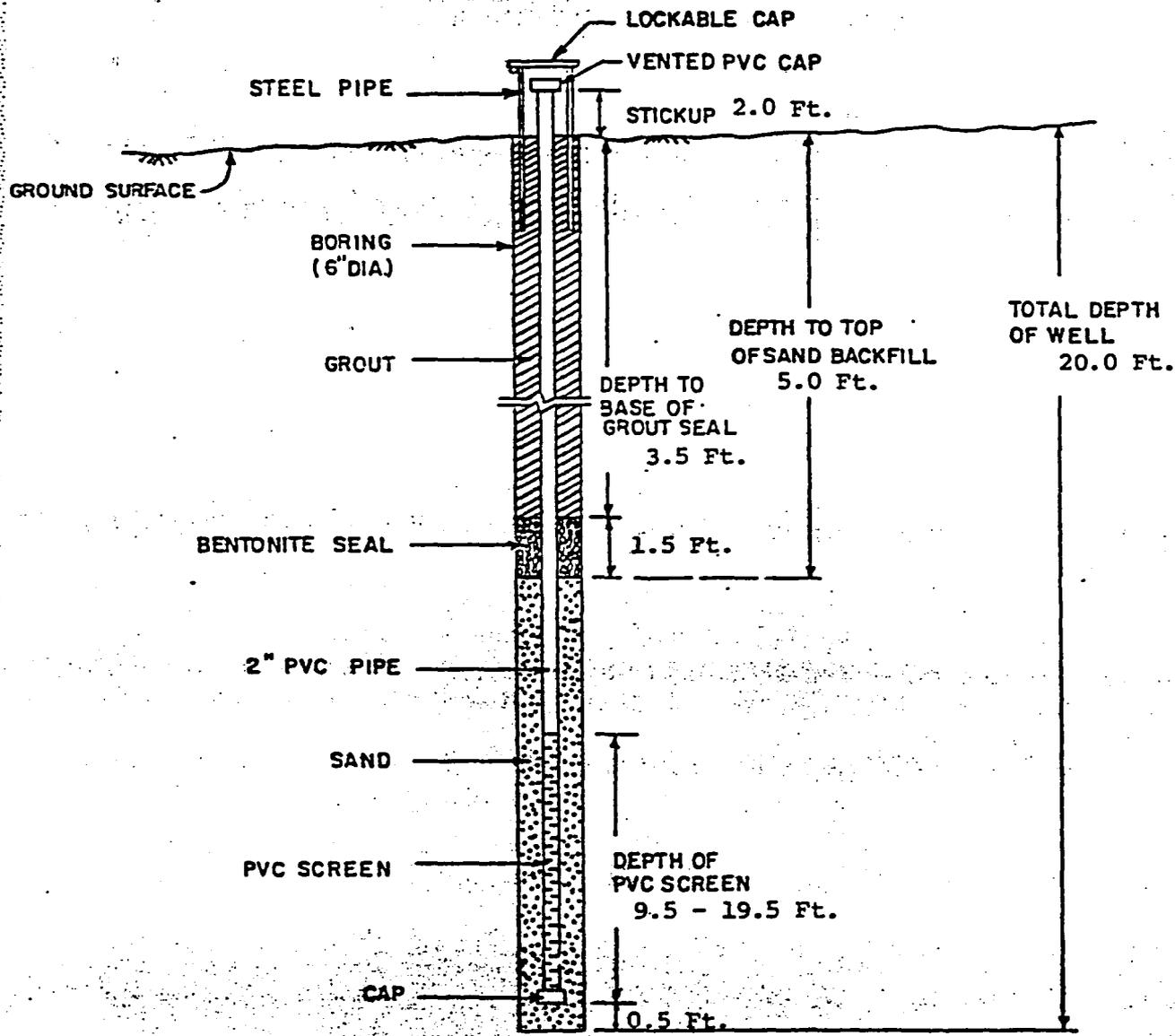
LAW ENGINEERING TESTING
COMPANY

CHARLOTTE, NORTH CAROLINA

GROUND-WATER MONITORING
WELL INSTALLATION RECORD

GROUND-WATER MONITORING WELL INSTALLATION RECORD

JOB NAME City of Salisbury JOB NUMBER CH 5019
 WELL NUMBER W-2 TD GROUND SURFACE ELEVATION _____
 LOCATION Town Creek Waste Water Treatment Plant (Apparent Downgradient Location)
 INSTALLATION DATE 4-12-84



NOTE: ALL PVC PIPE JOINTS HAVE SCREW CONNECTORS

Ground Water at 3.6 Ft.
Measured on 4-13-84

City of Salisbury
 Waste Water Treatment
 Plants
 Salisbury, North Carolina


LAW ENGINEERING TESTING COMPANY
 CHARLOTTE, NORTH CAROLINA

**GROUND-WATER MONITORING
 WELL INSTALLATION RECORD**

