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MAY 17 1995

Winston-Salem
Regional Office

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JAMES B. HUNT, JR.
GOVERNOR

DIVISION OF HIGHWAYS

R. SAMUEL HUNT III
SECRETARY

May 15, 1995

SER 349

Ms. Shuying Wang
Division of Environmental Management
585 Waughtown Street
Winston-Salem, NC 27107-2241

RE: NCDOT - Yadkinville

Dear Ms. Shuying Wang:

Enclosed is the information you requested concerning tank closure in Yadkinville. The Chain of Custody form submitted with the closure report was a copy made before the lab signed it. The lab's file copy was signed at the time they received the samples. A copy of this original form was obtained.

During tank closure, samples were obtained from the pit floor at a depth of ~~13~~ feet by backhoe. Each soil sample was placed in a sample jar by hand, packed on ice, and shipped to the lab. Disposable gloves were worn and changed between each sample. No other tools were used for sampling.

The dispensers and piping were located on top of the tanks, therefore no additional samples were collected. Samples collected were delivered to the Department of Transportation (DOT) lab for analyses. There, the samples were prepared by Method 3540 (Soxhlet extraction) and analyzed by GC. For years, the DOT had submitted lab results by this method. It was understood that Method 3540 was a substitute for both 5030 and 3550.

In July 1993, the Mooresville Division of Environmental Management (DEM) office asked us to verify the validity of Method 3540 for extracting gasoline samples. On July 16, 1993, we collected split (duplicate) samples for comparison. Two samples each were submitted to the DOT lab and Chemical and Environmental Technology (CET). Shown below are the results:



DOT
134 ppm
217 ppm

CET
149 ppm
181 ppm

Based on these results, Method 3540 should be accepted as an extraction method for gasoline samples. A year later, July 1994, Groundwater Section issued a memo to the regional offices saying 3540 is not accepted. Once we received this memo, we stopped using 3540 for gasoline samples. It is also noted that this method detected gasoline at two thirds of our sites which is twice as high as the number the Environmental Protection Agency (EPA) estimates for sites with leaking tanks.

Six other tanks were removed nearby in December 1990. As a result of contamination found during their removal, we had a contractor perform a Comprehensive Site Assessment (CSA). One of the wells installed is located directly down-gradient of the tanks removed in June 1992. This well is clean. No significant contamination was found at the site.

Please accept this information in order to complete the tank closure. If you have questions, please call Eric Motzno at (919) 733-2220.

Sincerely,



John M. Burns, Jr., Director
Equipment and Inventory Control

EM/ss
Enclosures

cc: W. E. Hoke, P.E.
Division Engineer, Division Eleven

E\YADKINV L



STRUCTURE SCHEDULE

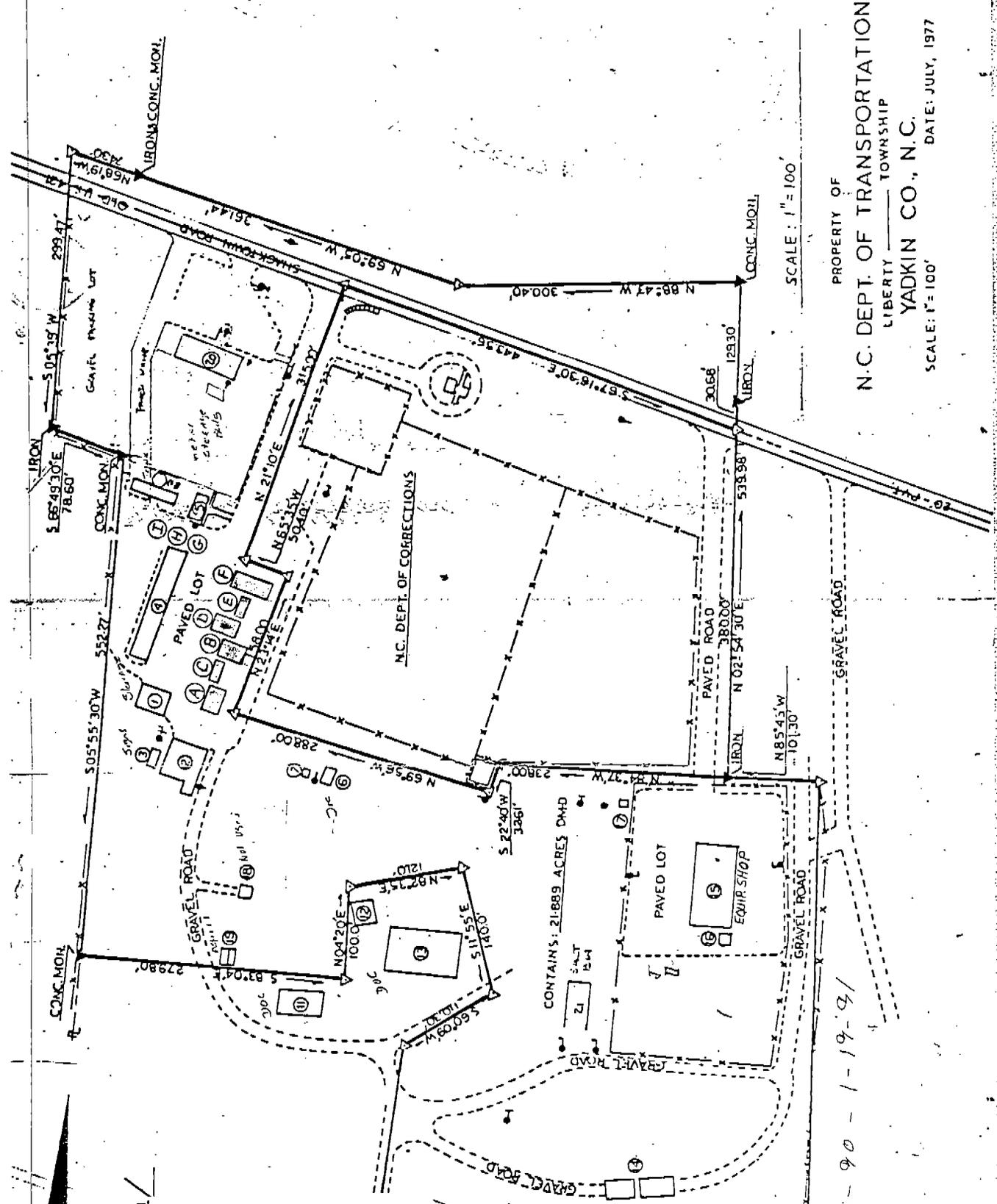
MARK	TYPE	DESCRIPTION	CONDITION
1-1	1-SF	WORK SHOP	FAIR
1-2	1-SF	WASH-GREASE PIT	FAIR
1-3	1-SF	STORAGE	FAIR
1-4	1-SF	STORAGE	FAIR
1-5	1-S BK.	MAINT. OFFICE	FAIR
1-6	1-SF	STORAGE	FAIR
1-7	1-S BRK.	PUMP HOUSE	POOR
1-8	1-SF	PUMP HOUSE	POOR
1-9	1-S BRK.	PUMP HOUSE	POOR
1-10	1-SF	BARN (DOG)	FAIR
1-11	1-SF	CONCRETE SEPTIC TANK	FAIR
1-12	1-SF	SEWAGE FIELD	FAIR
1-13	1-SF	SEWAGE FIELD	FAIR
1-14	1-SF	TREATED WOOD SALT BIN	GOOD
1-15	1-S BK.	MAINT. GARAGE	GOOD
1-16	1-SF	STORAGE	GOOD
1-17	1-S BK.	PUMP HOUSE	GOOD
1-18	1-S BK.	14,688 GAL. ASPHALT STD. TANK	GOOD
1-19	1-S BK.	SALT BED STD.	GOOD

- A- UNDERGROUND TANKS
 - B- 6809 GAL. GASOLINE TANK
 - C- 6821 GAL. GASOLINE TANK
 - D- 550 GAL. KEROSENE TANK
 - E- 4,000 GAL. DIESEL TANK
 - F- 550 GAL. NL GAS TANKS
 - G- 2,000 GAL. GASOLINE TANK
 - H- 10,000 GAL. DIESEL TANK
 - I- 10,000 GAL. GASOLINE TANK
 - J- 10,000 GAL. GASOLINE TANK
- removed 12-19-90*
- removed 6-9-92*

LEGEND

- PROPERTY LINE
- EXISTING CORNERS
- CORNER SET
- POWER POLE
- POWER POLE LIGHT
- POWER POLE TRANSFORMER
- POWER POLE METER BOX
- TELEPHONE POLE
- GUY POLE
- RIGHT OF WAY LINE
- UNDERGROUND TANK
- FENCE

SCALE: 1" = 100'



SCALE: 1" = 100'

PROPERTY OF
 N.C. DEPT. OF TRANSPORTATION
 LIBERTY TOWNSHIP
 YADKIN CO., N.C.
 DATE: JULY, 1977
 SCALE: 1" = 100'

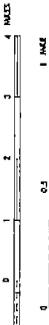
Remove 12-10-90 - 1-19-91

SCALE: 1" = 100'

YADKIN COUNTY NORTH CAROLINA

PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS - GIS BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

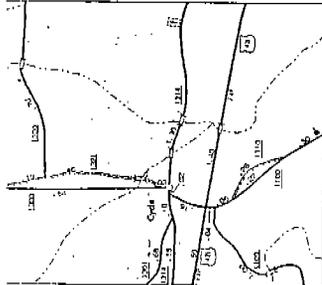
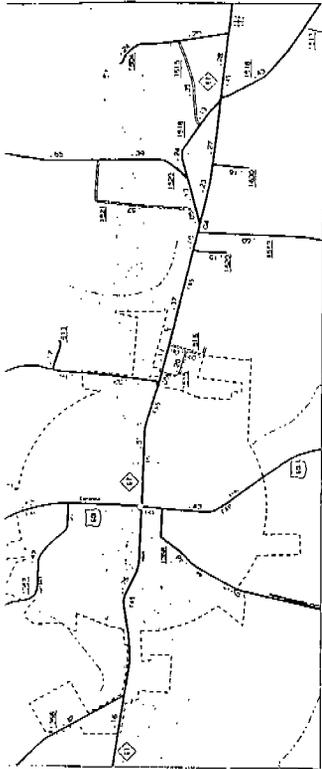
SCALE 1" = 4 MILES



SCALE FOR ENLARGEMENTS

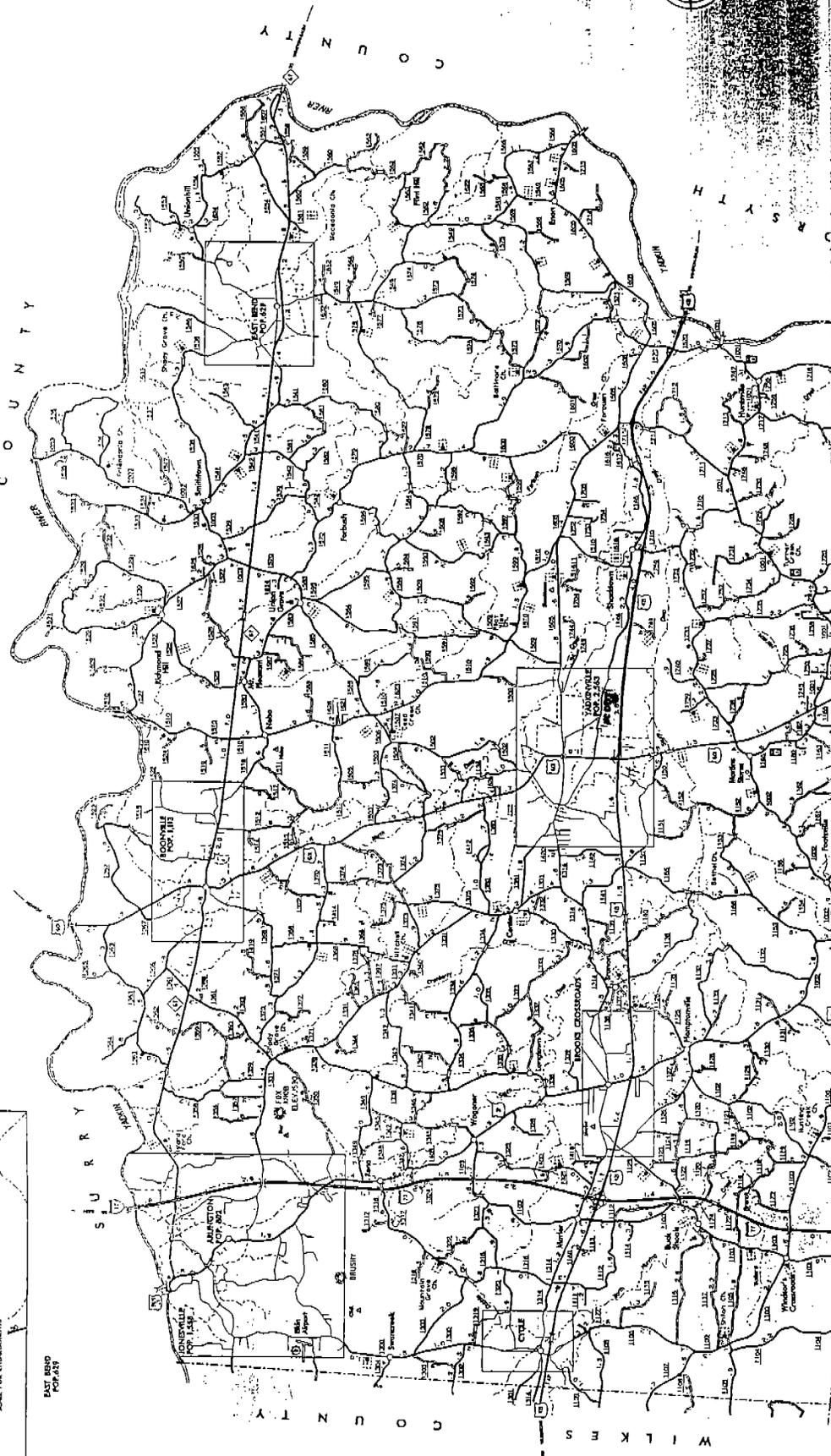


EAST 1850
POP 287



C O U N T Y
P O P U L A T I O N
P O R T I O N

C Y C L E



Spreader Shed

(4)

Diesel 457-531

Gasoline 457-530

Gasoline 457-300

Sample Locations

Depth 15'

MW-1

GW FLOW

Gen. House

Scale

1" = 25'

Yadkinville DOT

