STATE OF TENNESSEE
DEPARTMENT OF HEALTH AND ENVIRONMENT
SOUTHEAST REGIONAL OFFICE
2501 MILNE STREET
CHATTANOOGA, TENNESSEE 37406-3399

February 4, 1992

Mr. Chip Love
Dynamac Corp.
Suite 500
230 Peachtree Street, NW
Atlanta, Georgia 30303

Re: Request for files data on Hooker Road
Bridge Site number 33590
Tennessee ID

Dear Mr. Love:

As per your telephone request February 3, 1992, enclosed please find a duplication of Appendix D and E from the Hooker Road Bridge Chattanooga Creek site's site investigation completed in 1988 by Chattanooga Superfund Field Office.

Mr. Ferman Miller duplicated the requested Appendix along with references 4, 5, 6, 7, 13 and 14.

Should this office be of additional service, please let us know.

Sincerely,

Wayne S. Everett

Wayne S. Everett
Chattanooga Superfund
Field Office Manager

WSE/ph

Enclosure

cc: David Randolph, Nashville Superfund Office

10511615

HOOKER ROAD BRIDGE DUMP #33590

Site No. TND980844229

Appendix D

Analytical Results

Chattanooga, TN

FED~~STATE~~ SUPERFUND
343.38-11

MAR 16 1988

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control — Tennessee Department of Public Health

LEGAL

SOURCE: Hooker Rd Bridge Dump Mile

IDENTIFICATION: #33590 Field #1 Bkgrnd - Composite Soil
Hamilton County

Field Number 1 Collected By MPD Primary Station Number Date Collected 2-25-88

Time Collected 12:15 Sample Depth (ft.) Laboratory Number SWM 1206

All Results Reported on Dry Weight Basis

	Conc.	STORET No.	
Aluminum as Al Mg/Kg		01108	
Arsenic as As Mg/Kg		01003	
X Barium as Ba Mg/Kg	96.2	01008	
Boron as B Mg/Kg		01023	
X Cadmium as Cd Mg/Kg	1.4	01028	
X Chromium-total as Cr Mg/Kg	65	01029	
Cobalt as Co Mg/Kg		01038	
X Copper as Cu Mg/Kg	46	01043	
Iron as Fe Mg/Kg		01170	
X Lead as Pb Mg/Kg	163	01052	
Manganese as Mn Mg/Kg		01053	
X Mercury-total as Hg Mg/Kg	0.198	71921	
X Nickel as Ni Mg/Kg	25	01068	
X Selenium as Se Mg/Kg	1.0	01148	
X Silver as Ag Mg/Kg	0.9	01078	
X Zinc as Zn Mg/Kg	215	01093	
5-day B.O.D. 20° C Mg/Kg			
C.O.D. Mg/Kg			
Oxygen uptake Mg/Kg			
Chlorine Demand, 30 min. Mg/Kg			
Cyanide as CN Mg/Kg			
Nitrates as N Mg/Kg			
Ammonia as N Mg/Kg			
Kjeldahl Nitrogen as N Mg/Kg			
Phosphate as P Mg/Kg			
Phenols Mg/Kg			
Oil and Grease Mg/Kg			
Sulfide as S Mg/Kg			
Solids, per cent			
Volatile Solids, per cent			
Silica as SiO_2 Mg/Kg			

REMARKS Metals (total)

Craig Edwards 3/16

PH-0548
WQC 12/79

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 2 Sampling Agency SWM/FSF

Laboratory Sample No. Ø 1267 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-7-88

Sample Source & Identification: Hooker Rd. Bridge Dump Site # 33590

Analyzed 3-3-88 Sediment

HALOGENATED VOLATILE ORGANIC ANALYSIS

A 10.5133gr ~~ML~~. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 or 570 G.C. AND ANALYZED USING A HALL 700A ELECTROCONDUCTIVITY DETECTOR IN THE CHLORINE MODE.

COLUMN:	1% SP-1000/CARBOPACK B
STARTING TEMP:	45°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	8° PER MIN.
FINAL TEMP:	200°C
FINAL HOLD:	18 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Chloromethane	ND	Cis-1,3-Dichloropropene	ND
Bromomethane		Trichloroethylene	
Dichlorodifluoromethane		Dibromochloromethane	
Vinyl Chloride		1,1,2-Trichloroethane	
Chloroethane		Trans-1,3-Dichloropropene	
Methylene Chloride		2-Chloroethylvinyl ether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethylene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethylene	
Trans-1,2-Dichloroethylene		Chlorobenzene	
Chloroform		1,3-Dichlorobenzene	
1,2-Dichloroethane		1,2-Dichlorobenzene	
1,1,1-Trichloroethane		1,4-Dichlorobenzene	
Carbon Tetrachloride		Acetone	
Bromodichloromethane		Methyl Ethyl Ketone	
1,2-Dichloropropane			

Remarks: ND - None detected

WAT PH-0547
Form 2

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 2 Sampling Agency SWM/FSF

Laboratory Sample No. Ø 1267 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-8-88

Sample Source & Identification: Hooker Rd bridge dump
Site # 33590

analyzed 3-1-88 Sediment

AROMATIC VOLATILE ORGANIC ANALYSIS

10.3087g

A ~~5~~ ML. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR.

COLUMN:	5% SP-1200/0.75% Bentone
STARTING TEMP:	50°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	6° PER MIN.
FINAL TEMP:	110°C
FINAL HOLD:	20 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Benzene	ND	1,4-Dichlorobenzene	ND
Toluene	↓	1,3-Dichlorobenzene	↓
Chlorobenzene	↓	1,2-Dichlorobenzene	↓
Ethyl Benzene	↓		
p-Xylene	↓		
m-Xylene	↓		
o-Xylene	↓		
Styrene	↓		

Remarks: ND - None Detected

PH-2398
LAB 9/86
Form 2

SWM

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 2

Laboratory Sample No. Ø 1267MS Date Received: 2-29-88 Date Completed: 3-7-88

Sample Collected By: APD Date Collected: 2-25-88

Sample Source & Identification: Hooker Rd. Bridge Dump Site # 33590

FSF

Analytical Procedures and Treatment of Sample:

The sediment and 20mls VOA-pure H_2O were added to a 60ml vial, shaken well and then purged on a Tekmar Liquid Sample Concentrator with He ↑ @ 40ml/min for 15min. The Tenax trap was desorbed @ 190°C by in-jection onto a 1% SP-1000/CP-8 column of a Finnigan 3200 F GC-MS. The oven temperature was then programmed from 30° - 220°C @ 10° per minute.

Compound Requested

Compound	Compound	Compound
1. *	8.	15.
2.	9.	16.
3.	10.	17.
4.	11.	18.
5.	12.	19.
6.	13.	20.
7.	14.	21.

Remarks: *- No acetone or methyl ethyl Ketone detected in this sample.

TDPH-WC
B-288
Rev. 4/

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS
Base/Neutral Extractables

Laboratory Number 1206
Received: Date 02-29-88 Time By
Sampling Agency: ☐APC; ☐SWM; ☐WM; ☐Other
If SWM: ☐SW; ☐SS; ☐3012; ☐Other
If WM: ☐GW; ☐WP; ☐WS; ☐Other
Send Report to

Sample Source Hooker Rd Bridge Dump
Stream Mile Depth County
Topo Map No. Quadrant
Collected: Date 02-25-88 Time By
Field No. 3 Potential Hazard

Sample Type
☐ Emergency; ☐ Legal; ☐ Routine; ☐ Ambient
☐ Air; ☐ Sediment; ☐ Tissue; ☐ Water

Code	Method 605	Value*
39120	benzidine	NA
34631	3,3'-dichlorobenzidine	NA

	Method 606	
34292	butylbenzylphthalate	ND
39100	bis(2-ethylhexyl)phthalate	↓
39110	di-n-butylphthalate	↓
34596	di-n-octylphthalate	↓
34336	diethylphthalate	↓
34341	dimethylphthalate	↓

	Method 607	
34438	n-nitrosodimethylamine	ND
34433	n-nitrosodiphenylamine	↓
34428	n-nitroso di-n-propylamine	↓

	Method 608	
39330	aldrin	PI
39337	a-BHC	ND
39338	b-BHC	↓
34259	d-BHC	↓
39340	g-BHC	↓
39350	chlordane	ND
38310	4,4'-DDD	ND
39320	4,4'-DDE	8.44
39300	4,4'-DDT	ND
39380	dieldrin	424
34361	endosulfan I	ND
34242	endosulfan II	↓
34351	endosulfan sulfate	↓
39390	endrin	↓

Code	Method 608, cont.	Value
34366	endrin aldehyde	ND
39410	heptachlor	↓
39420	heptachlor epoxide	PI
39400	toxaphene	ND
	PCB-1016 /1242	↓
39488	PCB-1221	↓
39492	PCB-1232	↓
39500	PCB-1248	↓
39504	PCB-1254	↓
39508	PCB-1260	↓
81649	PCB-1262	↓
39480	methyoxychlor	↓

	Method 609	
34408	isophorone	ND
34447	nitrobenzene	↓
34611	2,4-dinitrotoluene	ND
34626	2,6-dinitrotoluene	ND

	Method 610	
34205	acenaphthene	ND
34200	acenanaphthylene	↓
34220	anthracene	↓
34526	benzo(a)anthracene	379
34247	benzo(a)pyrene	384
34230	benzo(b)fluoranthene	NA*
34521	benzo(ghi)perylene	851
34242	benzo(k)fluoranthene	ND
34556	dibenzo(a,h)anthracene	ND
34376	fluoranthene	1100
34381	fluorene	ND

Code	Method 610, cont.	Value
34403	indeno(1,2,3-cd)pyrene	ND
34696	naphthalene	ND
34461	phenanthrene	376
34469	pyrene	ND

	Method 611	
34273	bis(2-chloroethyl) ether	ND
34278	bis(2-chloroethoxy)methane	↓
34283	bis(2-chloroisopropyl)ether	↓
34636	4-bromophenylphenyl ether	↓
34641	4-chlorophenylphenyl ether	↓

	Method 612	
34386	hexachlorocyclopentadiene	ND
34391	hexachlorobutadiene	↓
39700	hexachlorobenzene	↓
34581	2-chloronaphthalene	ND
34536	1,2-dichlorobenzene	ND
34566	1,3-dichlorobenzene	↓
34571	1,4-dichlorobenzene	↓
34396	hexachloroethane	↓
34551	1,2,4-trichlorobenzene	↓

	Other	
	Chrysene	430

*: Reporting units, unless otherwise noted--water, µg/L; sediment, µg/Kg; tissue, mg/kg; air, µg

Unit Supervisor: Robin L. Jeruzes Date: 3-30-88

Signature of supervisor indicates that the work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:

Comments: PI - Presence indicated below to quantitate

PH-3016

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS,
Purgeables and Acid Extractables

Laboratory Number [illegible]
Received: Date [illegible] Time [illegible] By [illegible]

Sample Source Hooker Rd Bridge, Trunk Site # 33540
Stream Mile ____ Depth ____ County Hamilton
Topo Map No. ____ Quadrant ____
Collected: Date 03-25-88 Time 1515 By [illegible]
Field No. 3 Potential Hazard ____

Sample Priority
☐ Emergency; ☐ Legal; ☐ Routine; ☐ Ambient
☐ Air ☐ Sediment; ☐ Tissue; ☐ Water

Sampling Agency: ☐APC; ☐SWM; ☐WM; ☐Other ____
If SWM: ☐SW; ☐SS; ☐3012; ☐Other ____
If WM: ☐GW; ☐WP; ☐WS; ☐Other ____
Send Report to ____

Code	Halogenated Purgeables	Value*
32104	bromoform	
32101	bromodichloromethane	
34413	bromomethane	
32102	carbon tetrachloride	
34301	chlorobenzene	
34311	chloroethane	
34576	2-chloroethylvinyl ether	
32106	chloroform	
34418	chloromethane	
32105	dibromochloromethane	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34668	dichlorodifluoromethane	
34496	1,1-dichloroethane	
34531	1,2-dichloroethane	
34501	1,1-dichloroethene	
34546	trans-1,2-dichloroethene	
34541	1,2-dichloropropane	
34045	cis-1,3-dichloropropene	
34699	trans-1,3-dichloropropene	
34423	methylene chloride	
34516	1,1,2,2-tetrachloroethane	

Code		Value
34475	tetrachloroethene	
34506	1,1,1-trichloroethane	
34511	1,1,2-trichloroethane	
39180	trichloroethene	
39488	trichlorofluoromethane	
39715	vinyl chloride	
	Aromatic Purgeables	
34030	benzene	
34301	chlorobenzene	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34371	ethylbenzene	
34010	toluene	
	m-xylene	
	o-xylene	
	p-xylene	
	Other Purgeables	
34210	acrolein	
34215	acrylonitrile	

	Acid Extractables	Value
34552	4-chloro-3-methyl phenol	
34586	2-chlorophenol	
34601	2,4-dichlorophenol	
34606	2,4-dimethylphenol	
24616	2,4-dinitrophenol	
34657	2-methyl-4,6-dinitrophenol	
34591	2-nitrophenol	
34646	4-nitrophenol	
39032	pentachlorophenol	
34694	phenol	
34681	2,4,6-trichlorophenol	✓
	Other	

*: Unless otherwise indicated, reporting units are:
air = total µg
soil = µg/Kg
tissue = mg/Kg
water = µg/l

Unit Supervisor: Robin L. Hedges Date: 3-30-88
Signature of supervisor indicates that work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:
Comments: ____

PH-3015 LAB 1/88

FED 343.38-[redacted]

REPORT OF SEDIMENT ANALYSES

Division of Water Quality Control — Tennessee Department of Public Health

SOURCE: Hooker Rd. Bridge Dump Mile LEGAL

IDENTIFICATION: # 33590, Hamiton County

Field Number 4 Collected By APD Primary Station Number _____ Date Collected 2/25/88

Time Collected 11:45 Sample Depth (ft.) 0-5 inches Laboratory Number SWM1207

All Results Reported on Dry Weight Basis

		Conc.	STORET No.	
	Aluminum as Al Mg/Kg		01108	
	Arsenic as As Mg/Kg		01003	
X	Barium as Ba Mg/Kg	107	01008	
	Boron as B Mg/Kg		01023	
X	Cadmium as Cd Mg/Kg	1.5	01028	
X	Chromium-total as Cr Mg/Kg	80	01029	
	Cobalt as Co Mg/Kg		01038	
X	Copper as Cu Mg/Kg	78	01043	
	Iron as Fe Mg/Kg		01170	
X	Lead as Pb Mg/Kg	101	01052	
	Manganese as Mn Mg/Kg		01053	
X	Mercury-total as Hg Mg/Kg	0.104	71921	
X	Nickel as Ni Mg/Kg	1167	01068	
X	Selenium as Se Mg/Kg	<0.1	01148	
X	Silver as Ag Mg/Kg	0.7	01078	
X	Zinc as Zn Mg/Kg	177	01093	
	5-day B.O.D. 20° C Mg/Kg			
	C.O.D. Mg/Kg			
	Oxygen uptake Mg/Kg			
	Chlorine Demand, 30 min. Mg/Kg			
	Cyanide as CN Mg/Kg			
	Nitrates as N Mg/Kg			
	Ammonia as N Mg/Kg			
	Kjeldahl Nitrogen as N Mg/Kg			
	Phosphate as P Mg/Kg			
	Phenols Mg/Kg			
	Oil and Grease Mg/Kg			
	Sulfide as S Mg/Kg			
	Solids, per cent			
	Volatile Solids, per cent			
	Silica as SiO_2 Mg/Kg			

REMARKS _____

Craig Edwards 3/16

PH-0548
WQC 12/79

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 5 Sampling Agency SWM/FSE

Laboratory Sample No. Ø 1270 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-21-88

Sample Source & Identification: Hooker Rd. bridge dump Site # 33590

analyzed 3-3-88 Sediment

HALOGENATED VOLATILE ORGANIC ANALYSIS

A 10.5521g ~~ML~~. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 or 570 G.C. AND ANALYZED USING A HALL 700A ELECTROCONDUCTIVITY DETECTOR IN THE CHLORINE MODE.

COLUMN:	1% SP-1000/CARBOPACK B
STARTING TEMP:	45°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	8° PER MIN.
FINAL TEMP:	200°C
FINAL HOLD:	18 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Chloromethane	ND	Cis-1,3-Dichloropropene	ND
Bromomethane		Trichloroethylene	0.0699
Dichlorodifluoromethane		Dibromochloromethane	ND
Vinyl Chloride		1,1,2-Trichloroethane	
Chloroethane		Trans-1,3-Dichloropropene	
Methylene Chloride		2-Chloroethylvinyl ether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethylene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethylene	
Trans-1,2-Dichloroethylene		Chlorobenzene	
Chloroform		1,3-Dichlorobenzene	
1,2-Dichloroethane		1,2-Dichlorobenzene	
1,1,1-Trichloroethane		1,4-Dichlorobenzene	
Carbon Tetrachloride		Cis-1,2-Dichloroethylene	
Bromodichloromethane			
1,2-Dichloropropane			

Remarks: N.D. - None Detected

WAT PH-0547
Form 2

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 5 Sampling Agency SWM/FSF

Laboratory Sample No. Ø 1270 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-21-88

Sample Source & Identification: Hooker Rd bridge dump
Site # 33590

analyzed 3-1-88 Sediment

AROMATIC VOLATILE ORGANIC ANALYSIS

A 10.5543g ~~ML~~. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR.

COLUMN:	5% SP-1200/0.75% Bentone
STARTING TEMP:	50°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	6° PER MIN.
FINAL TEMP:	110°C
FINAL HOLD:	20 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Benzene	ND	1,4-Dichlorobenzene	ND
Toluene	↓	1,3-Dichlorobenzene	↓
Chlorobenzene	↓	1,2-Dichlorobenzene	↓
Ethyl Benzene	↓	Acetone	ND
p-Xylene	↓	MIBK	↓
m-Xylene	↓	MEK	↓
o-Xylene	↓	MTK	↓
Styrene	↓		

Remarks: ND - None Detected

PH-2398
LAB 9/86
Form 2

SWM

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 5

Laboratory Sample No. 1270MS Date Received: 2-29-88 Date Completed: 3-21-88

Sample Collected By: APD Date Collected: 2-25-88

Sample Source & Identification: Hooker Rd. Bridge Dump Site

Site # 33590

FSF

Analytical Procedures and Treatment of Sample:

The sediment and 20mls VOA-pure H_2O were added to a 60 ml vial, shaken well and then purged on a Tekmar Liquid Sample Concentrator with He ↑ @ 40ml/min for 15min. The Tenax trap was desorbed @ 190°C by injection onto a 1% SP-1000/CP-8 column of a Finnigan 3200 F GC-MS. The oven temperature was then programmed from 30° - 220°C @ 10° per minute.

Compound Requested

Compound	Compound	Compound
1. Trichloroethylene - C	8.	15.
2.	9.	16.
3.	10.	17.
4.	11.	18.
5.	12.	19.
6.	13.	20.
7.	14.	21.

Remarks: C - confirmed

TDPH-WQ
B-288
Rev. 4/

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS
Base/Neutral Extractables

Laboratory Number SWM 1207 01

Received: Date 2-29-88 Time 0730 By CLR

Sample Source Hooker Rd Bridge Dump Site # 335 YD

Stream Mile ____ Depth ____ County Hamilton

Topo Map No. ____ Quadrant ____

Collected: Date 2-25-88 Time 1145 By MPD

Field No. 6 Potential Hazard ____

Sampling Agency: ☐APC; ☒SWM; ☐WM; ☐Other ____

If SWM: ☐SW; ☐SS; ☒3012; ☐Other ____

If WM: ☐GW; ☐WP; ☐WS; ☐Other ____

Send Report to ____

SampleType: ☐ Emergency; ☒ Legal; ☐ Routine; ☐ Ambient; ☐ Air; ☒ Sediment; ☐ Tissue; ☐ Water

Code	Method 605	Value*
39120	benzidine	NA
34631	3,3'-dichlorobenzidine	NA

	Method 606	
34292	butylbenzylphthalate	ND
39100	bis(2-ethylhexyl)phthalate	↓
39110	di-n-butylphthalate	↓
34596	di-n-octylphthalate	↓
34336	diethylphthalate	↓
34341	dimethylphthalate	↓

	Method 607	
34438	n-nitrosodimethylamine	ND
34433	n-nitrosodiphenylamine	↓
34428	n-nitroso di-n-propylamine	↓

	Method 608	
39330	aldrin	ND
39337	a-BHC	↓
39338	b-BHC	↓
34259	d-BHC	↓
39340	g-BHC	↓
39350	chlordane	↓
38310	4,4'-DDD	↓
39320	4,4'-DDE	3.6
39300	4,4'-DDT	PI
39380	dieldrin	32.4
34361	endosulfan I	ND
34242	endosulfan II	↓
34351	endosulfan sulfate	↓
39390	endrin	PI

Code	Method 608, cont.	Value
34366	endrin aldehyde	PI
39410	heptachlor	ND
39420	heptachlor epoxide	↓
39400	toxaphene	↓
	PCB-1016 / 1242	↓
39488	PCB-1221	↓
39492	PCB-1232	↓
39500	PCB-1248	↓
39504	PCB-1254	↓
39508	PCB-1260	↓
81649	PCB-1262	↓
39480	methoxychlor	↓

	Method 609	
34408	isophorone	ND
34447	nitrobenzene	↓
34611	2,4-dinitrotoluene	↓
34626	2,6-dinitrotoluene	↓

	Method 610	
34205	acenaphthene	ND
34200	acenaphthylene	↓
34220	anthracene	↓
34526	benzo(a)anthracene	PI <330
34247	benzo(a)pyrene	PI <330
34230	benzo(b)fluoranthene	ND
34521	benzo(ghi)perylene	↓
34242	benzo(k)fluoranthene	↓
34556	dibenzo(a,h)anthracene	↓
34376	fluoranthene	ND
34381	fluorene	ND

Code	Method 610, cont.	Value
34403	indeno(1,2,3-cd)pyrene	PI <330
34696	naphthalene	ND
34461	phenanthrene	NA *
34469	pyrene	PI <330

	Method 611	
34273	bis(2-chloroethyl) ether	ND
34278	bis(2-chloroethoxy)methane	↓
34283	bis(2-chloroisopropyl)ether	↓
34636	4-bromophenylphenyl ether	↓
34641	4-chlorophenylphenyl ether	↓

	Method 612	
34386	hexachlorocyclopentadiene	ND
34391	hexachlorobutadiene	↓
39700	hexachlorobenzene	↓
34581	2-chloronaphthalene	↓
34536	1,2-dichlorobenzene	↓
34566	1,3-dichlorobenzene	↓
34571	1,4-dichlorobenzene	↓
34396	hexachloroethane	↓
34551	1,2,4-trichlorobenzene	↓

	Other	
	Chrysene	PI <330

*: Reporting units, unless otherwise noted-- water, µg/L; sediment, µg/Kg; tissue, mg/kg; air, µg

Unit Supervisor Robin L. Herrings Date: 3-30-88

Signature of supervisor indicates that the work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:

Comments: PI-Presence indicated NA * - NOT ANALYZED DUE TO INTERFERENCE

PH-3016

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS,
Purgeables and Acid Extractables

Sample Source: Hockey Rd Bridge Dam Site # 33.5 W
Stream Mile ____ Depth ____ County Hamilton
Topo Map No. ____ Quadrant ____
Collected: Date 03-05-88 Time 1140 By ARD
Field No. 6 Potential Hazard ____

Laboratory Number SW 1207 01 1
Received: Date 03-30-88 Time 0130 By LLR

Sample Priority
☐ Emergency; ☐ Legal; ☐ Routine; ☐ Ambient
☐ Air ☐ Sediment; ☐ Tissue; ☐ Water

Sampling Agency: ☐APC; ☒SWM; ☐WM; ☐Other ____
If SWM: ☐SW; ☐SS; ☐3012; ☐Other ____
If WM: ☐GW; ☐WP; ☐WS; ☐Other ____
Send Report to ____

Code	Halogenated Purgeables	Value*
32104	bromoform	
32101	bromodichloromethane	
34413	bromomethane	
32102	carbon tetrachloride	
34301	chlorobenzene	
34311	chloroethane	
34576	2-chloroethylvinyl ether	
32106	chloroform	
34418	chloromethane	
32105	dibromochloromethane	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34668	dichlorodifluoromethane	
34496	1,1-dichloroethane	
34531	1,2-dichloroethane	
34501	1,1-dichloroethene	
34546	trans-1,2-dichloroethene	
34541	1,2-dichloropropane	
34045	cis-1,3-dichloropropene	
34699	trans-1,3-dichloropropene	
34423	methylene chloride	
34516	1,1,2,2-tetrachloroethane	

Code		Value
34475	tetrachloroethene	
34506	1,1,1-trichloroethane	
34511	1,1,2-trichloroethane	
39180	trichloroethene	
39488	trichlorofluoromethane	
39715	vinyl chloride	
	Aromatic Purgeables	
34030	benzene	
34301	chlorobenzene	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34371	ethylbenzene	
34010	toluene	
	m-xylene	
	o-xylene	
	p-xylene	
	Other Purgeables	
34210	acrolein	
34215	acrylonitrile	

	Acid Extractables	Value
34552	4-chloro-3-methyl phenol	ND
34586	2-chlorophenol	
34601	2,4-dichlorophenol	
34606	2,4-dimethylphenol	
24616	2,4-dinitrophenol	
34657	2-methyl-4,6-dinitrophenol	
34591	2-nitrophenol	
34646	4-nitrophenol	
39032	pentachlorophenol	
34694	phenol	
34681	2,4,6-trichlorophenol	
	Other	

*: Unless otherwise indicated, reporting units are:
air = total µg
soil = µg/Kg
tissue = mg/Kg
water = µg/L

Unit Supervisor: Robin L. Herrings Date: 3-30-88
Signature of supervisor indicates that work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:
Comments: ____

SUPERFUND

FED 343.38-11

REPORT OF SEDIMENT ANALYSES

MAR 16 1988

Division of Water Quality Control

Tennessee Department of Public Health

SOURCE: Hooker Rd. Bridge Dump Mile LEGAL

IDENTIFICATION: # 33590 Hamiton County

Field Number 7 Collected By APD Primary Station Number _____ Date Collected 2/25/88

Time Collected 11:50 Sample Depth (ft.) _____ Laboratory Number SWM 1208

All Results Reported on Dry Weight Basis

	Conc.	STORET No.	
Aluminum as Al Mg/Kg		01108	
Arsenic as As Mg/Kg		01003	
X Barium as Ba Mg/Kg	19.1	01008	
Boron as B Mg/Kg		01023	
X Cadmium as Cd Mg/Kg	2.3	01028	
X Chromium-total as Cr Mg/Kg	9	01029	
Cobalt as Co Mg/Kg		01038	
X Copper as Cu Mg/Kg	23	01043	
Iron as Fe Mg/Kg		01170	
X Lead as Pb Mg/Kg	15	01052	
Manganese as Mn Mg/Kg		01053	
X Mercury-total as Hg Mg/Kg	<0.100	71921	
X Nickel as Ni Mg/Kg	CEE ~~118~~ 137200	01068	
X Selenium as Se Mg/Kg	1.6	01148	
X Silver as Ag Mg/Kg	0.4	01078	
X Zinc as Zn Mg/Kg	43.4	01093	
5-day B.O.D. 20° C Mg/Kg			
C.O.D. Mg/Kg			
Oxygen uptake Mg/Kg			
Chlorine Demand, 30 min. Mg/Kg			
Cyanide as CN Mg/Kg			
Nitrates as N Mg/Kg			
Ammonia as N Mg/Kg			
Kjeldahl Nitrogen as N Mg/Kg			
Phosphate as P Mg/Kg			
Phenols Mg/Kg			
Oil and Grease Mg/Kg			
Sulfide as S Mg/Kg			
Solids, per cent			
Volatile Solids, per cent			
Silica as SiO_2 Mg/Kg			

REMARKS _____

Craig Edwards 3/16

PH-0548
WQC 12/79

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 8 Sampling Agency SWM / FSF

Laboratory Sample No. Ø 1272 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-8-88

Sample Source & Identification: Hooker Rd. bridge dump Site # 33590

analyzed 3-4-88 Sediment

HALOGENATED VOLATILE ORGANIC ANALYSIS

A ~~ML.~~ 10.1572g SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 or 570 G.C. AND ANALYZED USING A HALL 700A ELECTROCONDUCTIVITY DETECTOR IN THE CHLORINE MODE.

COLUMN:	1% SP-1000/CARBOPACK B
STARTING TEMP:	45°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	8° PER MIN.
FINAL TEMP:	200°C
FINAL HOLD:	18 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Chloromethane	ND	Cis-1,3-Dichloropropene	ND
Bromomethane		Trichloroethylene	0.0982
Dichlorodifluoromethane		Dibromochloromethane	ND
Vinyl Chloride		1,1,2-Trichloroethane	
Chloroethane		Trans-1,3-Dichloropropene	
Methylene Chloride		2-Chloroethylvinyl ether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethylene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethylene	
Trans-1,2-Dichloroethylene		Chlorobenzene	
Chloroform		1,3-Dichlorobenzene	
1,2-Dichloroethane		1,2-Dichlorobenzene	
1,1,1-Trichloroethane		1,4-Dichlorobenzene	
Carbon Tetrachloride			
Bromodichloromethane			
1,2-Dichloropropane			

Remarks: ND- None Detected

WAT PH-0547
Form 2

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 8 Sampling Agency SWM/FSE

Laboratory Sample No. Ø 1272 Date Collected 2-25-88 APD Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-8-88

Sample Source & Identification: Hooker Rd. Bridge Dump Site # 33590

analyzed 3-1-88 Sediment

AROMATIC VOLATILE ORGANIC ANALYSIS

A 10.4420g ML. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR.

COLUMN:	5% SP-1200/0.75% Bentone
STARTING TEMP:	50°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	6° PER MIN.
FINAL TEMP:	110°C
FINAL HOLD:	20 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Benzene	ND	1,4-Dichlorobenzene	ND
Toluene	↓	1,3-Dichlorobenzene	↓
Chlorobenzene	↓	1,2-Dichlorobenzene	↓
Ethyl Benzene	↓		
p-Xylene	↓		
m-Xylene	↓		
o-Xylene	↓		
Styrene	↓		

Remarks:

PH-2398
LAB 9/86
Form 2

SWM

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 8

Laboratory Sample No. 1272 MS Date Received: 2-29-88 Date Completed: 3-8-88

Sample Collected By: APD Date Collected: 2-25-88

Sample Source & Identification: Hooker Rd. Bridge Dump Site #33590

FSF

Analytical Procedures and Treatment of Sample:

The sediment and 20mls VOA-pure H_2O were added to a 60 ml vial, shaken well and then purged on a Tekmar Liquid Sample Concentrator with He ↑ @ 40ml/min for 15min. The Tenax trap was desorbed @ 190°C by in-jection onto a 1% SP-1000/CP-8 column of a Finnigan 3200 F GC-MS. The oven temperature was then programmed from 30° - 220°C @ 10° per minute.

Compound Requested

Compound	Compound	Compound
1. Trichloroethylene - C	8.	15.
2. *	9.	16.
3.	10.	17.
4.	11.	18.
5.	12.	19.
6.	13.	20.
7.	14.	21.

Remarks: C-confirmed

* - No acetone or methyl ethyl Ketone detected in this sample

TDPH-WC
B-288
Rev. 4/

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS
Base/Neutral Extractables

Sample Source: Hooker S.A. Pedge Dump Site #33,540
Stream Mile: ____ Depth: ____ County: Hamilton
Topo Map No.: ____ Quadrant: ____
Collected: Date 3-30-88 Time 1200 By APD
Field No. 9 Potential Hazard: ____

Sample Type: ☐ Emergency; ☐ Legal; ☐ Routine; ☐ Ambient; ☐ Air; ☐ Sediment; ☐ Tissue; ☐ Water

Laboratory Number SPM 1208 & 12
Received: Date 3-31-88 Time 2000 By LLH
Sampling Agency: ☐APC; ☐SWM; ☐WM; ☐Other ____
If SWM: ☐SW; ☐SS; ☐3012; ☐Other ____
If WM: ☐GW; ☐WP; ☐WS; ☐Other ____
Send Report to ____

Code	Method 605	Value*
39120	benzidine	NA
34631	3,3'-dichlorobenzidine	↓

	Method 606	
34292	butylbenzylphthalate	ND
39100	bis(2-ethylhexyl)phthalate	↓
39110	di-n-butylphthalate	↓
34596	di-n-octylphthalate	↓
34336	diethylphthalate	↓
34341	dimethylphthalate	↓

	Method 607	
34438	n-nitrosodimethylamine	ND
34433	n-nitrosodiphenylamine	↓
34428	n-nitroso di-n-propylamine	↓

	Method 608	
39330	aldrin	ND
39337	a-BHC	↓
39338	b-BHC	↓
34259	d-BHC	↓
39340	g-BHC	↓
39350	chlordane	↓
38310	4,4'-DDD	↓
39320	4,4'-DDE	PI*
39300	4,4'-DDT	ND
39380	dieldrin	PI
34361	endosulfan I	ND
34242	endosulfan II	↓
34351	endosulfan sulfate	↓
39390	endrin	↓

Code	Method 608, cont.	Value
34366	endrin aldehyde	ND
39410	heptachlor	↓
39420	heptachlor epoxide	↓
39400	toxaphene	↓
	PCB-1016 /1242	↓
39488	PCB-1221	↓
39492	PCB-1232	↓
39500	PCB-1248	↓
39504	PCB-1254	↓
39508	PCB-1260	↓
81649	PCB-1262	↓
39480	methyoxychlor	↓

	Method 609	
34408	isophorone	ND
34447	nitrobenzene	↓
34611	2,4-dinitrotoluene	ND
34626	2,6-dinitrotoluene	↓

	Method 610	
34205	acenaphthene	ND
34200	acenanaphthylene	↓
34220	anthracene	↓
34526	benzo(a)anthracene	↓
34247	benzo(a)pyrene	↓
34230	benzo(b)fluoranthene	↓
34521	benzo(ghi)perylene	↓
34242	benzo(k)fluoranthene	↓
34556	dibenzo(a,h)anthracene	↓
34376	fluoranthene	↓
34381	fluorene	↓

Code	Method 610, cont.	Value
34403	indeno(1,2,3-cd)pyrene	ND
34696	naphthalene	↓
34461	phenanthrene	↓
34469	pyrene	↓

	Method 611	
34273	bis(2-chloroethyl) ether	ND
34278	bis(2-chloroethoxy)methane	↓
34283	bis(2-chloroisopropyl)ether	↓
34636	4-bromophenylphenyl ether	↓
34641	4-chlorophenylphenyl ether	↓

	Method 612	
34386	hexachlorocyclopentadiene	ND
34391	hexachlorobutadiene	↓
39700	hexachlorobenzene	↓
34581	2-chloronaphthalene	ND
34536	1,2-dichlorobenzene	↓
34566	1,3-dichlorobenzene	↓
34571	1,4-dichlorobenzene	↓
34396	hexachloroethane	↓
34551	1,2,4-trichlorobenzene	↓

	Other	
	Chrysene	ND

*: Reporting units, unless otherwise noted--water, µg/L; sediment, µg/Kg; tissue, mg/kg; air, µg

Unit Supervisor: Robin L. Herrera Date: 3-30-88

Signature of supervisor indicates that the work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:

Comments: PI - Presence Indicated to low to quantitate
[illegible] indicated [illegible] quantitate due to interference

PH-3016

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS,
Purgeables and Acid Extractables

Laboratory Number [illegible]
Received: Date [illegible] Time [illegible] By [illegible]

Sample Source Hooker Rd Bridge Dump
Site # 33590
Stream Mile ____ Depth ____ County Hamilton
EPA Map No. ____ Quadrant ____
Collected: Date [illegible] Time 17:00 By [illegible]
Field No. 0 Potential Hazard ____

Sample Priority
☐ Emergency; ☐ Legal; ☐ Routine; ☐ Ambient
☐ Air ☐ Sediment; ☐ Tissue; ☐ Water

Sampling Agency: ☐APC; ☐SWM; ☐WM; ☐Other ____
If SWM: ☐SW; ☐SS; ☐3012; ☐Other ____
If WM: ☐GW; ☐WP; ☐WS; ☐Other ____
Send Report to ____

Code	Halogenated Purgeables	Value*
32104	bromoform	
32101	bromodichloromethane	
34413	bromomethane	
32102	carbon tetrachloride	
34301	chlorobenzene	
34311	chloroethane	
34576	2-chloroethylvinyl ether	
32106	chloroform	
34418	chloromethane	
32105	dibromochloromethane	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34668	dichlorodifluoromethane	
34496	1,1-dichloroethane	
34531	1,2-dichloroethane	
34501	1,1-dichloroethene	
34546	trans-1,2-dichloroethene	
34541	1,2-dichloropropane	
34045	cis-1,3-dichloropropene	
34699	trans-1,3-dichloropropene	
34423	methylene chloride	
34516	1,1,2,2-tetrachloroethane	

Code		Value
34475	tetrachloroethene	
34506	1,1,1-trichloroethane	
34511	1,1,2-trichloroethane	
39180	trichloroethene	
39488	trichlorofluoromethane	
39715	vinyl chloride	

	Aromatic Purgeables	
34030	benzene	
34301	chlorobenzene	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34371	ethylbenzene	
34010	toluene	
	m-xylene	
	o-xylene	
	p-xylene	

	Other Purgeables	
34210	acrolein	
34215	acrylonitrile	

	Acid Extractables	Value
34552	4-chloro-3-methyl phenol	ND
34586	2-chlorophenol	
34601	2,4-dichlorophenol	
34606	2,4-dimethylphenol	
24616	2,4-dinitrophenol	
34657	2-methyl-4,6-dinitrophenol	
34591	2-nitrophenol	
34646	4-nitrophenol	
39032	pentachlorophenol	
34694	phenol	
34681	2,4,6-trichlorophenol	✓

	Other	

*: Unless otherwise indicated, reporting units are:
air = total µg
soil = µg/Kg
tissue = mg/Kg
water = µg/L

Unit Supervisor: Robin L. Hruza Date: 3-30-88
Signature of supervisor indicates that work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:
Comments: ____

SUPERFUND
343.38-[redacted]

MAR 16 1988

REPORT OF FISH ANALYSES

Division of Water Quality Control — Tennessee Department of Public Health

LEGAL

SOURCE: Hooker Rd. Bridge Dump Mile

IDENTIFICATION: # 33590 Hamilton County

Field Number 10 Collected by APD Primary Station Number Date Collected 2/25/88

Time Collected 11:45 Sample Depth (ft.) Laboratory Number SWM1209

All Results Reported on Wet Weight Basis

	Conc.	STORET No.
Aluminum as AL Mg/Kg		
Arsenic as As Mg/Kg		01004
X Barium as Ba Mg/Kg	79.4	
Boron as B Mg/Kg		
X Cadmium as Cd Mg/Kg	1.3	71940
X Chromium-total as Cr Mg/Kg	34	71939
Cobalt as Co Mg/Kg		
X Copper as Cu Mg/Kg	37	71937
Iron as Fe Mg/Kg		
X Lead as Pb Mg/Kg	76	71936
Manganese as Mn Mg/Kg		
X Mercury-total as Hg Mg/Kg	0.130	71930
X Nickel as Ni Mg/Kg	1118	01069
X Selenium as Se Mg/Kg	0.2	01149
X Silver as Ag Mg/Kg	0.6	
X Zinc as Zn Mg/Kg	102	71938
5-day B.O.D. 20°C Mg/Kg		
C.O.D. Mg/Kg		
Oxygen uptake Mg/Kg		
Chlorine Demand, 30 min. Mg/Kg		
Cyanide as CN Mg/Kg		
Nitrates as N Mg/Kg		
Ammonia as N Mg/Kg		
Kjeldahl Nitrogen as N Mg/Kg		
Phosphate as P Mg/Kg		
Phenols Mg/Kg		
Oil and Grease Mg/Kg		
Sulfide as S Mg/Kg		
Solids, per cent		
Volatile Solids, per cent		
Silica as SiO_2 Mg/Kg		

REMARKS

Craig Edwards 3/16

PH-1958
WAT 1/80

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 11 Sampling Agency SWM/FSF

Laboratory Sample No. Ø 1274 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed 3-17-88

Sample Source & Identification: Hooker Rd. bridge dump
Site # 33590

analyzed 3-4-88 Sediment

HALOGENATED VOLATILE ORGANIC ANALYSIS

A 10.3759gr ~~ML~~ SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 or 570 G.C. AND ANALYZED USING A HALL 700A ELECTROCONDUCTIVITY DETECTOR IN THE CHLORINE MODE.

COLUMN:	1% SP-1000/CARBOPACK B
STARTING TEMP:	45°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	8° PER MIN.
FINAL TEMP:	200°C
FINAL HOLD:	18 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Chloromethane	ND	Cis-1,3-Dichloropropene	ND
Bromomethane		Trichloroethylene	0.1150
Dichlorodifluoromethane		Dibromochloromethane	ND
Vinyl Chloride		1,1,2-Trichloroethane	
Chloroethane		Trans-1,3-Dichloropropene	
Methylene Chloride		2-Chloroethylvinyl ether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethylene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethylene	
Trans-1,2-Dichloroethylene		Chlorobenzene	
Chloroform		1,3-Dichlorobenzene	
1,2-Dichloroethane		1,2-Dichlorobenzene	
1,1,1-Trichloroethane		1,4-Dichlorobenzene	
Carbon Tetrachloride		trans+cis-1,2-Dichloroethylene	
Bromodichloromethane			
1,2-Dichloropropane			

Remarks: ND - None Detected

WAT PH-0547
Form 2

ORGANIC LABORATORY ANALYSIS REPORT

Field Log No. 11 Sampling Agency SWM/FSF

Laboratory Sample No. Ø 1274 Date Collected 2-25-88 Date Received: 2-29-88

Sampled Collected By: APD Date Completed ~~3-8-88~~ 3-17-88 CBA

Sample Source & Identification: Hewlett Rd. Bridge Dump

Site # 33590

analyzed 3-2-88 Sediment

AROMATIC VOLATILE ORGANIC ANALYSIS

A 10.30 gm ML. SAMPLE FROM A SPECIALLY PREPARED VOA BOTTLE IS PURGED ONTO A TENAX TRAP USING ULTRA HIGH PURITY HELIUM. THE TRAP IS THEN DESORBED TO A TRACOR 560 G.C. AND ANALYZED USING A FLAMEIONIZATION DETECTOR.

COLUMN:	5% SP-1200/0.75% Bentone
STARTING TEMP:	50°C
INITIAL HOLD:	4 MIN.
PROGRAM RATE:	6° PER MIN.
FINAL TEMP:	110°C
FINAL HOLD:	20 MIN.

COMPOUND	RESULTS (ppb)	COMPOUND	(RESULTS (ppb)
Benzene	ND	1,4-Dichlorobenzene	ND
Toluene	↓	1,3-Dichlorobenzene	↓
Chlorobenzene	↓	1,2-Dichlorobenzene	↓
Ethyl Benzene	↓	Acetone	ND
p-Xylene	↓	MIBK	↓
m-Xylene	↓	MEK	↓
o-Xylene	↓	MEK	↓
Styrene	↓		

Remarks:

PH-2398
LAB 9/86
Form 2

SWM

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 11

Laboratory Sample No. Ø 1274MS Date Received: 2-29-88 Date Completed: 3-17-88

Sample Collected By: APD Date Collected: 2-25-88

Sample Source & Identification: Hooker Rd. Bridge Dump Site

Site # 33590

FSF

Analytical Procedures and Treatment of Sample:

The sediment and 20mls VOA-pure H_2O were added to a 60ml vial, shaken well and then purged on a Tekmar Liquid Sample Concentrator with He ↑ @ 40ml/min for 15min. The Tenax trap was desorbed @ 190°C by injection onto a 1% SP-1000/CP-8 column of a Finnigan 3200 F GC-MS. The oven temperature was then programmed from 30° -220°C @ 10° per minute.

Compound Requested

Compound	Compound	Compound
1. Trichloroethylene-C	8.	15.
2.	9.	16.
3.	10.	17.
4.	11.	18.
5.	12.	19.
6.	13.	20.
7.	14.	21.

Remarks: C-confirmed

TDPH-B-288 Rev.

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS
Base/Neutral Extractables

Sample Source: Hooker Rd Bridge Dump Site #33590
Stream Mile: ____ Depth: ____ County: Hamilton
Topo Map No.: ____ Quadrant: ____
Collected: Date: 2-25-88 Time: 1215 By: ARD
Field No.: 12 Potential Hazard: ____

Sample Type: ☐ Emergency; ☒ Legal; ☐ Routine; ☐ Ambient; ☐ Air; ☒ Sediment; ☐ Tissue; ☐ Water

Laboratory Number: SMM 1209 & 1275
Received: Date: [illegible] Time: [illegible] By: [illegible]
Sampling Agency: ☐APC; ☐SWM; ☐WM; ☐Other ____
If SWM: ☐SW; ☐SS; ☐3012; ☐Other ____
If WM: ☐GW; ☐WP; ☐WS; ☐Other ____
Send Report to ____

Code	Method 605	Value*
39120	benzidine	NA
34631	3,3'-dichlorobenzidine	NA

	Method 606	
34292	butylbenzylphthalate	ND
39100	bis(2-ethylhexyl)phthalate	↓
39110	di-n-butylphthalate	↓
34596	di-n-octylphthalate	↓
34336	diethylphthalate	↓
34341	dimethylphthalate	↓

	Method 607	
34438	n-nitrosodimethylamine	ND
34433	n-nitrosodiphenylamine	↓
34428	n-nitroso di-n-propylamine	↓

	Method 608	
39330	aldrin	ND
39337	a-BHC	↓
39338	b-BHC	↓
34259	d-BHC	↓
39340	g-BHC	↓
39350	chlordane	↓
38310	4,4'-DDD	PI
39320	4,4'-DDE	5.23
39300	4,4'-DDT	PI
39380	dieldrin	13.16
34361	endosulfan I	ND
34242	endosulfan II	↓
34351	endosulfan sulfate	↓
39390	endrin	↓

Code	Method 608, cont.	Value
34366	endrin aldehyde	ND
39410	heptachlor	↓
39420	heptachlor epoxide	↓
39400	toxaphene	↓
	PCB-1016 / 1242	↓
39488	PCB-1221	↓
39492	PCB-1232	↓
39500	PCB-1248	↓
39504	PCB-1254	↓
39508	PCB-1260	↓
81649	PCB-1262	↓
39480	methyoxychlor	↓

	Method 609	
34408	isophorone	ND
34447	nitrobenzene	↓
34611	2,4-dinitrotoluene	ND
34626	2,6-dinitrotoluene	ND

	Method 610	
34205	acenaphthene	ND
34200	acenanaphthylene	↓
34220	anthracene	↓
34526	benzo(a)anthracene	↓
34247	benzo(a)pyrene	↓
34230	benzo(b)fluoranthene	↓
34521	benzo(ghi)perylene	↓
34242	benzo(k)fluoranthene	↓
34556	dibenzo(a,h)anthracene	↓
34376	fluoranthene	↓
34381	fluorene	↓

Code	Method 610, cont.	Value
34403	indeno(1,2,3-cd)pyrene	ND
34696	naphthalene	↓
34461	phenanthrene	↓
34469	pyrene	↓

	Method 611	
34273	bis(2-chloroethyl) ether	ND
34278	bis(2-chloroethoxy)methane	↓
34283	bis(2-chloroisopropyl)ether	↓
34636	4-bromophenylphenyl ether	↓
34641	4-chlorophenylphenyl ether	↓

	Method 612	
34386	hexachlorocyclopentadiene	ND
34391	hexachlorobutadiene	↓
39700	hexachlorobenzene	↓
34581	2-chloronaphthalene	ND
34536	1,2-dichlorobenzene	ND
34566	1,3-dichlorobenzene	↓
34571	1,4-dichlorobenzene	↓
34396	hexachloroethane	↓
34551	1,2,4-trichlorobenzene	↓

	Other	
	Chrysene	ND

*: Reporting units, unless otherwise noted--water, µg/L; sediment, µg/Kg; tissue, mg/kg; air, µg

Unit Supervisor: Robin L. Herrington Date: 3-30-88

Signature of supervisor indicates that the work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:

Comments: ____

PH-3016

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT
ENVIRONMENTAL LABORATORIES
ORGANIC ANALYSIS,
Purgeables and Acid Extractables

Sample Source: Hooker Rd Bridge Dump Site # 33590
Stream Mile ____ Depth ____ County Hamilton
Topo Map No. ____ Quadrant ____
Collected: Date 02-25-88 Time 1215 By APD
Field No. 17 Potential Hazard ____

Laboratory Number SWM 1297 [illegible]
Received: Date 03-29-88 Time 0930 By [illegible]

Sample Priority
☐ Emergency; ☐ Legal; ☐ Routine; ☐ Ambient
☐ Air ☐ Sediment; ☐ Tissue; ☐ Water

Sampling Agency: ☐APC; ☒SWM; ☐WM; ☐Other ____
If SWM: ☐SW; ☐SS; ☐3012; ☐Other ____
If WM: ☐GW; ☐WP; ☐WS; ☐Other ____
Send Report to ____

Code	Halogenated Purgeables	Value*
32104	bromoform	
32101	bromodichloromethane	
34413	bromomethane	
32102	carbon tetrachloride	
34301	chlorobenzene	
34311	chloroethane	
34576	2-chloroethylvinyl ether	
32106	chloroform	
34418	chloromethane	
32105	dibromochloromethane	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34668	dichlorodifluoromethane	
34496	1,1-dichloroethane	
34531	1,2-dichloroethane	
34501	1,1-dichloroethene	
34546	trans-1,2-dichloroethene	
34541	1,2-dichloropropane	
34045	cis-1,3-dichloropropene	
34699	trans-1,3-dichloropropene	
34423	methylene chloride	
34516	1,1,2,2-tetrachloroethane	

Code		Value
34475	tetrachloroethene	
34506	1,1,1-trichloroethane	
34511	1,1,2-trichloroethane	
39180	trichloroethene	
39488	trichlorofluoromethane	
39715	vinyl chloride	

	Aromatic Purgeables	
34030	benzene	
34301	chlorobenzene	
34536	1,2-dichlorobenzene	
34566	1,3-dichlorobenzene	
34571	1,4-dichlorobenzene	
34371	ethylbenzene	
34010	toluene	
	m-xylene	
	o-xylene	
	p-xylene	

	Other Purgeables	
34210	acrolein	
34215	acrylonitrile	

	Acid Extractables	Value
34552	4-chloro-3-methyl phenol	ND
34586	2-chlorophenol	↓
34601	2,4-dichlorophenol	↓
34606	2,4-dimethylphenol	↓
24616	2,4-dinitrophenol	↓
34657	2-methyl-4,6-dinitrophenol	↓
34591	2-nitrophenol	↓
34646	4-nitrophenol	↓
39032	pentachlorophenol	↓
34694	phenol	↓
34681	2,4,6-trichlorophenol	↓

	Other	

*: Unless otherwise indicated, reporting units are:
air = total µg
soil = µg/Kg
tissue = mg/Kg
water = µg/L

Unit Supervisor: Robin L. Herrigs Date: 3-30-88
Signature of supervisor indicates that work was performed in accordance with federally approved procedures, where available, and in compliance with current quality assurance criteria except as qualified below:
Comments: ____

PH-3015 LAE 1/88

Site No. TND 980844229

Appendix E, Ref. No. 4

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

FROM	TO	DATE
RLP	FDM	

DATE: April 13, 1988

TO: The Hooker Road Bridge Dump File Site # 33-590

FROM: Robert L. Powell, TDSF Geologist

SUBJECT: Geological Assessment of the Hooker Road Bridge Dump Site

LOCATION

The Hooker Road Bridge Dump is located in the Alton Park section of Chattanooga just north of the Tennessee-Georgia line. The site is bordered on the north and east by Hooker Road and on the west by Chattanooga Creek and a small tributary that runs in a north-south direction from down in Georgia. (See reference #1)

TOPOGRAPHY

The site lies in a valley of low relief between two prominent ridges known as Hawkins Ridge (to the west) and Missionary Ridge (to the east). Relief in the site vicinity is approximately 20 feet or less as the floodplain is very flat-lying along this section of Chattanooga Creek. (see Reference #1)

GEOLOGY

The site is underlain by a group of rocks known as the Ordovician-Cambrian Knox Group, Undifferentiated. This group is described as a dolomite and minor limestone, very siliceous, light- to dark-gray, fine- to coarse-grained, thin- to thick-bedded, and weathers to a cherty rubble.

FROM	DATE

TO

The thickness is considered to be approximately 2600 feet thick. The Knox in the immediate vicinity of the site is mapped as a long narrow outcrop striking in a north-south direction that is controlled by thrust faults. Since relief is low formation boundaries are not as distinguishable and hence the area is mapped as a group.

A major thrust fault known as the Chattanooga Fault lies approximately 1200 feet to the west of the site. This fault trends in a notrh-south direction and semiparallel to other major thrust faults in East Tennessee. To the east the next major fault is the Missionary Ridge Fault which lies approximately 1.5 miles away. However, the area is complex and it is possible that less prominent thrusts are between this region the control of which is not well understood at present. (see reference #2)

HYDROLOGY, SURFACE

The site is drained by a small unnamed tributary which borders the site on the west. This tributary flows north-northwest and empties into Chattanooga Creek. Chattanooga Creek which also borders a portion of the

site on the west meanders north and west and ultimately empties into the Tennessee River in the Moccasin Bend area a few miles northwest of the site. (see reference #3)

HYDROLOGY; SUBSURFACE

The prominent unconsolidated material underlying the site is alluvium. It is not known to be an important source of groundwater probably due to its thin nature. However, groundwater in units of the Knox Group can be quite substantial with yields of 100 g.p.m. or more. The availability of groundwater in these limestones and dolomites is primarily dependent on the distribution of fractures and the amount of solutionally enlarged zones. Predicting the yield of a well is difficult because the distribution of such conduits is very often erratic. (Reference #4) This is possibly due to the siliceous nature of some of the Knox units. In the vicinity of the site it is believed that water is transmitted very readily in the Knox because just to the north there is an area of obvious sinkholes. (Reference #2, p. 59 and Reference #3)

There is a list of inventoried Industrial wells in this vicinity of Chattanooga. The depths of these wells range from tens of feet to over 1300 feet deep. The value of this list is that it indicates that these limestones and dolomites yield substantial amounts of water, however, the details of these well logs is suspect and therefore not considered very reliable. (Reference #5)

SOILS

The prominent soil type that has been mapped in the site vicinity is known as the Tupelo Silt Loam (Tu). The Tupelo Silt Loam is a somewhat poorly drained, nearly level and gently sloping soil on stream terraces, flat slopes of ridges, and in depressions on the uplands. Slopes range from 0 to 3 percent. The upper 8 inches is a yellowish-brown silty clay mottled in shades of brown and gray. The underlying material is a gray clay that extends to a depth of 60 inches or more.

This soil is low in organic matter and ranges from slightly acid to strongly acid throughout. The permeability is slow, and the available water capacity is moderate.

In the northeast corner of the site between Hooker Road and Chattanooga Creek there is a small section mapped as **Arents, gently sloping** (ArB). This map unit consists of soils that have bbeen moved or deeply mixed by machinery. Most of this unit is a result of cutting and filling to shape the land surface. These areas therefore are primarily fill material and very heterogeneous. (Reference #6)

REFERENCES

1. (1982) Fort Oglethorpe, GA-TN Quadrangle Topographic Map, 106-NE.

2. Edward T. Luther (1979): Geology of Hamilton County, TN, Bulletin 79, Tennessee Division of Geology, pp. 19, 119, and geologic map section.

3. (1976) Chattanooga Quadrangle Topographic Map, 105-SE.

4. G. D. DeBuchananne and R. M. Richardson (1956): Groundwater Resources of East Tennessee, Bulletin 58, Tennessee Division of Geology, p. 186.

5. (1987) Division of Groundwater Protection Printout of South Chattanooga wells.

6. (1982) Soil Survey of Hamilton County, TN U.S. Department of Agriculture, Soil Conservation Service, P. 11,36, and map # 65.

Site No. TND 980844229

Ref. No. 5

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

OFFICE CORRESPONDENCE

FROM		DATE

DATE: January 15, 1988

TO: SIU Files

FROM: Ferman Miller

SUBJECT: Details of Telecon - pertinent site information

On 14 Jan. 88 at 1:05 a.m./p.m. Bill Cooper, Exec. Dir. of Chattanooga Housing Authority contacted/was contacted by/returned Ferman D. Miller's call of TN Div. of Superfund CFO by telephone regarding Hooker Road Bridge #33590.

Details of conversation:

1. Ferman Miller requested permission to enter this site to do a SI. Mr. Cooper implied consent and asked for some background, which was supplied, and he requested to be informed if anything turns up.

2. No to splitting samples, if any samples are taken.

3. CHA has owned this property since the early 1960's.

FROM	DATE
TO	

Tele: 756-7171
Address: 505 W. MLK Blvd.
P.O. Box 1486
Chattanooga, TN 37401

PM-000
SR 377

Site No. IND 980844229.

Ref. No. C

SURVEY OF CHATTANOOGA CREEK--MOUTH TO STATE LINE
AQUATIC FLESH, WATER QUALITY, SEDIMENT, AND BENTHIC BIOLOGY
WITH
DATA PRESENTATION ON HAMILL ROAD DUMP
CHATTANOOGA, TENNESSEE

1981 and 1982

PREPARED BY:
CHATTANOOGA BASIN OFFICE OF
DIVISION OF WATER MANAGEMENT
TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

JUNE 1983

AUTHORIZATION NO. 0890

Site No. TND 980844323

Ref. No. 7

HOOKER RD. BRIDGE DUMP
TND 980844229

PLANNING DISTRICT ANALYSIS

CHATTANOOGA-HAMILTON COUNTY, TENNESSEE

P.D. #2 South Center City

Prepared by:

Chattanooga-Hamilton County Regional Planning Commission

Dale Mabee, Chairman
Richard Abercrombie
Arthur C. Campbell
Ron Littlefield
Ardena J. Garth
Robert J. Hames
Carolyn P. Henning
A.L. Jackson
Rathmell Plumlee
Philip E. Rhodes
Dalton Roberts, County Executive
Gene Roberts, Mayor of Chattanooga
Earl C. Smith
Howard Sompayrac
Mrs. Jinx White

Participating Staff

Thordis D. Harden, Executive Director
Harold E. Walters, Assistant Director
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*Jerry E. Pace, Chief of Graphics
Bill W. Allen, Transportation Planning Coordinator
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*Yuen Lee, Senior Planner
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Jewell Buckner, Administrative Assistant
Gloria Haney, Administrative Assistant
Ann Sitton, Secretary
*Carol Wilmhoff, Secretary

Summer, 1987

*Major Staff Members Assigned to Project

TABLES AND MAPS

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APPENDIX (MAPS)

Population and housing data for 1960, 1970 and 1980 were prepared by the U.S. Bureau of the Census. Population projections for 1985 and subsequent years, and the land use and land area measurements, were prepared by the Chattanooga-Hamilton County Regional Planning Commission.

PLANNING DISTRICT 2 ANALYSIS

INTRODUCTION

Location

Planning District 2 is within the southwestern part of the City of Chattanooga. It is bounded:

- on the north by I-24 and Chattanooga Creek,
- on the east by the Town of East Ridge,
- on the south by the Tennessee-Georgia state line, and
- on the west by the Chattanooga city limits at the foot of Lookout Mountain.

Census Tracts 18, 19, 23, 24 and 25 are included in this district.

Locally, Census tract 18 is known as St. Elmo, Census Tract 19 is known as Alton Park, and Census Tracts 23, 24, and 25 are known as East Lake and Missionary Ridge.

History

The settlement in this area probably began between 1860 and 1885. An 1886 lithograph shows Broad Street, a mill, the railroad crossing Chattanooga Creek, a bridge across Chattanooga Creek in the vicinity of Alton Park Boulevard, and Rossville Boulevard.

East Lake (Census Tracts 23, 24 and 25) was annexed to the City of Chattanooga in 1925.

St. Elmo (Census Tract 18), Alton Park (Census Tract 19) and Missionary Ridge were incorporated satellite cities, but gave up their charters and were annexed to Chattanooga in 1930.

LAND USES AND PHYSICAL FEATURES

The largest single category of land use in Planning District 2 is the "vacant" category. 42.5% of this land is subject to overflow, and 32.2% is too steep for easy development, but that still leaves about 460 acres in the district that could be developed relatively easily. The next largest land use category is residential with 26.2%, followed by streets with 15.2% of the land area.

For many reasons, not the least of which was the presence of a large amount of railroad trackage, Planning District 2 contains much of Chattanooga's older industrial development. While industrial uses might seem to dominate the district, that category of land use occupies only 7.5% of the total area and 10.6% of the developed area. The foundries and coal-tar based chemical operations tend to be located in the Alton Park area, while distribution and light industry are more widely distributed.

Trends

Throughout Planning District 2 a decrease in land devoted to single-family residential use is occurring. This can be explained somewhat by the conversion of single-family structures to two unit structures, particularly in Census Tract 18 (Saint Elmo). In Census Tracts 24 and 25 new duplex development along the base of Missionary Ridge has occurred and the decline in single-family uses is more frequently due to the conversion of single-family residential properties along Dodds Avenue to commercial use.

A moderate increase in commercial land is being experienced in all areas of the district except Saint Elmo where a slight decrease has occurred. The district is experiencing some expansion of industrial areas in Census Tracts 19, 23, and 24. However, field studies indicate that much of the existing industrial land in these areas is underutilized.

Opportunities

Roughly one third of the total acreage in Planning District 2 remains vacant. However, large areas prone to flooding make up most of this acreage. Much of the rest is difficult to develop due to steep slopes (Missionary Ridge, the ridge between St. Elmo and Alton Park, and Lookout Mountain). Still, land for development and redevelopment is available and can be utilized with effective development controls in some areas and private and public market incentives in others.

LAND USE CHANGES (ACREAGE)

Land Use	Tract 23 1985 Acres	Tract 23 1972 %	Tract 23 1985 %	Tract 24 1985 Acres	Tract 24 1972 %	Tract 24 1985 %
Residential	182.6	16.3	16.9	374.1	50.7	49.1
Single-Family	159.0	15.0	14.7	342.4	49.0	44.9
Duplexes	19.5	1.0	1.8	22.5	1.2	3.0
Multi-Family	2.6	.1	1.8	8.0	.3	1.0
Residential Parking	.0	-	-	.0	-	-
Trailers	.4	-	-	.0	-	-
Vacant	1.1	.2	.1	1.2	.3	.2
Industrial	85.0	7.4	7.9	25.8	3.1	3.4
Commercial	105.8	5.5	9.8	55.3	6.0	7.3
Institutional	23.0	1.6	2.1	20.9	2.0	2.7
Recreation	2.5	-	.2	10.5	1.5	1.4
Transportation Communication and Utilities	34.0	3.0	3.2	7.6	.9	1.0
Agriculture	.4	-	-	.0	-	-
Streets	154.4	13.8	14.3	162.1	21.0	21.3
Vacant	482.0	51.6	44.7	105.7	14.9	13.9
Water	9.5	.8	.9	.0	-	-
TOTAL	1,079.3	100.0	100.0	762.0	100.0	100.0

POPULATION PROJECTIONS

CENSUS TRACT	1980	1985	1990	1995	2000	1980-2000 % Change
18	4,188	3,883	3,577	3,162	2,748	- 34.4
19	7,515	7,027	6,539	6,189	5,839	- 22.3
23	1,925	1,702	1,480	1,232	983	- 49.0
24	4,705	4,314	3,922	3,546	3,170	- 32.6
25	5,064	4,570	4,077	3,745	3,414	- 32.6
Total District	23,397	21,496	19,595	17,874	16,154	- 30.6
County	287,740	297,004	306,267	314,294	322,320	+ 12.01

GROSS DENSITY
POPULATION PER ACRE

CENSUS TRACTS	1960	1970	1980
18	3.1	2.9	2.4
19	5.0	5.0	4.2
23	3.1	2.3	1.8
24	8.2	7.1	6.2
25	7.2	5.3	5.1
Total District	4.9	4.3	3.7
County	.6	.7	.8

POPULATION

Characteristics

The population in Planning District 2 is racially mixed with a higher percentage of minorities than the city as a whole. Generally, the East Lake area remains predominantly white, the Alton Park area is predominantly black, and Saint Elmo is mixed. Overall, the district's population has more elderly citizens and more school age children by percentage than the SMSA average. Census Tract 19's youth population is well above the average while the other tracts are more typical in that regard. All census tracts except 19 have elderly populations above the SMSA average.

The educational levels of the district's population throughout are well below the city average. Family incomes throughout the district are also well below the city and county averages. Only Census Tract 24 has a percentage of family incomes below the poverty level that fall below the city and county median. Over a third of the families in Planning District 2 are headed by single women. In Census Tract 19 single parenthood has reached crisis proportions.

Trends

A continued decline in population is projected for all census tracts in Planning District 2. Meanwhile, the minority percentage of the total population increases. The percentage of elderly in the population is increasing in all census tracts, while the school age population is decreasing. Educational level averages are increasing in all Census Tracts except 18. Real income is falling on average in Census Tracts 18, 19 and 25, and rising in Tracts 23 and 24.

POPULATION

Tract	1960	1970	% Change	1980	% Change
18	5,372	4,948	- 7.9	4,188	- 15.4
19	8,984	8,901	- 0.9	7,515	- 15.6
23	3,292	2,429	- 26.2	1,925	- 20.7
24	6,283	5,398	- 14.1	4,705	- 12.8
25	7,161	5,304	- 25.9	5,064	- 4.5
Total District	31,092	26,980	- 13.2	23,397	- 13.3
City	130,009	119,082	- 8.4	169,565	42.4
County	237,905	254,236	6.9	287,740	13.2
SMSA	283,169	304,927	7.7	426,540	39.9

RACE

	1960		1970		1980	
Tract	% White	% Non-White	% White	% Non-White	% White	% Non-White
18	73.0	27.0	72.4	27.6	59.9	40.1
19	8.2	91.8	2.6	97.4	1.4	98.6
23	84.9	15.1	86.4	13.6	84.9	15.1
24	99.2	0.8	99.0	1.0	97.9	2.1
25	91.3	8.7	90.3	9.7	76.8	23.2
Total District	65.1	34.9	59.5	40.5	54.5	45.5
City	66.7	33.3	64.0	36.0	67.7	32.3
County	80.1	19.9	81.6	18.4	79.9	20.1
SMSA	82.4	17.6	83.8	16.2	85.4	14.6

HOUSING UNITS WITHOUT COMPLETE PLUMBING

Census Tracts	1960 Total Housing Units	1960 % of Total W/O Plumb	1970 Total Housing Units	1970 % of Total W/O Plumb	1980 Total Housing Units	1980 % of Total W/O Plumb
18	1804	7.9	1830	1.4	1757	1.4
19	2129	22.2	2543	.5	2346	.9
23	942	29.3	837	4.8	766	.4
24	2013	17.0	1984	1.3	1988	1.4
25	2291	9.2	2064	.8	2145	.6
Total	9179	15.7	9258	1.3	9002	1.0
City	41979	19.9	43857	2.1	66583	.9
County	74377	19.5	87473	4.0	109969	1.2
SMSA	87929	21.0	103879	5.0	160615	1.9

HOUSING UNIT PROJECTIONS

Census Tract	1980	1985	1990	1995	2000	% Change (1980-2000)
18	1,757	1,706	1,654	1,524	1,395	-20.6
19	2,346	2,366	2,385	2,353	2,321	- 1.1
23	766	710	653	565	477	-37.7
24	1,988	1,938	1,887	1,784	1,680	-15.5
25	2,145	2,063	1,982	1,893	1,803	-15.9
Total District	9,002	8,781	8,561	8,119	7,676	-14.7
County	109,969	120,423	130,876	139,973	149,070	35.6

Recreation Facilities

Alton Park Recreation Center

McCallie Homes Recreation Center

Emma Wheeler Recreation Center

Poss Homes Recreation Center

East Lake Courts Recreation Center

East Lake Recreation Center

East Lake Park

Cedar Hill Playground

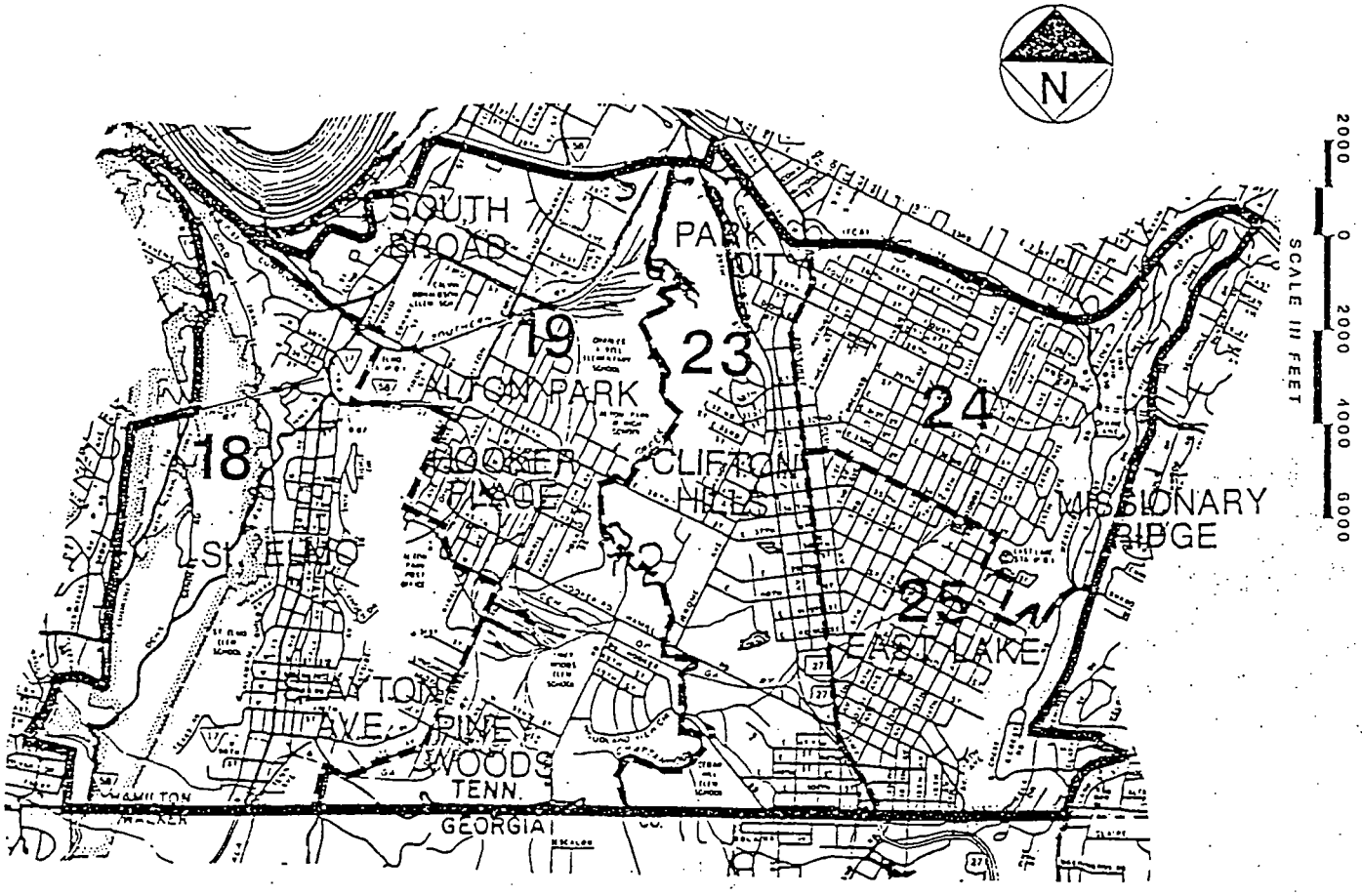
Piney Wood Playground

Park City Playground

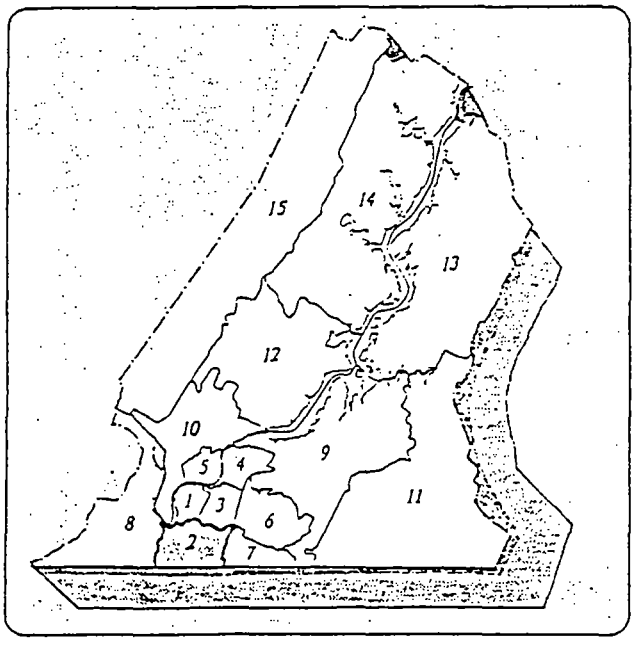
Bragg Reservation

PLANNING DISTRICT 2

CENSUS TRACTS AND NEIGHBORHOODS



SOUTH CENTER CITY

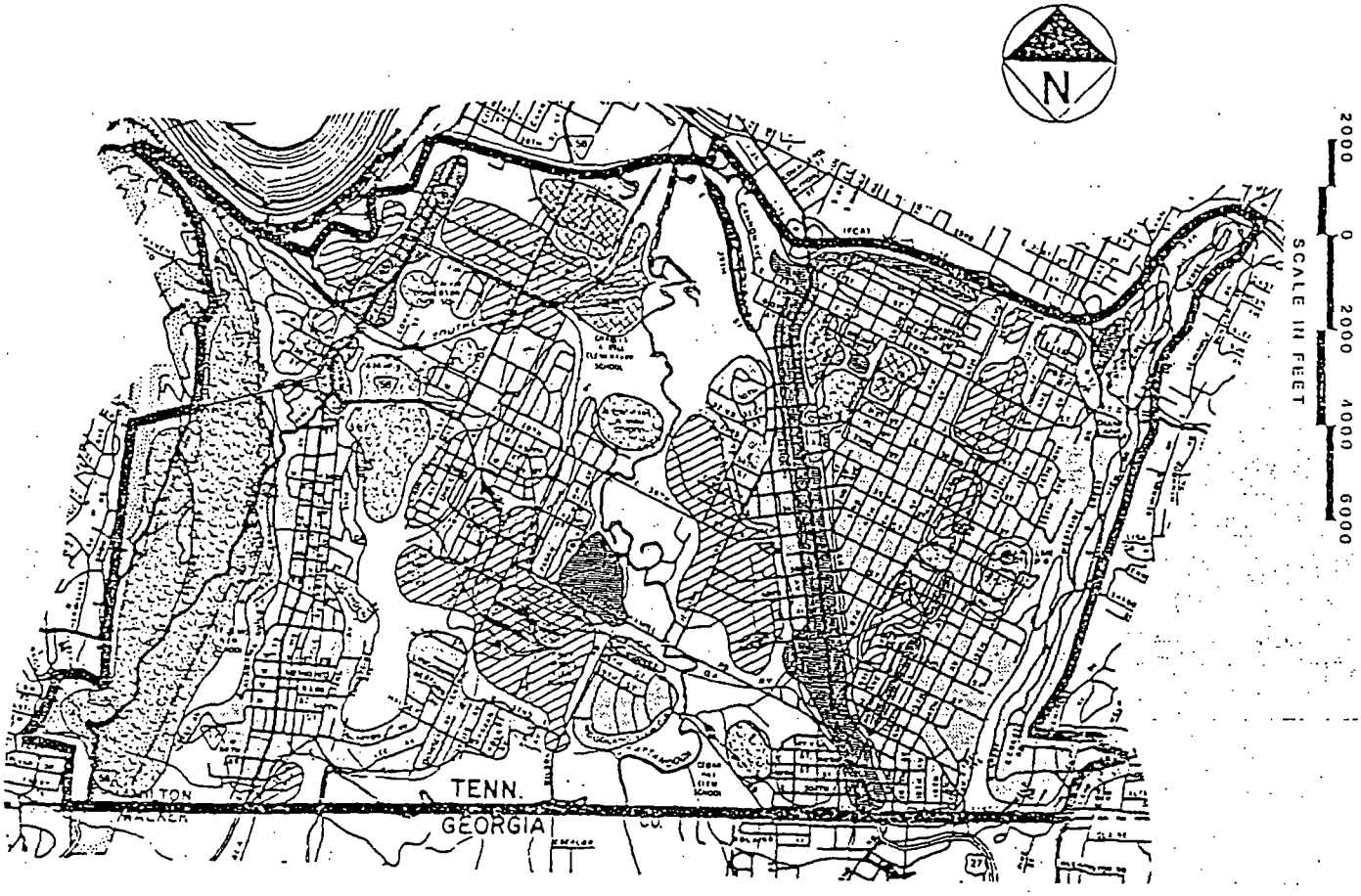


Legend :

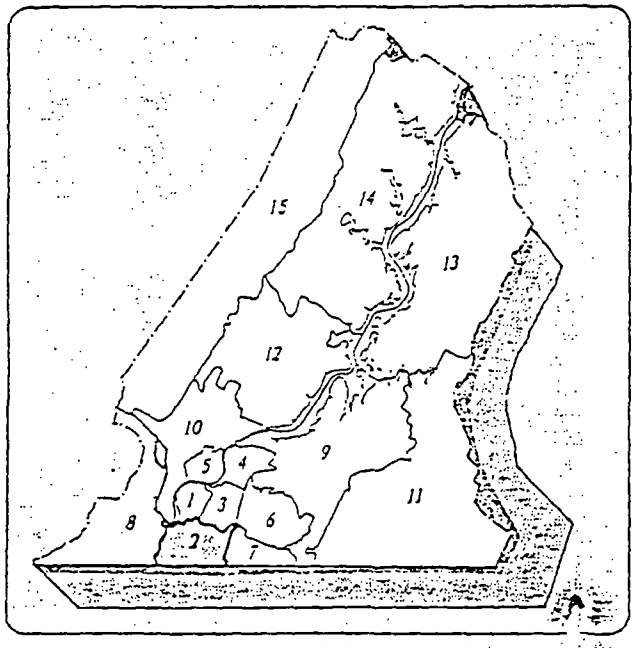
--- CENSUS TRACT BOUNDARIES

PLANNING DISTRICT 2

EXISTING LAND USE



SOUTH CENTER CITY

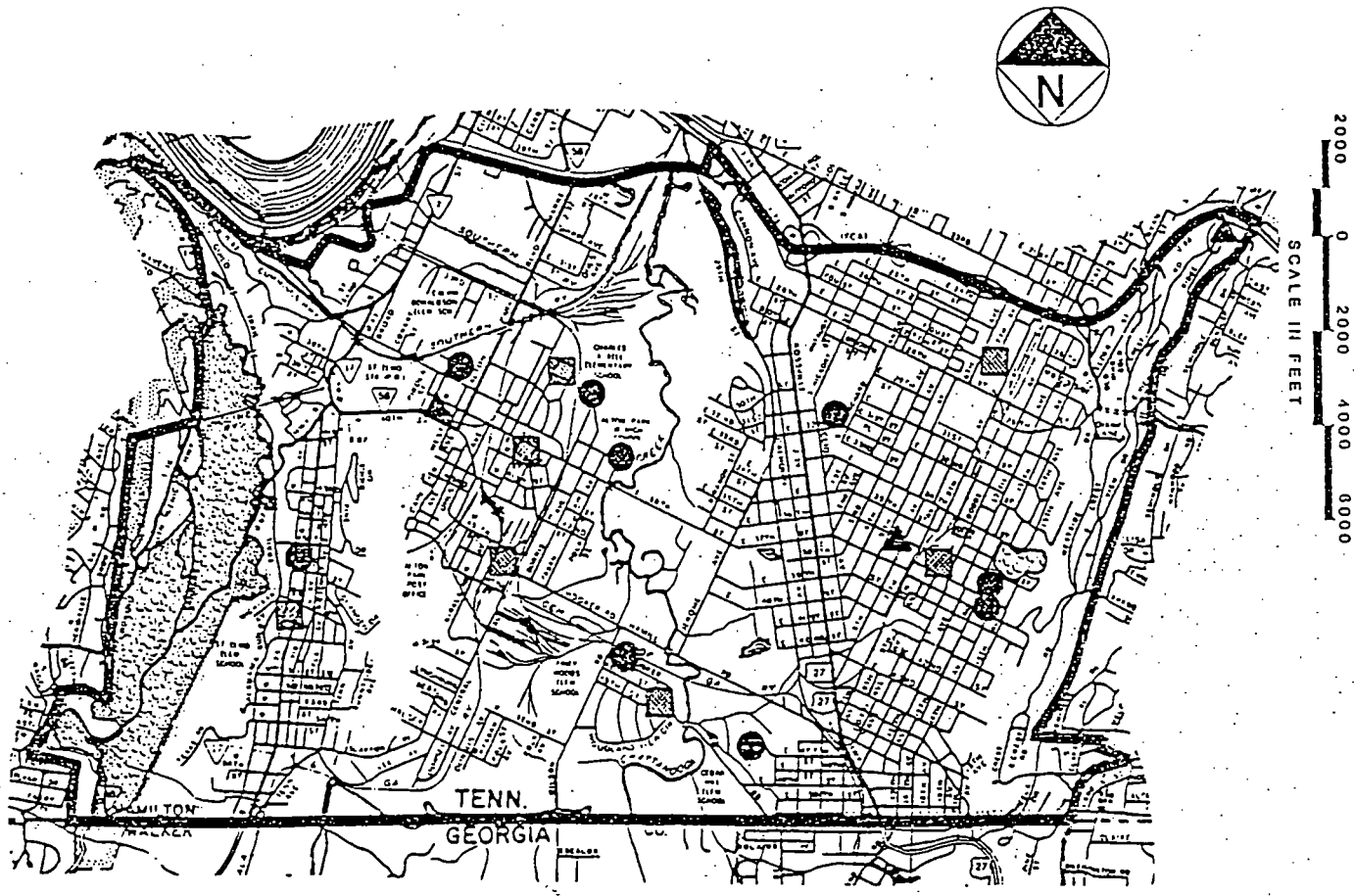


Legend :

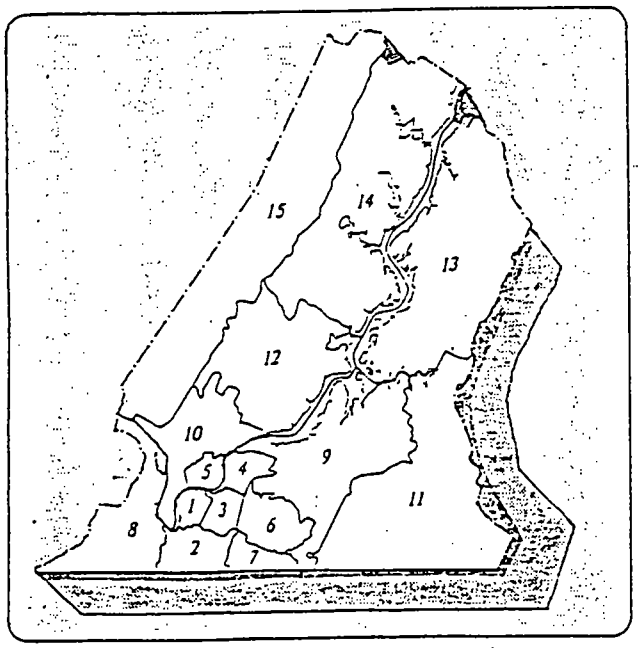
- RESIDENTIAL
- COMMERCIAL
- INDUSTRIAL
- PUBLIC/SEMI-PUBLIC
- TRANSPORTATION
- VACANT

PLANNING DISTRICT 2

PUBLIC FACILITIES



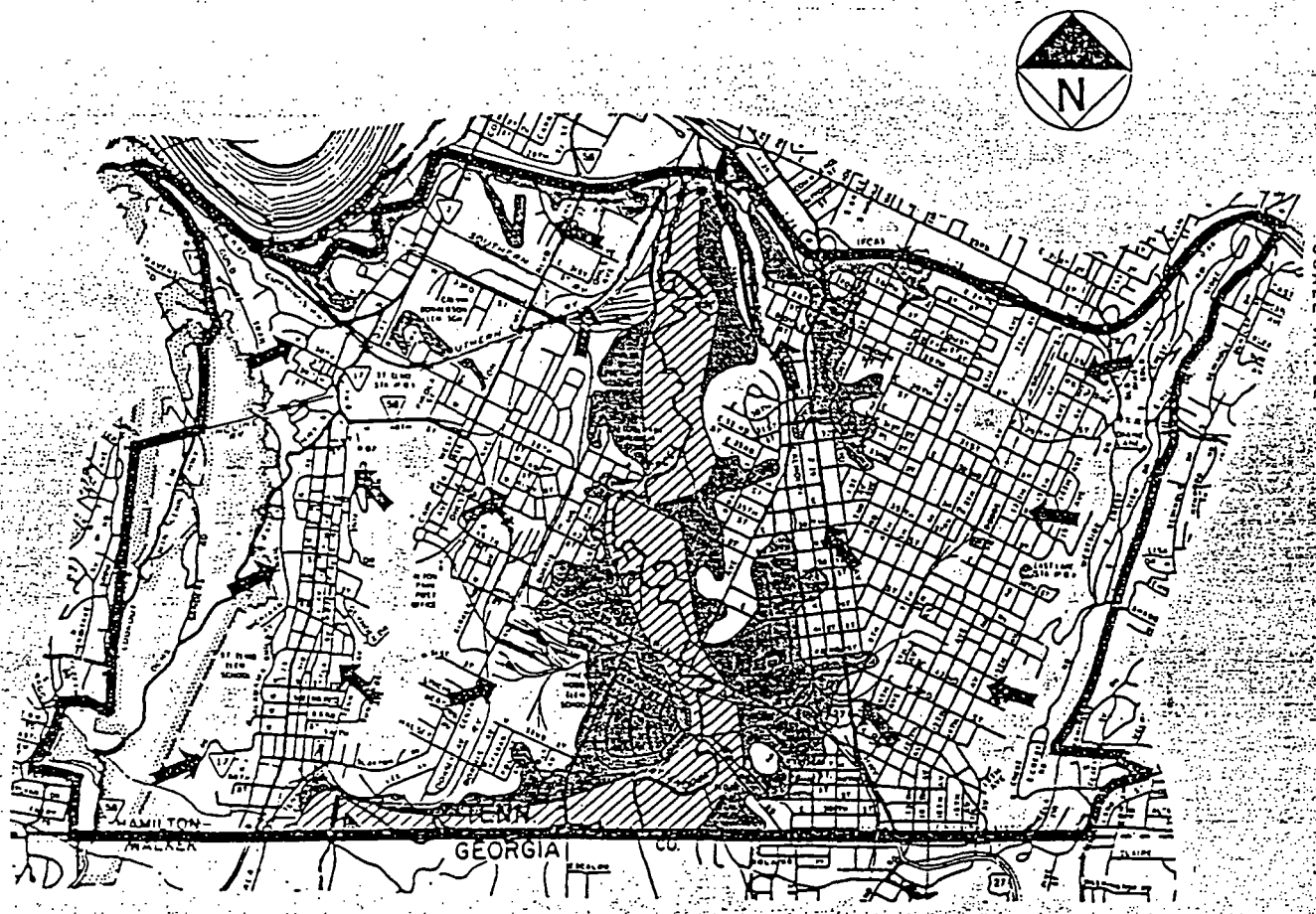
SOUTH CENTER CITY



Legend :

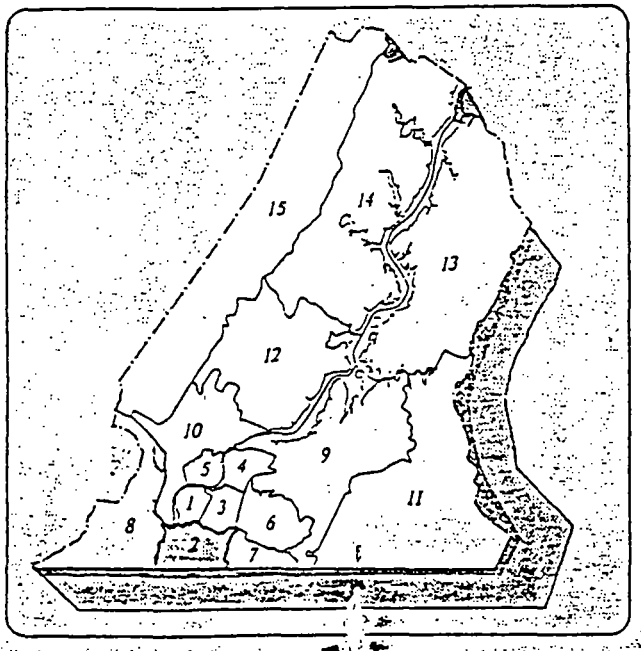
- SCHOOLS
- FIRE STATIONS
- RECREACTION CENTERS
- PARKS

DRAINAGE AND FLOODABLE AREAS



PLANNING DISTRICT 2

SOUTH CENTER CITY



Legend :

- FLOW OF DRAINAGE
- FLOOD HAZARD AREA (100 year flood)
- FLOODWAY

Site No. TND 980844229

Ref. No. 13

TENNESSEE WILDLIFE RESOURCES AGENCY

ELLINGTON AGRICULTURAL CENTER
P. O. BOX 40747
NASHVILLE, TENNESSEE 37204

December 19, 1985

Mr. Gordon Caruthers
Solid Waste Management Division
Department of Health & Environment
701 Broadway
Nashville, TN 37219

Dear Gordon:

In response to your call of December 19, I am happy to enclose descriptions of critical wildlife habitat of Tennessee, as designated by the U.S. Fish and Wildlife Service.

Please advise if I can be of further assistance.

Sincerely,

TENNESSEE WILDLIFE RESOURCES AGENCY

Robert M. Hatcher, Coordinator
Nongame/Endangered Species

RMH/ch
enc.

ENDANGERED AND THREATENED WILDLIFE AND PLANTS

JULY 20, 1984

50 CFR 17.11 and 17.12

Department of the Interior
U.S. Fish and Wildlife Service

Site No. TND 980844229

Ref. No. 14

soil survey of
Hamilton County, Tennessee

United States Department of Agriculture
Soil Conservation Service
in cooperation with
Tennessee Agricultural Experiment Station

Enter program execution mode: B (batch) or I (interactive)

GEMS> I

HOOKER ROAD BRIDGE DUMP

LATITUDE 34:59:23 LONGITUDE 85:18: 3 1980 POPULATION

KM	0.00-.400	.400-.810	.810-1.60	1.60-3.20	3.20-4.80	4.80-6	SECTOR
KM	0.00-.400	.400-.810	.810-1.60	1.60-3.20	3.20-4.80	4.80-6.40	TOTALS
	Alt-Z FOR HELP	VT102	FDX	2400 E71	LOG CLOSED	PRINT OFF	ON-LINE
S 1	0	0	352	2299	5530	13722	21903
S 2	0	693	1090	6897	8471	14442	31593
S 3	0	0	647	1204	7939	8892	18682
S 4	0	73	0	3862	1032	5894	10861
S 5	0	0	0	721	564	1371	2656
S 6	0	0	2454	6051	2931	990	12426
RING TOTALS	0	766	4543	21034	26467	45311	98121

press RETURN to continue

Alt-Z FOR HELP | VT102 | FDX | 2400 E71 | LOG CLOSED | PRINT OFF | ON-LINE

PWS ID # SURV DATE WATER SYSTEM NAME MAIL BOTTLES TO
POPL TELEPHONE

0000046 02/18/91 BELVIDERE RURAL UTILITY D Mr. Danny Syler
Belvidere Rural Utility D
1,048 (615)967-7265 P.O. BOX 67 P.O. Box 67
BELVIDERE TN 37306 Belvidere TN 37306
OF SERVICES - 365

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-07-20	086-11-32

TREATMENT
PART. REMOVAL 1 SOFTENING DISINFECTION 401

0003709 07/27/89 CAMP VESPER POINT MR. HERBERT RALSTON
50 (615)332-4025 3216 LEE PIKE 3216 LEE PIKE
SODDY TN 37379 SODDY TN 37379
OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-21-15	085-03-20

TREATMENT
PART. REMOVAL 1 SOFTENING DISINFECTION 421

0000101 01/03/91 CENTER GROVE-WINCHESTER S Mr. A. M. Dement, Co
Center Grove-Winchester S
4,093 (615)967-3939 ROUTE 1, BOX 452 Route #1
ESTILL SPRINGS TN 37330 Estill Springs TN 37330
OF SERVICES - 1,426

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
NEW SPRING	P	035-16-33	086-12-13

TREATMENT
PRECHLORINATION 403 CORROSION CONTROL MANGANESE REMOVAL
PART. REMOVAL 1 SOFTENING DISINFECTION 401

PWS ID # / POPL	SURV DATE / TELEPHONE	WATER SYSTEM NAME	MAIL BOTTLES TO
0003728	08/02/91	CHURCH OF GOD CAMP	LINDEL BROWN
100	(615)886-4253	4400 OLD HASSLER RD.	4400 OLD HASSLER ROA
		SIGNAL MTN TN 37377	SIGNAL MOUNTAI TN 37377

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-10-00	085-20-30

TREATMENT

PART. REMOVAL 1		SOFTENING		DISINFECTION	421

0000146	06/06/91	COWAN BOARD OF PUBLIC UTI		Mr. Jimmy Johnson	
				Cowan Board of Public Uti	
2,092	(615)967-7623	PO BOX 145		Box 59	
		COWAN	TN 37318	Cowan	TN 37318

OF SERVICES - 729

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
1 SPRING	P	035-09-27	086-00-58

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL	443	MANGANESE REMOVAL	
PART. REMOVAL 1	344	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL		UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL		FLUORIDE	380

0000187	01/02/91	DECHERD WATER DEPT.		Mr. J. Millard Shell	
				Town of Decherd	
3,341	(615)967-5301	PO BOX 488		P.O. BOX 488	
		DECHERD	TN 37324	Decherd	TN 37324

OF SERVICES - 1,175

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
2 WELLS	P	035-12-42	086-04-45

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	401
PART. REMOVAL 3	IRON REMOVAL	FLUORIDE	380

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0004126 05/31/91 DIXIE YARNS INC — BETTYE CLARK
BETTYE CLARK
600 (615)877-0244 PO BOX 751 — PO BOX 751
CHATTANOOGA TN 37401 — CHATTANOOGA TN 37401

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-06-00	085-16-25
	TREATMENT		
PART. REMOVAL 1	SOFTENING	DISINFECTION	421

0000219 04/29/91 EASTSIDE UTILITY DISTRICT — Mr. W. Camp Turner,
Eastside Utility District
28,862 (615)892-2890 PO BOX 22037 — 7206 Lee Hwy., P.O.
CHATTANOOGA TN 37422 — Chattanooga TN 37422

OF SERVICES - 10,650

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-07-50	085-04-57
	TREATMENT		
PART. REMOVAL 1	SOFTENING	DISINFECTION	401
TN-AMERICAN	I	- -	- -
	TREATMENT		
PART. REMOVAL 2	TASTE & ODOR CONTROL	UNTREATED	000

0000917 10/25/90 EASTSIDE-WINDSTONE W.S. — Mr. Don Stafford
C/O EASTSIDE UTILITY DIST — Eastside - Windstone
68 (615)892-2890 P.O. BOX 22037 — % Eastside U.D. P.O.
CHATTANOOGA TN 37422 — Chattanooga TN 37422

OF SERVICES - 25

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
CATOOSA UD(GA)	P	- -	- -
	TREATMENT		
PART. REMOVAL 2	TASTE & ODOR CONTROL	UNTREATED	000

PWS ID # / POPL	SURV DATE / TELEPHONE	WATER SYSTEM NAME	MAIL BOTTLES TO
0000232	01/03/91	ESTILL SPRINGS WATER DEPA	The Hon. John Gaul, Town of Estill Springs
3,154	(615)649-5188	P O DRAWER 100 ESTILL SPNGS TN 37330	P. O. Drawer 100 Estill Springs TN 37330

OF SERVICES - 1,061

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
SPRING	P	035-16-40	086-08-00

TREATMENT					
PART. REMOVAL 1	SOFTENING	500	DISINFECTION	401
PART. REMOVAL 3	IRON REMOVAL		FLUORIDE	380

0004176	06/06/89	GRASSHOPPER CREEK P.U.A.-	DAVE SMITH
100	(615)751-2088	P.O. BOX 606 ATHENS TN 37303	PO BOX 606 ATHENS TN 37303

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0401 END - 0930

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-20-39	085-02-24

TREATMENT			
PART. REMOVAL 1	SOFTENING	DISINFECTION	421

0003737	05/25/91	GREEN GABLES MOTEL	GREEN GABLES MOTEL
25	(615)332-1172	1193 DAYTON PIKE SODDY DAISY TN 37379	11933 DAYTON PIKE SODDY DAISY TN 37379

OF SERVICES - 16

COUNTY - HAMILTON (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	- -	- -

TREATMENT			
PART. REMOVAL 1	SOFTENING	DISINFECTION	421

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0000906 07/30/90 GRINDSTONE ESTATES MHP

813 (615)396-2886 42 GRINDSTONE ESTATES
OOLTAWAH TN 37363

Mr. Andrew Chastain
Grindstone Estate Water S
42 Grindstone Estate
Ooltewah TN 37363

OF SERVICES - 300

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-03-52	085-01-44

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	421

0000303 10/30/90 HIXSON UTILITY DISTRICT

48,368 (615)877-3513 5005 AUSTIN ROAD
HIXSON TN 37343

Mr. Kenneth W. Rich
Hixson Utility District
5005 Austin Road
Hixson TN 37343

OF SERVICES - 17,848

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
CAVE SPRINGS	P	035-11-48	085-13-53

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	401
PART. REMOVAL 3	IRON REMOVAL	FLUORIDE	380

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
ROCK QUARRY	E	035-09-28	085-12-59

TREATMENT

PART. REMOVAL 1	345	SOFTENING	DISINFECTION	401

ENTRY POINT	ID	CD
SPRING	A	C
ENTRY POINT	ID	CD
QUARRY	B	B

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0000317 02/19/91 HUNTLAND WATER SYSTEM

1,243 (615)469-7702 P.O. DRAWER H
HUNTLAND TN 37345

The Hon. James Damro
Town of Huntland
P.O. Drawer H
Huntland TN 37345

OF SERVICES - 433

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL NO. 1	P	035-03-47	086-14-52
	TREATMENT		
PART. REMOVAL 1	SOFTENING	DISINFECTION	401
WELL NO. 2	P	035-03-15	086-16-15
	TREATMENT		
PART. REMOVAL 1	SOFTENING	DISINFECTION	401
WELL NO. 3	E	035-02-55	086-16-22
	TREATMENT		
PART. REMOVAL 1	SOFTENING	DISINFECTION	401

ENTRY POINT	ID	CD
WELL #1	A	C
ENTRY POINT	ID	CD
WELL #2	B	C
ENTRY POINT	ID	CD
WELL #3	C	D

0000168 02/28/91 MOWBRAY MOUNTAIN UTILITY

1,214 (615)332-4581 1321 MONTLAKE RD.
SODDY-DAISY TN 37379

Mr. L. F. Johnson, P
Mowbray Mountain Utility
1321 Montlake Road
Soddy-Daisy TN 37379

OF SERVICES - 448

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
SODDY-DAISY UD	P	- -	- -
	TREATMENT		
PART. REMOVAL 2	TASTE & ODOR CONTROL	UNTREATED	000

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0003742 01/13/88 MT VERNON BAPTIST CHURCH MELVIN R HOLLAND
100 (615)775-4296 BOX 65 COVE ROAD
SALE CREEK TN 37373 DANTON TN 37321

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-24-55	085-04-09

TREATMENT

PART. REMOVAL 1 SOFTENING DISINFECTION 421

0001372 07/30/85 PLEASANT RIDGE MISSIONARY REV. JAKE STRICKLAND
70 (615)967-6850 RT. 2, BOX 2080 RT 2, BOX 2080
WINCHESTER TN 37398 WINCHESTER TN 37398

OF SERVICES - 1

COUNTY - FRANKLIN (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-05-20	085-17-40

TREATMENT

PART. REMOVAL 2 TASTE & ODOR CONTROL UNTREATED 000

0004428 07/20/90 RIVER INN ROY & BETTY CRONON
100 (615)886-5149 BOX 370 SUCK CREEK MTN RD BOX 370 SUCK CREEK M
CHATTANOOGA TN 37405 CHATTANOOGA TN 37405

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0101 END - 1231

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
SPRING	P	035-07-08	085-22-59

TREATMENT

PART. REMOVAL 1 SOFTENING DISINFECTION 421

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0004177 06/06/89 SALE CREEK P.U.A.-TVA DAVE SMITH
40 (615)751-2088 P.O. BOX 606 PO BOX 606
ATHENS TN 37303 ATHENS TN 37303

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0401 END - 0930

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-21-46	084-07-48

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	421

0000605 09/10/91 SALE CREEK UTILITY DISTRI Mr. Jim Reavely, Chm
Sale Creek Utility Distri
1,143 (615)332-1646 P.O. BOX 575 P.O. BOX 575
SODDY-DAISY TN 37379 Sale Creek TN 37373

OF SERVICES - 457

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
2 WELLS	P	035-22-38	085-06-34

TREATMENT

PRECHLORINATION		CORROSION CONTROL	447	MANGANESE REMOVAL	
PART. REMOVAL 1	344	SOFTENING		DISINFECTION	401
PART. REMOVAL 3		IRON REMOVAL		FLUORIDE	380

0000613 10/18/90 SAVANNAH VALLEY U. D. Mr. Bobby Scott
BOBBY SCOTT Savannah Valley Utility D
8,401 (615)344-8440 7804 SMITH ROAD 7804 Smith Road
OOLTEWAH TN 37363 Ooltewah TN 37363

OF SERVICES - 3,100

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELLS	P	035-14-24	085-00-38

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	401
PART. REMOVAL 3	IRON REMOVAL	FLUORIDE	380

PWS ID # / POPL	SURV DATE / TELEPHONE	WATER SYSTEM NAME	MAIL BOTTLES TO
0000623	06/13/91	SEWANEE UTILITY DISTRICT	Mr. John Hall, Manag Sewanee Utility District
4,492	(615)598-5611	P O BOX 211 SEWANEE TN 37375	P.O. BOX 211 Sewanee TN 37375

OF SERVICES - 1,164

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
LAKE ODONNELL	P	035-12-00	085-54-00

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL	443	MANGANESE REMOVAL	
PART. REMOVAL 1	345	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL	125	UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL	147	FLUORIDE	380

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
LAKE JACKSON	I	035-11-00	085-52-30

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL	443	MANGANESE REMOVAL	
PART. REMOVAL 1	345	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL	125	UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL	147	FLUORIDE	380

0000634	02/28/91	SIGNAL MOUNTAIN WATER SYS	Mr. Hershall Dick, S Signal Mountain Water Sys
7,450	(615)886-2177	793 RIDGEWAY AVE. SIGNAL MOUNTAIN TN 37377	793 Ridgeway Avenue Signal Mountai TN 37377

OF SERVICES - 2,749

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
TENN AMERICAN	P	- -	- -

TREATMENT

PART. REMOVAL 2	TASTE & ODOR CONTROL	UNTREATED	000

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0004175 06/06/89 SKULL ISLAND P.U.A.-TVA DAVE SMITH
80 (615)751-2088 P.O. BOX 606 PO BOX 606
ATHENS TN 37303 ATHENS TN 37303

OF SERVICES - 1

COUNTY - HAMILTON (SEASON) BEGIN - 0401 END - 0930

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	034-14-34	085-04-21

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	421

0000169 07/27/90 SODDY-DAISY-FALLING WATER Mr. Wayne P. Tate
Soddy-Daisy Falling Water
9,742 (615)332-2427 P.O. BOX 575 P.O. Box 575, 9863 D
SODDY-DAISY TN 37379 Soddy-Daisy TN 37379

OF SERVICES - 3,595

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
SODDY CK EMB	P	035-17-01	085-09-19

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL		MANGANESE REMOVAL	
PART. REMOVAL 1	345	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL	125	UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL		FLUORIDE	380

SODDY WELL #1	P	035-16-58	085-09-14

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL		MANGANESE REMOVAL	
PART. REMOVAL 1	344	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL	125	UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL		FLUORIDE	380

FALL WAT WELL#2	E	035-11-43	085-15-53

TREATMENT

PART. REMOVAL 1	SOFTENING	DISINFECTION	401

ENTRY POINT	ID	CD
FILTER PLANT	A	A
ENTRY POINT	ID	CD
FALLING WAT WEL	B	D

PWS ID #	SURV DATE	WATER SYSTEM NAME	MAIL BOTTLES TO
POPL	TELEPHONE		

0000107 05/16/90 TENN-AMERICAN WATER CO.
164,232 (615)756-7600 1101 BROAD STREET
CHATTANOOGA TN 37402

Mr. David A. Snyder
Tennessee American Water
1101 Broad Street
Chattanooga TN 37402

OF SERVICES - 60,602

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
TENN RIVER	P	035-03-12	085-17-21

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL	443	MANGANESE REMOVAL	
PART. REMOVAL 1	345	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL	121	UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL		FLUORIDE	380

0000037 07/09/91 UNION FORK-BAKEWELL U.D.
2,401 (615)332-9733 RETRO HUGHES ROAD
BAKEWELL TN 37304

Mr. C. B. Bowman
Union Fork-Bakewell Util.
Retio Hudges Road
Bakewell TN 37304

OF SERVICES - 886

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
3 WELLS	P	035-20-20	085-07-44

TREATMENT

PRECHLORINATION		CORROSION CONTROL	443	MANGANESE REMOVAL	
PART. REMOVAL 1		SOFTENING		DISINFECTION	401
PART. REMOVAL 3		IRON REMOVAL		FLUORIDE	380

0000635 08/02/91 WALDEN RIDGE UTILITY DIST
5,085 (615)886-2683 2412 TAFT HIGHWAY
SIGNAL MOUNTAIN TN 37377

Mr. David J. Fulton,
Walden Ridge Utility Dist
2412 Taft Highway
Signal Mountai TN 37377

OF SERVICES - 2,150

COUNTY - HAMILTON (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
WELL	P	035-11-28	085-16-02

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL	443	MANGANESE REMOVAL	
PART. REMOVAL 1	344	SOFTENING		DISINFECTION	401
PART. REMOVAL 3		IRON REMOVAL		FLUORIDE	380

PWS ID # / POPL	SURV DATE / TELEPHONE	WATER SYSTEM NAME	MAIL BOTTLES TO
0000754	08/09/90	WINCHESTER WATER SYSTEM	Mr. Jim Vann Winchester Water System
14,597	(615)967-2238	219 2ND AVENUE NW WINCHESTER TN 37398	219 Second Avenue, N Winchester TN 37398

OF SERVICES - 5,086

COUNTY - FRANKLIN (SEASON) BEGIN - END -

SOURCE NAME	AVAIL	LATITUDE	LONGITUDE
TIMS FORD LAKE	P	035-12-57	086-09-23

TREATMENT

PRECHLORINATION	403	CORROSION CONTROL		MANGANESE REMOVAL	
PART. REMOVAL 1	345	SOFTENING		DISINFECTION	401
PART. REMOVAL 2	240	TASTE & ODOR CONTROL		UNTREATED	
PART. REMOVAL 3	660	IRON REMOVAL	147	FLUORIDE	380

TOTAL NUMBER OF SYSTEMS - 30