

# FLOOD INSURANCE STUDY

## FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 3



## ROBERTSON COUNTY, TENNESSEE

### AND INCORPORATED AREAS

COMMUNITY NAME	COMMUNITY NUMBER
ADAMS, CITY OF	470159
CEDAR HILL, TOWN OF*	470464
COOPERTOWN, TOWN OF	470423
CROSS PLAINS, TOWN OF	470160
GREENBRIER, CITY OF	470161
ORLINDA, TOWN OF	470465
RIDGETOP, CITY OF	470162
ROBERTSON COUNTY, UNINCORPORATED AREAS	470158
SPRINGFIELD, CITY OF	470163

\* No Special Flood Hazard Areas Identified



# FEMA

**REVISED:**

**FEBRUARY 26, 2021**

FLOOD INSURANCE STUDY NUMBER  
47147CV002B

Version Number 2.4.3.6

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**Exhibit 1**

Flood Profiles	<u>Panel</u>
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**Published Separately**

Flood Insurance Rate Map (FIRM)

**Table 23: Floodway Data**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.09	106 <sup>2</sup>	1,005	6.0	562.5	560.6 <sup>3</sup>	561.6 <sup>3</sup>	1.0
B	0.14	104	1,286	4.7	562.5	561.5 <sup>3</sup>	562.5	1.0
C	0.35	93	807	7.4	563.5	563.5	564.3	1.0
D	0.38	89	862	7.0	564.4	564.4	565.4	1.0
E	0.68	114	997	6.0	570.1	570.1	571.0	0.9
F	1.37	81	736	8.2	581.2	581.2	582.2	1.0
G	1.63	98	1,072	5.6	587.1	587.1	588.1	1.0
H	1.66	106	1,215	4.9	588.1	588.1	589.0	0.9
I	1.73	56	661	9.1	589.5	589.5	590.4	0.9
J	2.07	132	1,290	4.7	594.7	594.7	595.6	0.9
K	2.10	107	786	7.6	594.7	594.7	595.6	0.9
L	2.43	197	1,252	3.6	600.1	600.1	601.1	1.0
M	2.48	175	1,155	3.9	600.6	600.6	601.6	1.0
N	2.68	222	887	5.0	605.6	605.6	606.6	1.0
O	2.98	202	1,238	3.6	610.7	610.7	611.6	0.9
P	3.25	311	2	2.9	614.7	614.7	615.7	1.0
Q	3.58	371	1,373	3.2	620.1	620.1	621.0	0.9

<sup>1</sup> Miles above confluence with Sulphur Creek

<sup>2</sup> Includes Joint Probability Analysis

<sup>3</sup> Elevation computed without consideration of backwater effects

**TABLE 23**

**FEDERAL EMERGENCY MANAGEMENT AGENCY  
ROBERTSON COUNTY, TENNESSEE  
AND INCORPORATED AREAS**

**FLOODWAY DATA**

**FLOODING SOURCE: BEAVER DAM CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.23	86	546	7.3	534.2	534.2	535.2	1.0
B	0.44	43	402	10.0	541.8	541.8	542.7	0.9
C	0.58	53	373	10.7	546.0	546.0	546.4	0.4
D	0.85	170	953	4.2	555.2	555.2	555.9	0.7
E	1.05	112	543	7.4	560.9	560.9	561.3	0.4

<sup>1</sup> Miles above confluence with Carr Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: BROWNS FORK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.95	243	1,785	3.5	440.3	440.3	441.3	1.0
B	1.78	432	1,674	3.8	462.4	462.4	463.4	1.0
C	1.83	478	2,395	2.6	463.5	463.5	464.5	1.0
D	1.92	156	880	6.0	466.1	466.1	467.1	1.0
E	2.22	97	625	8.5	474.0	474.0	474.1	0.1
F	2.41	72	608	8.7	481.5	481.5	482.5	1.0
G	2.85	155	1,124	4.7	496.8	496.8	497.8	1.0
H	3.00	110	691	7.7	500.7	500.7	501.3	0.6
I	3.13	77	600	8.8	506.9	506.9	507.0	0.1
J	3.33	112	893	5.9	513.1	513.1	514.0	0.9
K	3.60	76	673	7.9	520.0	520.0	520.5	0.5
L	3.85	114	900	5.9	527.0	527.0	527.6	0.6
M	4.30	128	1,131	4.7	537.5	537.5	538.3	0.8
N	4.60	125	873	3.9	542.7	542.7	543.4	0.7
O	4.85	133	721	4.8	547.3	547.3	548.2	0.9
P	4.99	79	580	5.9	551.5	551.5	552.0	0.5
Q	5.12	82	632	5.4	554.3	554.3	555.2	0.9
R	5.39	101	587	5.8	561.7	561.7	562.7	1.0
S	5.85	120	602	5.7	573.4	573.4	574.1	0.7
T	5.94	198	1,439	2.4	578.4	578.4	579.0	0.6
U	6.20	125	685	5.0	582.4	582.4	583.2	0.8
V	6.62	123	821	4.2	592.8	592.8	593.7	0.9

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: BRUSH CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	6.97	159	939	3.7	600.9	600.9	601.9	1.0
X	7.50	189	1,201	2.9	615.7	615.7	616.7	1.0
Y	7.75	69	423	8.1	622.4	622.4	623.2	0.8
Z	8.03	103	726	4.7	630.4	630.4	631.3	0.9
AA	8.51	117	739	4.6	646.9	646.9	647.8	0.9
BB	8.85	169	1,062	3.2	657.0	657.0	658.0	1.0

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: BRUSH CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.17	182 <sup>2</sup>	1,965	5.9	511.1	509.9 <sup>3</sup>	510.9 <sup>3</sup>	1.0
B	0.38	205 <sup>2</sup>	2,011	5.8	512.4	512.4	513.4	1.0
C	0.65	342 <sup>2</sup>	3,291	3.5	516.1	516.1	517.0	1.0
D	1.27	315 <sup>2</sup>	3,267	3.6	521.9	521.9	522.8	0.9
E	1.46	456 <sup>2</sup>	3,372	3.4	523.2	523.2	524.0	0.8
F	1.89	386 <sup>2</sup>	3,165	3.7	526.2	526.2	527.1	0.9
G	2.49	210 <sup>2</sup>	2,442	4.7	531.6	531.6	532.3	0.7
H	2.76	236 <sup>2</sup>	1,815	6.4	535.5	535.5	536.3	0.8
I	3.20	567 <sup>2</sup>	4,454	2.6	540.4	540.4	541.2	0.8
J	3.75	432 <sup>2</sup>	2,091	5.5	545.5	545.5	546.2	0.7
K	3.85	435 <sup>2</sup>	2,356	4.9	547.4	547.4	548.2	0.8
L	4.47	458 <sup>2</sup>	3,055	3.8	555.3	555.3	556.0	0.7
M	4.73	382 <sup>2</sup>	2,315	5.0	559.5	559.5	560.3	0.8
N	5.19	157 <sup>2</sup>	1,800	4.1	568.7	568.7	569.5	0.8
O	5.67	218 <sup>2</sup>	1,831	4.0	573.3	573.3	574.3	1.0
P	6.02	266 <sup>2</sup>	1,483	4.9	578.0	578.0	579.0	1.0
Q	6.60	288 <sup>2</sup>	1,486	3.9	588.7	588.7	589.6	0.9
R	6.95	243 <sup>2</sup>	1,132	5.1	593.0	593.0	593.7	0.7
S	7.37	328 <sup>2</sup>	1,702	3.4	600.8	600.8	601.6	0.8
T	7.84	218	1,030	5.6	609.5	609.5	610.2	0.7
U	8.35	317	1,722	3.4	619.5	619.5	620.4	0.9
V	8.65	216	1,234	4.7	624.5	624.5	625.3	0.8

<sup>1</sup> Miles above confluence with Sulphur Fork

<sup>2</sup> Floodway extends beyond county limits

<sup>3</sup> Elevation computed without consideration of backwater affects

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: CARR CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	9.00	140	914	6.3	632.8	632.8	633.6	0.8
X	9.37	258	1,227	3.0	642.5	642.5	642.9	0.4
Y	9.86	280	1,114	3.3	648.8	648.8	649.8	1.0
Z	10.22	54	385	9.6	658.9	658.9	659.3	0.4
AA	10.58	175	885	4.2	669.6	669.6	670.5	0.9
AB	11.18	80	473	7.8	684.7	684.7	685.3	0.6

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: CARR CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.56	12	111	14.3	692.3	692.3	692.3	0.0
B	0.60	129	910	1.7	696.1	696.1	696.1	0.0
C	0.95	57	280	5.6	708.5	708.5	709.4	0.9
D	1.14	65	290	5.4	718.9	718.9	719.7	0.8
E	1.47	85	292	5.4	733.8	733.8	734.4	0.6
F	1.70	60	274	5.8	744.8	744.8	745.5	0.7
G	1.93	41	227	7.0	753.3	753.3	754.1	0.8

<sup>1</sup> Miles above confluence with Empson Branch

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: FREY BRANCH**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.04	122	544	4.7	485.1	483.4 <sup>2</sup>	484.4 <sup>2</sup>	1.0
B	0.10	194	989	2.6	486.4	486.4	487.4	1.0
C	0.14	193	872	2.9	486.6	486.6	487.5	0.9
D	0.41	111	427	6.0	497.2	497.2	497.7	0.5
E	0.85	182	785	3.2	514.1	514.1	515.0	0.9
F	1.35	120	436	4.0	533.6	533.6	534.5	0.9
G	1.70	59	229	4.1	545.5	545.5	547.4	0.9

<sup>1</sup> Miles above confluence with Millers Creek

<sup>2</sup> Elevation computed without consideration of backwater effects

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: HONEY RUN CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.32	102	864	5.0	619.8	619.8	620.8	1.0
B	0.73	266	1,182	3.2	629.1	629.1	629.7	0.6
C	1.23	121	620	6.1	638.3	638.3	639.1	0.8
D	1.56	146	756	5.0	645.9	645.9	646.8	0.9
E	2.00	1.69	441	6.8	657.8	657.8	658.6	0.8
F	2.01	125	578	5.2	658.4	658.4	659.4	1.0
G	2.08	238	1,327	2.3	659.8	659.8	660.6	0.8
H	2.55	131	689	4.4	668.6	668.6	669.5	0.9

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: LONG BRANCH**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.05	141	1,573	5.2	461.9	461.9	462.9	1.0
B	0.13	253	1,947	4.2	468.1	468.1	469.0	0.9
C	0.14	285	3,179	2.6	469.5	469.5	470.5	1.0
D	0.20	249	2,071	4.0	472.1	472.1	473.1	1.0
E	1.40	326	2,673	3.1	476.5	476.5	477.3	0.8
F	1.82	424	3,205	2.6	480.1	480.1	481.0	0.9
G	2.04	352	2,171	3.5	482.7	482.7	483.5	0.8
H	2.18	371	1,949	3.9	485.0	485.0	485.7	0.7
I	2.26	219	1,288	5.9	485.9	485.9	486.8	0.9
J	2.62	229	1,978	3.9	494.6	494.6	495.0	0.4
K	3.21	269	1,830	3.4	502.2	502.2	503.2	1.0
L	3.95	211	1,514	4.1	508.0	508.0	508.6	0.6
M	4.16	134	1,243	5.0	521.6	521.6	522.4	0.8
N	4.47	197	1,805	3.4	525.6	525.6	526.5	0.9
O	4.90	214	1,631	3.8	530.7	530.7	531.6	0.9
P	5.17	284	2,234	2.8	534.4	534.4	535.1	0.7
Q	5.63	228	1,306	3.7	539.8	539.8	540.4	0.6
R	5.82	213	947	3.8	546.0	546.0	546.2	0.2
S	5.97	262	1,206	2.9	547.7	547.7	547.9	0.3
T	6.21	159	735	4.8	553.7	553.7	554.4	0.7
U	6.45	178	965	3.7	565.4	565.4	565.9	0.5
V	7.00	70	544	6.5	583.1	583.1	583.8	0.7

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: MILLERS CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
W	7.06	103	715	3.3	584.6	584.6	585.4	0.8
X	7.43	103	400	5.9	592.2	592.2	593.0	0.8
Y	7.70	55	300	3.5	604.3	604.3	605.0	0.7
Z	7.95	26	126	8.4	611.8	611.8	612.6	0.8

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: MILLERS CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.17	338 <sup>2</sup>	4,768	0.5	691.2	691.2	692.2	1.0
B	0.37	273 <sup>2</sup>	1,004	2.4	691.2	691.2	692.2	1.0
C	0.64	80	328	6.4	694.6	694.6	694.6	1.0
D	0.70	100	250	8.4	696.9	696.9	697.0	0.1
E	0.74	90	306	6.8	699.8	699.8	699.9	0.1
F	0.87	128	532	3.9	702.5	702.5	703.1	0.6
G	0.95	81	402	5.2	703.6	703.6	704.3	0.7
H	1.40	55	211	5.8	719.8	719.8	719.9	0.1
I	1.71	42	142	9.8	732.8	732.8	732.8	0.0

<sup>1</sup> Miles above confluence with Long Branch

<sup>2</sup> Floodway width extends beyond county limits

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: POLE BRIDGE BRANCH**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	82.97	434	4,536	3.1	612.2	612.2	613.0	0.8
B	83.34	253	2,789	5.1	614.4	614.4	615.2	0.8
C	83.55	391	4,046	3.5	616.5	616.5	617.4	0.9
D	83.70	681	7,075	2.0	618.5	618.5	619.4	0.9
E	83.85	523	5,786	2.5	618.9	618.9	619.8	0.9
F	84.20	682	7,149	2.0	619.9	619.9	620.9	1.0
G	84.60	515	4,915	2.9	621.2	621.2	622.1	0.9
H	85.13	482	4,479	2.7	624.4	624.4	625.3	0.9
I	85.51	410	3,958	3.1	626.6	626.6	627.5	0.9
J	85.63	324	3,484	3.5	630.1	630.1	630.7	0.6
K	86.03	322	3,521	3.4	632.1	632.1	633.0	0.9
L	86.28	499	4,790	2.5	633.4	633.4	634.4	1.0
M	86.64	462	3,991	3.0	635.0	635.0	636.0	1.0
N	87.34	695	5,486	1.8	638.9	638.9	639.8	0.9
O	87.78	356	2,540	3.9	641.1	641.1	641.9	0.8
P	88.13	435	3,075	3.2	643.4	643.4	644.4	1.0
Q	88.20	325	3,044	3.2	643.8	643.8	644.7	0.9
R	88.51	48	2,710	3.6	646.3	646.3	647.3	1.0
S	88.75	462	2,886	3.4	649.0	649.0	650.0	1.0
T	88.93	322	2,404	4.1	650.8	650.8	651.7	0.9

<sup>1</sup> Miles above confluence with Cumberland River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: RED RIVER**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.28	100	515	3.0	617.0	617.0	618.0	1.0
B	0.55	135	462	3.3	627.2	627.2	628.0	0.8
C	0.90	28	160	9.5	643.6	643.6	644.3	0.7
D	1.00	36	202	7.5	651.0	651.0	651.8	0.8
E	1.13	31	173	8.8	659.7	659.7	660.4	0.7
F	1.20	45	345	4.4	666.9	666.9	667.5	0.6
G	1.26	33	195	7.8	669.5	669.5	670.1	0.6
H	1.34	103	464	3.3	673.9	673.9	674.8	0.9
I	1.45	47	274	5.6	679.1	679.1	679.9	0.8

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: SAVAGE BRANCH**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,163	285 / 86 <sup>2</sup>	2,541	5.2	571.4	571.4	571.8	0.4
B	3,867	431 / 377 <sup>2</sup>	3,493	3.8	577.8	577.8	578.2	0.4
C	6,342	315 / 103 <sup>2</sup>	2,326	5.7	581.9	581.9	582.9	1.0
D	8,428	562 / 519 <sup>2</sup>	3,911	3.4	588.1	588.1	588.7	0.6
E	10,273	392 / 44 <sup>2</sup>	2,519	5.3	593.7	593.7	594.1	0.4
F	12,271	323 / 254 <sup>2</sup>	2,024	6.1	599.6	599.6	599.8	0.2
G	13,618	378 / 360 <sup>2</sup>	2,715	4.6	604.3	604.3	605.0	0.7
H	16,997	310 / 97 <sup>2</sup>	2,320	3.9	616.5	616.5	616.8	0.3
I	19,117	249 / 44 <sup>2</sup>	1,253	7.2	621.1	621.1	621.4	0.3
J	21,143	191 / 173 <sup>2</sup>	1,151	4.5	630.2	630.2	630.9	0.7
K	23,462	190 / 145 <sup>2</sup>	1,033	5.0	638.4	638.4	638.6	0.2
L	25,995	227 / 188 <sup>2</sup>	907	5.8	646.4	646.4	646.7	0.3
M	31,175	158 / 67 <sup>2</sup>	397	7.0	668.0	668.0	668.0	0.0
N	32,481	64	288	9.6	678.3	678.3	679.0	0.7
O	34,300	144	514	5.4	689.4	689.4	690.1	0.7

<sup>1</sup> Feet above confluence with Sycamore Creek

<sup>2</sup> Total floodway width / width within jurisdiction

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: SOUTH FORK SYCAMORE CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	20.43	370	6,200	3.9	501.7	501.7	502.6	0.9
B	21.55	771	10,056	2.4	505.2	505.2	506.2	1.0
C	22.35	280	3,781	6.4	508.4	508.4	509.3	0.9
D	23.60	356 <sup>2</sup>	3,581	5.9	511.9	511.9	512.9	1.0
E	24.15	312 <sup>2</sup>	4,095	5.2	518.7	518.7	519.6	0.9
F	24.66	487 <sup>2</sup>	7,412	2.9	525.6	525.6	526.6	1.0
G	25.10	232 <sup>2</sup>	4,215	5.0	527.0	527.0	527.9	0.9
H	25.75	369 <sup>2</sup>	5,989	3.5	530.0	530.0	530.9	0.9
I	26.13	256 <sup>2</sup>	3,914	5.4	531.4	531.4	532.4	1.0
J	26.65	480 <sup>2</sup>	7,185	3.0	534.2	534.2	535.1	0.9
K	26.70	159 <sup>2</sup>	2,484	8.5	534.2	534.2	535.2	1.0
L <sup>2</sup>	26.78	230	3,747	5.7	535.6	535.6	536.2	0.6
M <sup>2</sup>	26.91	566	7,006	3.0	536.5	536.5	537.3	0.8
N <sup>2</sup>	27.25	357	4,439	4.8	537.9	537.9	538.8	0.9
O <sup>2</sup>	27.87	727	9,713	2.2	540.9	540.9	541.8	0.9
P <sup>2</sup>	28.97	483	5,951	3.6	544.9	544.9	545.8	0.9
Q <sup>2</sup>	29.25	382	5,195	4.1	548.7	548.7	549.7	1.0
R <sup>2</sup>	29.72	856	9,235	2.3	551.2	551.2	552.2	1.0
S <sup>2</sup>	30.29	331	4,013	5.3	554.2	554.2	555.1	0.9
T <sup>2</sup>	30.76	371	4,480	4.2	558.2	558.2	559.1	0.9
U	32.21	774 <sup>3</sup>	6,475	2.7	563.0	563.0	563.9	0.9
V	32.93	423 <sup>3</sup>	4,343	3.3	567.3	567.3	568.3	1.0
W	33.62	283 <sup>3</sup>	2,692	5.3	570.7	570.7	571.7	1.0
X	34.14	306 <sup>3</sup>	3,052	4.7	576.7	576.7	577.6	0.9

<sup>1</sup> Miles above confluence with Cumberland River

<sup>2</sup> Floodway width extends beyond county limits

<sup>3</sup> Located outside county limits

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: SULPHUR FORK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Y	34.50	276	3,183	4.5	579.9	579.9	580.8	0.9
Z	34.91	597	5,795	2.5	582.3	582.3	583.3	1.0
AA	36.39	413	3,030	4.7	588.6	588.6	589.6	1.0
AB	36.96	802	6,498	2.2	593.8	593.8	594.7	0.9
AC	37.41	449	3,407	4.2	596.2	596.2	597.0	0.8
AD	37.89	748	5,917	2.4	599.8	599.8	600.7	0.9
AE	38.08	530	4,014	2.8	601.8	601.8	602.5	0.7
AF	38.52	589	4,092	2.7	604.6	604.6	605.5	0.9
AG	38.87	539	3,741	3.0	606.9	606.9	607.9	1.0
AH	39.49	417	2,344	4.7	614.1	614.1	615.1	1.0
AI	39.86	562	4,131	2.7	618.3	618.3	619.2	0.9
AJ	40.08	576	4,833	1.5	621.4	621.4	622.1	0.7
AK	40.36	94	820	6.4	622.2	622.2	623.0	0.8
AL	41.05	248	1,466	3.6	633.1	633.1	634.5	1.0
AM	41.63	405	1,639	2.9	642.5	642.5	643.5	0.9
AN	41.79	278	1,543	3.4	646.9	646.9	647.9	1.0
AO	41.90	178	1,284	4.1	649.0	649.0	650.0	1.0
AP	42.29	279	1,536	3.4	658.2	658.2	659.1	0.9
AQ	42.63	248	1,606	3.3	666.2	666.2	667.2	1.0
AR	43.37	142	728	5.0	683.0	683.0	683.9	0.9
AS	44.08	166	747	4.8	707.0	707.0	708.0	0.8
AT	44.56	193	889	1.7	726.5	726.5	727.3	0.8
AU	44.62	72	407	3.7	727.0	727.0	727.8	0.8

<sup>1</sup> Miles above confluence with Cumberland River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: SULPHUR FORK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
K	122,506	1,000 / 350 <sup>2</sup>	13,968	2.4	552.1	552.1	552.3	0.2
L	124,988	520 / 132 <sup>2</sup>	5,530	4.5	553.0	553.0	553.5	0.5
M	127,788	500 / 482 <sup>2</sup>	5,539	4.4	558.8	558.8	559.5	0.7
N	129,927	550 / 164 <sup>2</sup>	5,138	4.8	562.2	562.2	563.0	0.8
O	132,759	365 / 292 <sup>2</sup>	3,289	6.1	569.0	569.0	569.9	0.9

<sup>1</sup> Feet above confluence with Cumberland River

<sup>2</sup> Total floodway width / width within jurisdiction

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: SYCAMORE CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.18	83	507	5.3	609.9	607.1 <sup>2</sup>	608.1	1.0
B	0.48	198	1	2.6	615.5	615.5	616.3	0.8
C	0.77	112	613	4.4	625.2	625.2	625.9	0.7
D	0.82	106	493	5.5	626.8	626.8	627.5	0.7
E	1.00	184	397	2.9	632.0	632.0	632.8	0.8

<sup>1</sup> Miles above confluence with Red River

<sup>2</sup> Elevation computed without consideration of backwater effects

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: UNNAMED TRIBUTARY OF RED RIVER**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.04	121	772	2.9	545.1	545.1	546.1	1.0
B	0.15	92	541	4.2	546.7	546.7	547.7	1.0
C	0.50	118	464	4.9	557.3	557.3	558.1	0.8
D	0.63	29	272	8.3	568.3	568.3	568.3	0.7
E	0.70	66	421	5.4	571.7	571.7	572.1	0.4
F	1.11	55	343	6.6	584.0	584.0	584.5	0.5
G	1.54	45	326	6.9	599.5	599.5	600.4	0.9
H	1.79	44	205	8.4	610.4	610.4	610.6	0.2
I	2.03	79	327	5.3	624.4	624.4	625.1	0.7

<sup>1</sup> Miles above confluence with Millers Creek

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: UNNAMED TRIBUTARY TO MILLERS CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.33	106	1,189	3.1	557.2	557.2	557.8	0.6
B	0.59	88	601	6.1	562.3	562.3	563.3	1.0
C	1.03	432	7,538	0.5	593.8	593.8	594.3	0.5
D	1.23	478	5,216	0.7	593.8	593.8	594.3	0.5
E	1.42	418	2,745	1.3	593.8	593.8	594.3	0.5
F	1.56	175	853	4.1	593.8	593.8	594.3	0.5
G	1.64	179	898	3.9	595.0	595.0	595.8	0.8
H	2.08	124	699	3.9	607.5	607.5	608.4	0.9
I	2.38	39	289	9.4	616.2	616.2	617.1	0.9
J	2.45	83	514	5.3	619.7	619.7	620.7	1.0
K	2.66	58	336	8.1	626.0	626.0	627.0	1.0
L	2.84	78	458	6.0	633.9	633.9	634.1	0.2
M	3.14	43	215	9.5	641.0	641.0	641.3	0.3
N	3.65	34	221	9.3	658.2	658.2	659.2	1.0
O	3.73	28	180	11.4	662.1	662.1	662.9	0.8
P	3.78	113	476	4.3	666.2	666.2	666.2	0.0
Q	4.20	119	402	5.4	680.7	680.7	680.7	0.0
R	4.46	119	402	4.1	688.2	688.2	689.2	1.0

<sup>1</sup> Miles above confluence with Sulphur Fork

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: WARTRACE CREEK**

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE <sup>1</sup>	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0.10	103	477	5.0	541.7	540.8 <sup>2</sup>	541.8	1.0
B	0.35	81	423	5.7	552.3	552.3	552.6	0.3
C	0.60	88	362	6.6	560.6	560.6	561.1	0.5
D	0.81	123	518	4.6	566.1	566.1	566.7	0.6
E	0.94	93	392	6.1	570.6	570.6	571.1	0.5
F	1.12	125	508	4.7	577.4	577.4	577.9	0.5
G	1.30	145	53	4.5	584.1	584.1	584.6	0.5
H	1.53	150	684	3.5	591.9	591.9	592.3	0.4
I	1.80	129	452	5.3	599.7	599.7	600.1	0.4

<sup>1</sup> Miles above confluence with Brush Creek

<sup>2</sup> Elevation computed without consideration of backwater effects

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY  
**ROBERTSON COUNTY, TENNESSEE**  
 AND INCORPORATED AREAS

**FLOODWAY DATA**

**FLOODING SOURCE: WEST FORK**

Non-encroachment areas may be delineated where it is not possible to delineate floodways because specific channel profiles with bridge and culvert geometry were not developed. Any non-encroachment determinations for this Flood Risk Project have been tabulated for selected cross sections and are shown in Table 24. The non-encroachment width indicates the measured distance left and right (looking downstream) from the mapped center of the stream to the non-encroachment boundary based on a surcharge of 1.0 foot or less.

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Battle Creek		316	2,609	521.1 <sup>1</sup>	479	5
Battle Creek		971	2,609	521.1 <sup>1</sup>	737	5
Battle Creek	A	1,628	2,609	524.5	5	236
Battle Creek		1,743	2,609	525.8	20	256
Battle Creek		1,783	2,609	527.1	20	300
Battle Creek		1,822	2,609	527.1	20	300
Battle Creek		1,971	2,609	527.5	9	163
Battle Creek		2,725	2,609	533.0	39	31
Battle Creek		2,867	2,609	533.9	26	33
Battle Creek		2,918	2,609	535.3	53	49
Battle Creek		2,930	2,609	536.2	49	70
Battle Creek		2,949	2,609	536.2	49	70
Battle Creek		3,001	2,609	536.3	29	40
Battle Creek	B	3,140	2,609	536.6	21	47
Battle Creek		3,207	2,609	537.2	25	66
Battle Creek		3,241	2,609	537.3	49	57
Battle Creek		3,251	2,609	537.4	46	114
Battle Creek		3,266	2,609	537.4	46	114
Battle Creek		3,287	2,609	537.4	29	123
Battle Creek		3,471	2,609	538.6	21	73
Battle Creek		3,971	2,609	543.7	24	64
Battle Creek	C	4,471	2,609	545.1	16	22
Battle Creek		4,971	2,609	550.7	37	60
Battle Creek		5,289	2,609	554.5	41	19
Battle Creek		5,417	2,609	554.6	24	24

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Battle Creek		5,438	2,609	555.4	24	24
Battle Creek		5,457	2,609	555.4	24	24
Battle Creek		5,496	2,609	555.6	5	43
Battle Creek		5,552	2,609	556.4	19	36
Battle Creek	D	5,971	2,609	560.8	37	142
Battle Creek		6,471	2,609	562.2	9	115
Battle Creek		6,971	2,609	563.8	53	30
Battle Creek	E	7,401	2,609	568.2	119	16
Battle Creek		7,971	2,609	574.5	35	101
Battle Creek		8,371	2,609	576.9	69	31
Battle Creek	F	8,878	2,249	580.2	58	15
Battle Creek		9,471	2,249	586.8	11	71
Battle Creek		9,971	2,249	590.1	35	78
Battle Creek	G	10,471	1,999	591.8	31	28
Battle Creek		10,971	1,999	596.2	28	19
Battle Creek		11,471	1,999	599.8	10	64
Battle Creek	H	11,971	1,999	603.4	159	31
Battle Creek		12,068	1,999	603.8	96	55
Battle Creek		12,121	1,999	604.3	31	31
Battle Creek		12,142	1,999	605.5	31	31
Battle Creek		12,164	1,999	605.5	31	31
Battle Creek		12,278	1,999	605.6	17	22
Battle Creek		12,471	1,999	608.2	17	49
Battle Creek		12,971	1,999	611.2	25	190
Battle Creek		13,054	1,999	611.3	47	113
Battle Creek		13,080	1,999	611.4	99	79
Battle Creek		13,114	1,999	611.4	99	79
Battle Creek		13,218	1,999	611.8	45	24
Battle Creek	I	13,471	1,780	615.4	70	7
Battle Creek		13,971	1,780	620.6	13	53
Battle Creek		14,471	1,780	623.5	58	46
Battle Creek	J	14,971	1,780	626.4	26	49

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Battle Creek		15,531	1,568	632.1	69	17
Battle Creek		15,847	1,568	633.0	39	64
Battle Creek	K	16,471	1,568	639.9	25	79
Battle Creek		16,878	1,568	642.4	97	30
Battle Creek		17,368	1,421	644.2	38	17
Battle Creek	L	17,971	1,421	653.1	199	17
Battle Creek		18,581	1,421	658.2	21	47
Battle Creek		19,148	1,421	666.8	60	36
Battle Creek	M	19,629	1,421	676.9	38	34
Bednigo Branch		48	3,935	565.8 <sup>1</sup>	94	58
Bednigo Branch		589	3,935	565.8 <sup>1</sup>	69	66
Bednigo Branch		764	3,935	565.8 <sup>1</sup>	31	31
Bednigo Branch		818	3,935	565.8 <sup>1</sup>	311	31
Bednigo Branch		862	3,935	565.8 <sup>1</sup>	311	31
Bednigo Branch		1,034	3,935	565.8 <sup>1</sup>	199	29
Bednigo Branch		1,476	3,935	565.8 <sup>1</sup>	104	8
Bednigo Branch	A	1,976	3,935	568.6	108	13
Bednigo Branch		2,209	3,935	570.2	208	75
Bednigo Branch		2,350	3,935	570.3	44	111
Bednigo Branch		2,369	3,935	570.9	44	111
Bednigo Branch		2,382	3,935	570.9	44	111
Bednigo Branch		2,474	3,935	571.1	26	109
Bednigo Branch		2,976	3,935	571.9	231	85
Bednigo Branch		3,419	3,935	574.0	8	129
Bednigo Branch	B	3,976	3,767	578.8	13	169
Bednigo Branch		4,476	3,767	580.2	107	41
Bednigo Branch		5,006	3,767	581.3	95	50
Bednigo Branch		5,128	3,767	581.5	47	47
Bednigo Branch		5,167	3,767	583.8	47	47
Bednigo Branch		5,205	3,767	583.8	47	47
Bednigo Branch		5,308	3,767	583.9	112	12

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Bednigo Branch	C	5,476	3,767	584.2	139	8
Bednigo Branch		5,909	3,767	586.7	113	8
Bednigo Branch		6,373	3,767	589.1	155	26
Bednigo Branch		6,806	3,767	590.4	25	135
Bednigo Branch	D	7,287	3,767	591.6	15	153
Bednigo Branch		7,976	3,767	594.2	20	208
Bednigo Branch		8,362	2,218	595.7	38	32
Bednigo Branch		8,437	2,218	596.0	124	105
Bednigo Branch		8,453	2,218	596.3	168	26
Bednigo Branch		8,471	2,218	596.3	168	26
Bednigo Branch	E	8,543	2,218	598.1	96	39
Bednigo Branch		8,988	2,218	602.1	77	91
Bednigo Branch		9,132	2,218	602.3	101	133
Bednigo Branch		9,150	2,218	602.3	106	120
Bednigo Branch		9,162	2,218	602.3	106	120
Bednigo Branch		9,296	2,218	602.4	4	34
Bednigo Branch		9,870	2,218	609.1	4	272
Bednigo Branch	F	10,265	2,218	610.7	87	97
Brush Fork		35	1,897	595.2 <sup>1</sup>	37	37
Brush Fork		51	1,897	596.9	37	116
Brush Fork		73	1,897	596.9	37	116
Brush Fork	A	200	1,897	596.9	32	49
Brush Fork		500	1,897	598.2	11	53
Brush Fork	B	1,292	1,897	607.4	22	44
Dickerson Branch		230	1,842	610.9 <sup>1</sup>	18	166
Dickerson Branch	A	500	1,842	613.4	79	117
Dickerson Branch		692	1,842	614.6	47	57
Dickerson Branch		710	1,842	616.9	47	57
Dickerson Branch		732	1,842	616.9	47	57
Dickerson Branch		1,000	1,842	617.1	18	91
Dickerson Branch		1,597	1,842	621.3	86	20

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Dickerson Branch	B	2,276	1,842	626.0	8	41
Hollis Creek		183	4,257	500.6 <sup>1</sup>	1,073	18
Hollis Creek		775	4,257	500.8 <sup>1</sup>	847	8
Hollis Creek		1,707	4,257	501.1 <sup>1</sup>	517	54
Hollis Creek		2,101	4,257	501.1 <sup>1</sup>	57	49
Hollis Creek		2,364	4,257	508.1 <sup>1</sup>	157	141
Hollis Creek	A	2,600	4,257	508.1 <sup>1</sup>	157	141
Hollis Creek		3,014	4,257	508.5	8	395
Hollis Creek		3,580	4,257	508.7	8	243
Hollis Creek		3,701	4,257	508.8	34	172
Hollis Creek		3,750	4,257	509.1	34	172
Hollis Creek		3,794	4,257	509.1	34	172
Hollis Creek	B	3,889	4,257	509.1	25	186
Hollis Creek		4,434	3,349	510.1	39	48
Hollis Creek	C	5,014	3,349	512.3	29	32
Hollis Creek		5,514	3,349	516.5	137	45
Hollis Creek		6,014	3,349	518.1	90	27
Hollis Creek	D	6,514	3,349	520.9	34	19
Hollis Creek		6,805	3,349	524.7	70	57
Hollis Creek		6,958	3,349	527.0	211	109
Hollis Creek		7,012	3,349	527.3	124	170
Hollis Creek		7,062	3,349	527.3	124	170
Hollis Creek		7,222	3,349	527.4	7	301
Hollis Creek	E	7,514	3,349	527.4	78	58
Hollis Creek		7,841	3,349	531.6	65	80
Hollis Creek		7,944	3,349	533.9	74	292
Hollis Creek		7,968	3,349	534.0	69	270
Hollis Creek		7,997	3,349	534.0	69	270
Hollis Creek		8,095	3,349	534.8	63	90
Hollis Creek		8,488	3,349	539.0	26	186
Hollis Creek		8,580	3,349	539.6	25	99

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Hollis Creek		8,670	3,349	539.8	35	58
Hollis Creek		8,698	3,349	539.8	35	58
Hollis Creek		8,726	3,349	539.8	35	58
Hollis Creek		8,742	3,349	539.9	7	59
Hollis Creek		8,760	3,349	540.1	14	128
Hollis Creek		8,788	3,349	540.2	14	128
Hollis Creek		8,814	3,349	540.2	14	128
Hollis Creek	F	8,899	3,349	540.3	34	76
Hollis Creek		9,514	3,349	542.2	25	30
Hollis Creek		9,916	3,349	545.9	74	20
Hollis Creek		10,007	3,349	547.6	190	45
Hollis Creek		10,099	3,349	548.0	103	18
Hollis Creek		10,119	3,349	549.8	215	125
Hollis Creek		10,149	3,349	549.8	215	125
Hollis Creek		10,169	3,349	549.9	147	17
Hollis Creek	G	10,477	2,280	550.3	68	16
Hollis Creek		11,014	2,280	557.4	81	53
Hollis Creek		11,514	2,280	561.0	28	20
Hollis Creek		11,820	2,280	562.8	35	19
Hollis Creek	H	11,973	2,280	564.7	62	18
Hollis Creek		12,070	2,280	567.3	91	71
Hollis Creek		12,093	2,280	567.4	68	71
Hollis Creek		12,129	2,280	567.4	68	71
Hollis Creek		12,257	2,280	567.7	42	23
Hollis Creek		12,514	2,280	570.1	66	16
Hollis Creek		13,014	2,280	574.7	103	19
Hollis Creek		13,388	2,280	576.0	217	4
Hollis Creek	I	13,500	2,280	576.2	130	54
Hollis Creek		13,543	2,280	576.4	41	160
Hollis Creek		13,569	2,280	576.4	41	160
Hollis Creek		13,609	2,280	576.8	73	188
Hollis Creek		14,014	2,280	578.2	20	74

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Hollis Creek		14,440	2,280	584.9	14	50
Hollis Creek		14,493	2,280	586.2	79	89
Hollis Creek		14,523	2,280	587.5	50	64
Hollis Creek		14,554	2,280	587.5	50	64
Hollis Creek	J	14,637	2,280	587.6	4	84
Hollis Creek		14,811	2,280	589.5	4	152
Hollis Creek		14,889	2,280	589.7	17	131
Hollis Creek		14,912	2,280	589.9	17	131
Hollis Creek		14,942	2,280	589.9	17	131
Hollis Creek		15,014	2,280	590.0	4	151
Hollis Creek		15,514	1,295	593.7	20	40
Hollis Creek		15,612	1,295	594.0	22	35
Hollis Creek		15,692	1,295	594.2	67	34
Hollis Creek		15,717	1,295	594.6	48	73
Hollis Creek		15,754	1,295	594.6	48	73
Hollis Creek		15,809	1,295	594.9	24	36
Hollis Creek	K	16,014	1,295	597.4	12	34
Hollis Creek		16,101	1,295	599.6	104	119
Hollis Creek		16,164	1,295	599.9	238	15
Hollis Creek		16,195	1,295	600.1	120	15
Hollis Creek		16,235	1,295	600.1	120	15
Hollis Creek		16,348	1,295	600.4	97	2
Hollis Creek		16,514	1,295	600.6	75	9
Hollis Creek		16,939	1,295	601.6	29	8
Hollis Creek	L	17,376	743	608.1	90	2
Hollis Creek		18,226	743	617.6	12	20
Hollis Creek	M	18,986	743	634.8	176	2
Hollis Creek Tributary 1		192	1,315	509.3 <sup>1</sup>	386	45
Hollis Creek Tributary 1		912	1,315	515.8	50	19
Hollis Creek Tributary 1	A	1,536	1,315	522.9	82	24
Hollis Creek Tributary 2		280	1,206	549.9 <sup>1</sup>	7	40

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Hollis Creek Tributary 2	A	471	1,206	551.8	27	25
Hollis Creek Tributary 2		518	1,206	555.4	119	158
Hollis Creek Tributary 2		577	1,206	555.4	119	158
Hollis Creek Tributary 2		688	1,206	555.7	85	138
Hollis Creek Tributary 2		1,000	1,206	557.2	14	118
Hollis Creek Tributary 2	B	1,456	1,206	567.6	19	20
Hollis Creek Tributary 2		2,000	1,206	575.5	38	53
Hollis Creek Tributary 2	C	2,663	1,206	582.8	20	15
Hollis Creek Tributary 3		157	1,121	590.6	86	98
Hollis Creek Tributary 3		491	1,121	595.6	37	8
Hollis Creek Tributary 3	A	858	1,121	602.2	17	65
Hollis Creek Tributary 4		55	729	603.7 <sup>1</sup>	2	40
Hollis Creek Tributary 4	A	149	729	607.0	120	158
Hollis Creek Tributary 4		173	729	610.8	55	143
Hollis Creek Tributary 4		197	729	610.8	55	143
Hollis Creek Tributary 4		277	729	611.1	67	56
Hollis Creek Tributary 4	B	748	729	616.3	23	17
North Fork Sycamore Creek		218	6,036	570.2 <sup>1</sup>	17	493
North Fork Sycamore Creek		256	6,036	570.2 <sup>1</sup>	28	496
North Fork Sycamore Creek		277	6,036	570.2 <sup>1</sup>	28	496
North Fork Sycamore Creek		296	6,036	570.2 <sup>1</sup>	28	496
North Fork Sycamore Creek		397	6,036	570.2 <sup>1</sup>	16	519
North Fork Sycamore Creek		653	6,036	570.2 <sup>1</sup>	33	455
North Fork Sycamore Creek		933	6,036	570.2 <sup>1</sup>	16	385
North Fork Sycamore Creek		1,359	6,036	570.2 <sup>1</sup>	268	16

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
North Fork Sycamore Creek		1,706	6,036	570.2 <sup>1</sup>	237	16
North Fork Sycamore Creek	A	2,012	6,036	570.6	241	16
North Fork Sycamore Creek		2,589	6,036	572.7	53	270
North Fork Sycamore Creek		2,983	6,036	574.2	16	319
North Fork Sycamore Creek		3,280	6,036	575.3	16	268
North Fork Sycamore Creek	B	3,772	6,036	577.4	16	322
North Fork Sycamore Creek		4,250	5,317	578.8	15	307
North Fork Sycamore Creek		4,551	5,317	579.4	15	322
North Fork Sycamore Creek		4,869	5,317	579.9	15	361
North Fork Sycamore Creek	C	5,481	5,317	582.6	15	304
North Fork Sycamore Creek		5,766	5,317	583.7	40	322
North Fork Sycamore Creek		6,128	5,317	584.0	53	121
North Fork Sycamore Creek		6,527	5,317	586.1	20	334
North Fork Sycamore Creek	D	6,918	5,317	587.1	19	193
North Fork Sycamore Creek		7,335	5,317	589.0	23	266
North Fork Sycamore Creek		7,639	5,317	590.2	15	184
North Fork Sycamore Creek		7,984	5,317	591.4	15	292
North Fork Sycamore Creek		8,380	5,317	593.4	15	362
North Fork Sycamore Creek	E	8,929	5,317	595.5	15	313

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
North Fork Sycamore Creek		9,436	5,317	597.4	15	328
North Fork Sycamore Creek		10,020	5,022	599.5	15	410
North Fork Sycamore Creek	F	10,401	5,022	600.6	15	426
North Fork Sycamore Creek		10,710	5,022	601.5	15	315
North Fork Sycamore Creek		10,954	5,022	602.3	15	343
North Fork Sycamore Creek		11,027	5,022	602.5	30	318
North Fork Sycamore Creek		11,053	5,022	603.0	30	318
North Fork Sycamore Creek		11,078	5,022	603.0	30	318
North Fork Sycamore Creek		11,138	5,022	603.2	15	362
North Fork Sycamore Creek		11,518	5,022	604.0	15	319
North Fork Sycamore Creek	G	12,038	5,022	605.6	126	25
North Fork Sycamore Creek		12,536	5,022	608.3	15	258
North Fork Sycamore Creek		13,144	5,022	609.4	15	420
North Fork Sycamore Creek	H	13,664	5,022	611.1	15	166
North Fork Sycamore Creek		13,919	3,720	613.3	13	190
North Fork Sycamore Creek		14,317	3,720	614.7	42	188
North Fork Sycamore Creek	I	14,527	3,720	615.3	128	47
North Fork Sycamore Creek		14,672	3,720	615.8	194	22
North Fork Sycamore Creek		14,728	3,720	616.3	171	28

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
North Fork Sycamore Creek		14,743	3,720	617.3	171	28
North Fork Sycamore Creek		14,758	3,720	617.3	171	28
North Fork Sycamore Creek		14,809	3,720	617.4	217	19
North Fork Sycamore Creek	J	14,974	3,720	618.0	287	13
North Fork Sycamore Creek		15,224	3,720	619.5	279	13
North Fork Sycamore Creek		15,403	3,720	620.0	212	20
North Fork Sycamore Creek		15,455	3,720	620.8	171	27
North Fork Sycamore Creek		15,478	3,720	622.3	171	27
North Fork Sycamore Creek		15,500	3,720	622.3	171	27
North Fork Sycamore Creek		15,545	3,720	622.4	174	72
North Fork Sycamore Creek		15,693	3,720	622.6	146	115
North Fork Sycamore Creek		15,846	3,720	622.8	106	183
North Fork Sycamore Creek		15,980	3,720	623.1	29	223
North Fork Sycamore Creek		16,029	3,720	623.4	33	225
North Fork Sycamore Creek		16,053	3,720	627.8	33	225
North Fork Sycamore Creek		16,075	3,720	627.8	33	225
North Fork Sycamore Creek		16,114	3,720	627.8	26	254
North Fork Sycamore Creek		16,242	3,720	627.8	26	264
North Fork Sycamore Creek		16,383	3,720	627.8	13	306

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
North Fork Sycamore Creek	K	16,553	3,522	627.9	12	321
North Fork Sycamore Creek		16,825	3,522	628.0	12	332
North Fork Sycamore Creek		17,191	3,522	628.3	12	308
North Fork Sycamore Creek	L	17,425	3,522	628.6	12	298
North Fork Sycamore Creek		17,728	3,522	630.0	12	187
North Fork Sycamore Creek		18,118	3,522	632.0	12	44
North Fork Sycamore Creek	M	18,468	3,522	634.9	12	49
North Fork Sycamore Creek		18,661	3,522	636.9	12	104
North Fork Sycamore Creek	N	19,113	3,522	639.9	12	179
North Fork Sycamore Creek		19,544	3,522	642.0	12	166
North Fork Sycamore Creek	O	19,957	3,522	644.6	12	154
North Fork Sycamore Creek		20,354	3,522	647.1	12	111
North Fork Sycamore Creek	P	21,009	3,198	649.7	47	89
North Fork Sycamore Creek		21,546	3,198	652.4	12	103
North Fork Sycamore Creek	Q	22,076	3,198	655.0	110	126
North Fork Sycamore Creek		22,464	3,198	655.9	50	48
North Fork Sycamore Creek	R	23,047	3,198	659.2	53	36
North Fork Sycamore Creek		23,585	3,198	662.9	12	82
North Fork Sycamore Creek		23,929	3,198	665.1	28	175

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
North Fork Sycamore Creek	S	24,209	3,198	666.2	45	128
North Fork Sycamore Creek		24,508	3,198	667.4	33	128
North Fork Sycamore Creek		24,705	2,547	668.3	30	163
North Fork Sycamore Creek		24,842	2,547	668.8	75	121
North Fork Sycamore Creek		24,864	2,547	669.1	75	121
North Fork Sycamore Creek		24,885	2,547	669.1	75	121
North Fork Sycamore Creek		24,958	2,547	670.0	78	100
North Fork Sycamore Creek		25,200	2,547	671.0	30	46
North Fork Sycamore Creek	T	25,677	2,547	675.2	67	63
North Fork Sycamore Creek		26,117	2,547	678.1	12	74
North Fork Sycamore Creek	U	26,557	1,887	679.7	43	58
North Fork Sycamore Creek		27,119	1,887	684.4	25	13
North Fork Sycamore Creek	V	27,630	1,887	687.5	52	185
North Fork Sycamore Creek		28,148	1,887	690.4	32	80
North Fork Sycamore Creek	W	28,732	1,439	695.2	7	80
North Fork Sycamore Creek		29,181	1,439	697.9	7	48
North Fork Sycamore Creek	X	29,695	1,439	703.8	7	41
North Fork Sycamore Creek		30,185	1,439	708.8	19	42
North Fork Sycamore Creek	Y	30,556	1,439	712.6	17	89

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
North Fork Sycamore Creek		30,757	1,439	713.9	7	121
North Fork Sycamore Creek		30,803	1,439	714.0	20	120
North Fork Sycamore Creek		30,824	1,439	715.6	20	120
North Fork Sycamore Creek		30,846	1,439	715.6	20	120
North Fork Sycamore Creek		30,878	1,439	715.7	25	127
North Fork Sycamore Creek		30,986	1,439	715.9	7	143
North Fork Sycamore Creek		31,115	1,439	716.4	7	63
North Fork Sycamore Creek	Z	31,197	1,031	717.9	7	54
North Fork Sycamore Creek		31,454	1,031	721.4	7	63
North Fork Sycamore Creek	AA	31,695	1,031	725.1	38	7
North Fork Sycamore Creek		32,001	1,031	731.1	7	77
North Fork Sycamore Creek	AB	32,319	1,031	736.6	41	7
Redding Branch		126	603	556.8 <sup>1</sup>	353	2
Redding Branch		178	603	556.8 <sup>1</sup>	17	17
Redding Branch		195	603	556.8 <sup>1</sup>	17	17
Redding Branch		214	603	556.8 <sup>1</sup>	17	17
Redding Branch		249	603	556.8 <sup>1</sup>	77	2
Redding Branch		273	603	556.8 <sup>1</sup>	263	8
Redding Branch		309	603	556.8 <sup>1</sup>	300	2
Redding Branch		323	603	556.8 <sup>1</sup>	300	2
Redding Branch		336	603	556.8 <sup>1</sup>	300	2
Redding Branch		352	603	556.8 <sup>1</sup>	20	20
Redding Branch		361	603	556.8 <sup>1</sup>	167	20
Redding Branch		377	603	556.8 <sup>1</sup>	167	20

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Redding Branch		420	603	556.8 <sup>1</sup>	128	36
Redding Branch		696	603	556.8 <sup>1</sup>	56	23
Redding Branch		762	603	556.8 <sup>1</sup>	33	23
Redding Branch		794	603	556.8 <sup>1</sup>	49	22
Redding Branch		809	603	556.8 <sup>1</sup>	23	16
Redding Branch		819	603	556.8 <sup>1</sup>	23	16
Redding Branch	A	854	603	557.6	37	2
Redding Branch	B	1,142	603	561.7	49	23
Redding Branch	C	1,620	603	565.3	10	7
Reeves Branch		293	1,464	518.1 <sup>1</sup>	200	2
Reeves Branch		2,060	1,464	519.5 <sup>1</sup>	2	289
Reeves Branch		3,060	1,464	520.6 <sup>1</sup>	177	2
Reeves Branch	A	4,060	1,464	528.2	121	37
Reeves Branch		4,701	1,110	534.0	24	48
Reeves Branch		4,800	1,110	534.8	14	116
Reeves Branch		4,841	1,110	536.0	53	205
Reeves Branch		4,880	1,110	536.0	53	205
Reeves Branch		4,968	1,110	536.7	102	107
Reeves Branch	B	5,560	1,110	544.2	49	16
Reeves Branch		6,060	1,110	547.9	2	92
Reeves Branch		6,560	1,110	555.7	5	44
Reeves Branch	C	7,060	1,110	557.2	87	14
Reeves Branch		7,561	1,110	561.1	6	18
Reeves Branch	D	8,060	1,110	571.0	56	32
Reeves Branch		8,560	1,110	575.3	16	22
Reeves Branch	E	9,267	1,110	583.0	18	17
Sycamore Creek		91,247	40,796	495.9	234	363
Sycamore Creek		91,315	40,796	500.6	331	323
Sycamore Creek		91,389	40,796	500.6	331	323
Sycamore Creek	A	91,583	40,796	500.7	488	380
Sycamore Creek		91,851	40,796	500.9	483	464

<sup>1</sup> Elevation computed with consideration of backwater effects

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Sycamore Creek		92,148	37,626	501.1	301	672
Sycamore Creek		92,376	37,626	501.2	146	661
Sycamore Creek		92,486	37,626	501.2	173	606
Sycamore Creek		92,531	37,626	504.8	173	606
Sycamore Creek		92,592	37,626	504.8	173	606
Sycamore Creek		92,697	37,626	504.9	206	488
Sycamore Creek	B	92,872	37,626	504.9	194	296
Sycamore Creek		93,118	37,626	505.0	79	328
Sycamore Creek		93,604	37,626	505.8	70	520
Sycamore Creek		94,000	37,626	506.0	67	718
Sycamore Creek		94,500	37,626	506.3	64	743
Sycamore Creek		94,984	37,626	506.5	84	761
Sycamore Creek		95,456	37,626	506.6	87	783
Sycamore Creek		95,974	37,626	506.9	70	811
Sycamore Creek	C	96,334	37,626	507.0	67	868
Sycamore Creek		96,659	37,626	507.3	60	971
Sycamore Creek		97,236	37,626	507.7	596	668
Sycamore Creek		97,472	37,626	507.9	833	570
Sycamore Creek		97,538	37,626	511.3	833	570
Sycamore Creek		97,613	37,626	511.3	833	570
Sycamore Creek		97,682	37,626	511.3	825	599
Sycamore Creek		97,740	37,626	511.3	821	597
Sycamore Creek		97,824	37,626	511.4	630	283
Sycamore Creek		97,908	37,626	511.4	466	300
Sycamore Creek		97,968	37,626	514.5	466	300
Sycamore Creek		98,057	37,626	514.5	466	300
Sycamore Creek	D	98,175	37,626	514.5	473	331
Sycamore Creek		98,381	37,626	514.5	479	234
Sycamore Creek		98,700	37,626	514.7	491	75
Sycamore Creek		99,080	37,626	514.9	448	60
Sycamore Creek		99,446	37,626	515.2	485	65
Sycamore Creek		99,854	37,626	515.9	241	549

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Sycamore Creek		100,161	37,626	516.2	69	670
Sycamore Creek		100,544	37,626	516.6	88	683
Sycamore Creek		100,982	37,626	517.1	82	791
Sycamore Creek		101,462	37,626	517.4	426	522
Sycamore Creek	E	101,753	37,626	517.6	517	61
Sycamore Creek		102,019	37,626	517.9	558	139
Sycamore Creek		102,311	37,626	518.7	518	407
Sycamore Creek		102,578	37,626	519.0	396	534
Sycamore Creek		102,998	37,626	519.4	122	744
Sycamore Creek		103,389	37,626	519.5	64	706
Sycamore Creek		103,772	37,626	519.9	61	720
Sycamore Creek		104,164	37,626	520.4	77	808
Sycamore Creek		104,628	37,626	520.6	539	57
Sycamore Creek	F	104,949	37,626	521.7	341	458
Sycamore Creek		105,339	37,626	522.0	212	559
Sycamore Creek		105,714	32,965	522.5	117	568
Sycamore Creek		106,005	32,965	522.9	322	393
Sycamore Creek		106,265	32,965	523.1	347	275
Sycamore Creek		106,722	32,965	523.5	79	476
Sycamore Creek		107,282	32,965	524.2	243	295
Sycamore Creek		107,582	32,965	524.5	278	279
Sycamore Creek		107,945	32,965	524.9	110	536
Sycamore Creek		108,350	32,965	525.3	70	673
Sycamore Creek	G	108,845	32,965	525.8	64	837
Sycamore Creek		109,313	32,965	526.1	58	928
Sycamore Creek		109,915	32,965	526.7	53	764
Sycamore Creek		110,469	32,965	527.4	66	630
Sycamore Creek		110,896	32,965	528.6	66	744
Sycamore Creek		111,291	32,965	529.7	131	776
Sycamore Creek		111,598	32,965	530.8	187	649
Sycamore Creek		112,004	32,965	531.4	238	450
Sycamore Creek		112,392	32,965	531.9	295	283

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Sycamore Creek	H	112,703	32,965	532.5	377	129
Sycamore Creek		112,995	32,965	533.4	422	79
Sycamore Creek		113,231	32,965	533.5	384	56
Sycamore Creek		113,567	32,965	536.0	495	49
Sycamore Creek		113,887	32,965	536.7	621	39
Sycamore Creek		114,136	32,965	536.9	674	47
Sycamore Creek		114,324	32,965	537.2	643	74
Sycamore Creek		114,593	32,965	537.6	532	240
Sycamore Creek		114,621	32,965	540.4	532	240
Sycamore Creek		114,652	32,965	540.4	532	240
Sycamore Creek		114,806	32,965	540.4	342	272
Sycamore Creek		115,151	32,965	540.6	78	371
Sycamore Creek		115,634	32,965	541.5	64	587
Sycamore Creek	I	115,901	32,965	541.8	46	709
Sycamore Creek		116,200	32,965	541.9	45	723
Sycamore Creek		116,503	32,965	542.2	48	637
Sycamore Creek		117,009	32,965	542.6	106	541
Sycamore Creek		117,415	32,965	542.9	99	495
Sycamore Creek		117,867	32,965	543.1	78	449
Sycamore Creek		118,341	32,965	543.9	263	406
Sycamore Creek		118,738	32,965	544.3	110	637
Sycamore Creek		119,038	32,965	544.5	70	591
Sycamore Creek	J	119,398	32,965	544.7	237	426
Sycamore Creek		119,783	32,965	545.1	327	185
Sycamore Creek		120,063	32,965	545.7	217	142
Sycamore Creek		120,465	32,965	546.9	213	73
Sycamore Creek		120,918	32,965	549.1	322	55
Sycamore Creek		121,331	32,965	550.4	357	62
Sycamore Creek		121,805	32,965	551.6	699	91
Sycamore Creek		122,145	32,965	552.0	903	90
Sycamore Creek	K	122,506	32,965	552.1	743	382

**Table 24: Flood Hazard and Non-Encroachment Data for Selected Streams continued**

Flooding Source	Cross Section	Stream Station (feet above mouth)	1% Annual Chance Flood Discharge (cfs)	1% Annual Chance Water Surface Elevation (feet NAVD88)	Non-Encroachment Width (feet)	
					Left	Right
Sycamore Creek Tributary A		137	1,940	544.7 <sup>1</sup>	16	357
Sycamore Creek Tributary A		872	1,940	544.7 <sup>1</sup>	144	24
Sycamore Creek Tributary A		1,575	1,940	544.7 <sup>1</sup>	4	113
Sycamore Creek Tributary A	A	1,963	1,815	546.7	7	126
Sycamore Creek Tributary A		2,491	1,815	551.0	9	65
Sycamore Creek Tributary A		3,075	1,815	556.7	11	81
Sycamore Creek Tributary A	B	3,540	1,815	559.7	13	76

<sup>1</sup> Elevation computed with consideration of backwater effects

## 6.4 Coastal Flood Hazard Mapping

This section is not applicable to this Flood Risk Project.

**Table 25: Summary of Coastal Transect Mapping Considerations**

[Not Applicable to this Flood Risk Project]

## 6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 30, “Map Repositories”).

### 6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA.

To obtain an application for a LOMA, visit [www.fema.gov/floodplain-management/letter-map-amendment-loma](http://www.fema.gov/floodplain-management/letter-map-amendment-loma) and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at [www.fema.gov/online-tutorials](http://www.fema.gov/online-tutorials).

For more information about how to apply for a LOMA, call the FEMA Mapping and Insurance eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

### 6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting [www.fema.gov/floodplain-management/letter-map-amendment-loma](http://www.fema.gov/floodplain-management/letter-map-amendment-loma) for the “MT-1 Application Forms and Instructions for Conditional

and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Mapping and Insurance eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at [www.fema.gov/online-tutorials](http://www.fema.gov/online-tutorials).

### **6.5.3 Letters of Map Revision**

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit [www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/mt-2-application-forms-and-instructions](http://www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/mt-2-application-forms-and-instructions) and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Mapping and Insurance eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the Robertson County FIRM are listed in Table 26.

#### **Table 26: Incorporated Letters of Map Change**

[Not Applicable to this Flood Risk Project]

### **6.5.4 Physical Map Revisions**

A Physical Map Revisions (PMR) is an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit [www.fema.gov](http://www.fema.gov) and visit the “Flood Map Revision Processes” section.

### 6.5.5 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit [www.fema.gov](http://www.fema.gov) to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

### 6.5.6 Community Map History

The current FIRM presents flooding information for the entire geographic area of Robertson County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBM) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 27, "Community Map History." A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or "pending" (for Preliminary FIS Reports) is shown. If the community is listed in Table 27 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first FHBM. This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as PMRs of FIRM panels within the county are

completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the Robertson County FIRMs in countywide format was 04/16/2008.

**Table 27: Community Map History**

Community Name	Initial Identification Date	Initial FHBM Effective Date	FHBM Revision Date(s)	Initial FIRM Effective Date	FIRM Revision Date(s)
Adams, City of	11/15/1974	11/15/1974	N/A	06/01/2005	04/16/2008
Cedar Hill, Town of <sup>1,2</sup>	04/16/2008	N/A	N/A	04/16/2008	N/A
Coopertown, Town of <sup>2</sup>	04/16/2008	N/A	N/A	04/16/2008	02/26/2021
Cross Plains, Town of <sup>2</sup>	04/16/2008	N/A	N/A	04/16/2008	N/A
Greenbrier, City of <sup>2</sup>	04/16/2008	N/A	N/A	04/16/2008	02/26/2021
Orlinda, Town of <sup>2</sup>	04/16/2008	N/A	N/A	04/16/2008	N/A
Ridgetop, City of <sup>2</sup>	04/16/2008	N/A	N/A	04/16/2008	02/26/2021
Robertson County, Unincorporated Areas	01/06/1978	N/A	N/A	06/15/1984	02/26/2021 04/16/2008
Springfield, City of	06/14/1974	06/14/1974	02/06/1976	09/30/1983	04/16/2008

<sup>1</sup> No Special Flood Hazard Areas

<sup>2</sup> This community does not have a map history prior to first time countywide mapping

## SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

### 7.1 Contracted Studies

Table 28 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

**Table 28: Summary of Contracted Studies Included in this FIS Report**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Battle Creek	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Beaver Dam Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Beaver Dam Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Bednigo Branch	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of; Robertson County, Unincorporated Areas
Browns Fork	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Browns Fork	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Robertson County, Unincorporated Areas
Brush Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Coopertown, Town of; Robertson County, Unincorporated Areas
Brush Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Brush Fork	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Robertson County, Unincorporated Areas
Buzzard Creek	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Robertson County, Unincorporated Areas
Calebs Creek	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Robertson County, Unincorporated Areas
Carr Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Carr Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Dickerson Branch	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Robertson County, Unincorporated Areas
Elk Fork Creek	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Robertson County, Unincorporated Areas
Frey Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Frey Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas

**Table 28: Summary of Contracted Studies included in this FIS Report continued**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Hollis Creek	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of; Robertson County, Unincorporated Areas
Hollis Creek Tributary 1	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Hollis Creek Tributary 2	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Hollis Creek Tributary 3	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Hollis Creek Tributary 4	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Honey Run	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Cross Plains, Town of; Robertson County, Unincorporated Areas; White House, City of
Honey Run Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Honey Run Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Long Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Greenbrier, City of; Robertson County, Unincorporated Areas
Long Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Greenbrier, City of; Robertson County, Unincorporated Areas
Mill Branch	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Robertson County, Unincorporated Areas
Millers Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Coopertown, Town of; Robertson County, Unincorporated Areas
Millers Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Coopertown, Town of
North Fork Sycamore Creek	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Robertson County, Unincorporated Areas
Pole Bridge Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Greenbrier, City of; Ridgetop, City of; Robertson County, Unincorporated Areas
Pole Bridge Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Greenbrier, City of; Ridgetop, City of; Robertson County, Unincorporated Areas

**Table 28: Summary of Contracted Studies included in this FIS Report continued**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Red River	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Adams, City of; Robertson County, Unincorporated Areas
Red River	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Red River	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Orlinda, Town of; Robertson County, Unincorporated Areas
Red River	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Redding Branch	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Reeves Branch	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Savage Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Savage Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
South Fork Sycamore Creek	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Robertson County, Unincorporated Areas
South Red River	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Cross Springs, Town of; Robertson County, Unincorporated Areas
Spring Creek	04/16/2008	Taylor Engineering Inc.	EMA-2002-CO0011A	April 2008	Robertson County, Unincorporated Areas
Sulphur Fork	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Sulphur Fork	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas; Springfield, City of
Sulphur Fork	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Summers Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Summers Branch	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Portland, City of; Robertson County, Unincorporated Areas

**Table 28: Summary of Contracted Studies included in this FIS Report continued**

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Sycamore Creek	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Robertson County, Unincorporated Areas
Sycamore Creek	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of; Robertson County, Unincorporated Areas
Sycamore Creek Tributary A	02/26/2021	AECOM	HSFE04-15-J0067	October 2017	Coopertown, Town of
Unnamed Tributary of Red River	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Unnamed Tributary of Red River	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Unnamed Tributary to Millers Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Unnamed Tributary to Millers Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
Wartrace Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas; Springfield, City of
Wartrace Creek	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
West Fork	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas
West Fork	12/15/1983	U.S. Army Corps of Engineers, Nashville District	IAA-H-9-79	May 1982	Robertson County, Unincorporated Areas

## **7.2 Community Meetings**

The dates of the community meetings held for this Flood Risk Project and previous Flood Risk Projects are shown in Table 29. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

**Table 29: Community Meetings**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Adams, City of	04/16/2008	04/25/2006	Initial CCO	Representatives of FEMA, the community, and the study contractor.
		07/11/2007	Final CCO	Representatives of FEMA, the community, and the study contractor.
Cedar Hill, Town of	04/16/2008	04/25/2006	Initial CCO	Representatives of FEMA, the community, and the study contractor.
		07/11/2007	Final CCO	Representatives of FEMA, the community, and the study contractor.
Coopertown, Town of	02/26/2021	04/18/2013	Discovery	FEMA, the communities, the study contractor, and USACE.
		02/07/2018	Flood Risk Review (FRR)	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
		09/06/2018	Final CCO	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
Cross Plains, Town of	04/16/2008	04/25/2006	Initial CCO	Representatives of FEMA, the community, and the study contractor.
		07/11/2007	Final CCO	Representatives of FEMA, the community, and the study contractor.

**Table 29: Community Meetings continued**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Greenbrier, City of	02/26/2021	04/18/2013	Discovery	FEMA, the communities, the study contractor, and USACE.
		02/07/2018	Flood Risk Review (FRR)	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
		09/06/2018	Final CCO	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
Orlinda, Town of	04/16/2008	04/25/2006	Initial CCO	Representatives of FEMA, the community, and the study contractor
		07/11/2007	Final CCO	Representatives of FEMA, the community, and the study contractor
Ridgetop, City of	02/26/2021	04/18/2013	Discovery	FEMA, the communities, the study contractor, and USACE.
		02/07/2018	Flood Risk Review (FRR)	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
		09/06/2018	Final CCO	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
Robertson County, Unincorporated Areas	02/26/2021	04/18/2013	Discovery	FEMA, the communities, the study contractor, and USACE.
		02/07/2018	Flood Risk Review (FRR)	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.
		09/06/2018	Final CCO	Representatives of the State of Tennessee, the communities, FEMA, and study contractor.

**Table 29: Community Meetings continued**

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Springfield, City of	04/16/2008	04/25/2006	Initial CCO	Representatives of FEMA, the community, and the study contractor
		07/11/2007	Final CCO	Representatives of FEMA, the community, and the study contractor

## SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see [www.fema.gov](http://www.fema.gov).

Table 30 is a list of the locations where FIRMs for Robertson County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

**Table 30: Map Repositories**

Community	Address	City	State	Zip Code
Adams, City of	City Hall 7617 Highway 41 N, Suite 101	Adams	TN	37010
Cedar Hill, Town of <sup>1</sup>	City Hall 90 South Main Street	Cedar Hill	TN	37032
Coopertown, Town of	Town of Coopertown City Hall 2525 Burgess Gower Road	Springfield	TN	37172
Cross Plains, Town of	City Hall 7622 Highway 25 East	Cross Plains	TN	37049
Greenbrier, City of	City Hall 790 West College Street	Greenbrier	TN	37073
Orlinda, Town of	City Hall 7501 Tennessee 52 East	Orlinda	TN	37141
Ridgetop, City of	City Hall 1730 Highway 41 South	Ridgetop	TN	37152
Robertson County, Unincorporated Areas	Robertson County Planning and Zoning Building 527 South Brown Street	Springfield	TN	37172
Springfield, City of	City Hall 405 North Main Street	Springfield	TN	37172

<sup>1</sup> No Special Flood Hazard Areas Identified

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM Databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 31.

Table 31 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the State NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in

developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of State and local GIS data in their state.

**Table 31: Additional Information**

FEMA and the NFIP	
FEMA and FEMA Engineering Library website	<a href="http://www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library">www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library</a>
NFIP website	<a href="http://www.fema.gov/national-flood-insurance-program">www.fema.gov/national-flood-insurance-program</a>
NFHL Dataset	<a href="http://msc.fema.gov">msc.fema.gov</a>
FEMA Region IV	Federal Emergency Management Agency 3003 Chamblee Tucker Road Atlanta, GA 30341
Other Federal Agencies	
USGS website	<a href="http://www.usgs.gov">www.usgs.gov</a>
Hydraulic Engineering Center website	<a href="http://www.hec.usace.army.mil">www.hec.usace.army.mil</a>
State Agencies and Organizations	
State NFIP Coordinator	Amy Miller Office of Emergency Services William R. Snodgrass Tennessee Tower, 10 <sup>th</sup> Floor 312 Rosa L. Parks Ave Nashville, TN 37243 (615) 770-1084 <a href="mailto:Amy.J.Miller@tn.gov">Amy.J.Miller@tn.gov</a>
State GIS Coordinator	Dennis Pedersen, Division Director Office for Information Resources, GIS Services Tennessee Tower, 16 <sup>th</sup> Floor 312 8 <sup>th</sup> Avenue, North Nashville, TN 37243 (615) 741-9356 <a href="mailto:Dennis.Pedersen@tn.gov">Dennis.Pedersen@tn.gov</a>

## SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 32 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

**Table 32: Bibliography and References**

Citation in this FIS	Publisher / Issuer	Publication Title, "Article," Volume, Number, etc.	Author / Editor	Place of Publication	Publication Date / Date of Issuance	Link
FIS 1983 May	Federal Emergency Management Agency	Flood Insurance Study, City of Springfield, Robertson County, Tennessee (470163V000)		Washington, D.C.	May 30, 1983	FEMA Flood Map Service Center <a href="http://msc.fema.gov">msc.fema.gov</a>
FIS 1983 Dec	Federal Emergency Management Agency	Flood Insurance Study, Robertson County, Tennessee and Unincorporated Areas (470158V000)		Washington, D.C.	December 15, 1983	FEMA Flood Map Service Center <a href="http://msc.fema.gov">msc.fema.gov</a>
FIS 2008	Federal Emergency Management Agency	Flood Insurance Study, Robertson County, Tennessee and Unincorporated Areas (47147CV000A)		Washington, D.C.	April 16, 2008	FEMA Flood Map Service Center <a href="http://msc.fema.gov">msc.fema.gov</a>
FIS 2012	Federal Emergency Management Agency	Flood Insurance Study, Sumner County, Tennessee and Unincorporated Areas (47165CV001C)		Washington, D.C.	April 17, 2012	FEMA Flood Map Service Center <a href="http://msc.fema.gov">msc.fema.gov</a>
TDOT 2013	Tennessee Department of Transportation	Robertson County Aerial Imagery 2013		Nashville, Tennessee	August 28, 2013	
USACE 1976	U.S. Army Corps of Engineers, Hydrologic Engineering Center	HEC-2, Computation of Water Surface Profiles, Users Manual of HEC-2 Computer Program 723X6L202A		Davis, California	November 1976	
USACE 2004	U.S. Army Corps of Engineers, Hydrologic Engineering Center	HEC-RAS 3.1.2, River Analysis System, Version 3.1.2, Computer Software		Davis, California	June 2004	
USACE 2010	U.S. Army Corps of Engineers, Hydrologic Engineering Center	HEC-RAS 4.1.0, River Analysis System, Version 4.1.0, Computer Software		Davis, California	January 2010	
USACE 2013	U.S. Army Corps of Engineers, Hydrologic Engineering Center	HEC-HMS 4.0, Hydrologic Modeling System, Version 4.0		Davis, California	December 2013	
USACE 2016 4D	U.S. Army Corps of Engineers, Nashville District	"Metro Nashville PAS - Phase 4D - Flood Insurance Update Draft Preliminary"		Nashville, Tennessee	October 2016	

**Table 32: Bibliography and References continued**

Citation in this FIS	Publisher / Issuer	Publication Title, "Article," Volume, Number, etc.	Author / Editor	Place of Publication	Publication Date / Date of Issuance	Link
USGS 1976	U.S. Geological Survey, for Tennessee Department of Transportation	"Techniques for Estimating Magnitude and Frequency of Floods in Tennessee"		Washington, D.C.	1976	
USGS 2000	U.S. Department of Interior, Geological Survey	"Flood-Frequency Prediction Methods for Unregulated Streams of Tennessee, 2000" Water-Resources Investigations Report 03-4176, WIR 03-4176		Nashville, Tennessee	2000	<a href="http://pubs.usgs.gov/wri/wri034176/PDF/wrir034176.pdf">http://pubs.usgs.gov/wri/wri034176/PDF/wrir034176.pdf</a>
USGS 2006	U.S. Department of Interior, Geological Survey	7.5 Minute Series Topographic Maps		Nashville, Tennessee	2006	