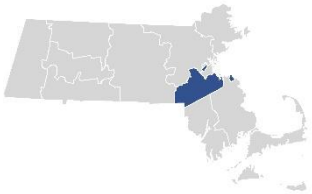
FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 4 OF 7



NORFOLK COUNTY, MASSACHUSETTS

(ALL JURISDICTIONS)

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
AVON, TOWN OF	250231	MILTON, TOWN OF	250245
BELLINGHAM, TOWN OF	250232	NEEDHAM, TOWN OF	255215
BRAINTREE, TOWN OF	250233	NORFOLK, TOWN OF	255217
BROOKLINE, TOWN OF	250234	NORWOOD, TOWN OF	250248
CANTON, TOWN OF	250235	PLAINVILLE, TOWN OF	250249
COHASSET, TOWN OF	250236	QUINCY, CITY OF	255219
DEDHAM, TOWN OF	250237	RANDOLPH, TOWN OF	250251
DOVER, TOWN OF	250238	SHARON, TOWN OF	250252
FOXBOROUGH, TOWN OF	250239	STOUGHTON, TOWN OF	250253
FRANKLIN, TOWN OF	250240	WALPOLE, TOWN OF	250254
HOLBROOK, TOWN OF	255212	WELLESLEY, TOWN OF	250255
MEDFIELD, TOWN OF	250242	WESTWOOD, TOWN OF	255225
MEDWAY, TOWN OF	250243	WEYMOUTH, TOWN OF	250257
MILLIS, TOWN OF	250244	WRENTHAM, TOWN OF	250258

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LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	32	38	139	0.5	9.8	8.5[2]	8.5	0.0
B	164	76	390	0.2	9.8	8.5[2]	8.5	0.0
C	1,151	89	277	0.2	9.8	8.5[2]	8.5	0.0

[1]Feet above confluence with Little Harbor

[2]Elevation computed without consideration of backwater effects from Little Harbor

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: RICHARDSONS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,800	33	101	2.8	180.7	180.7	181.7	1.0
B	2,410	16	68	4.3	184.5	184.5	185.5	1.0
C	3,760	55	126	2.3	190.9	190.9	191.9	1.0
D	5,260	39	81	3.6	198.9	198.9	199.9	1.0
E	6,400	26	139	2.1	209.5	209.5	210.5	1.0
F	7,650	12	43	6	224.4	224.4	224.9	0.5
G	8,290	6	32	8.1	228.7	228.7	228.9	0.2
H	9,060	28	44	5.4	233.6	233.6	234.6	1.0
I	10,250	65	109	2.2	247.7	247.7	247.7	0.0

[1]Feet above Copeland Drive

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: ROBINSON BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	16 / 139[2]	88	1.2	112.4	112.4	113.4	1.0
B	1,473	20	12	4.5	139.8	139.8	140.0	0.2
C	1,927	10	13	4.2	147.0	147.0	147.3	0.3

[1]Feet above confluence with Trout Brook

[2]Floodway width for Rocky Brook independent of other reaches / combined floodway width for Rocky Brook and Trout Brook (Town of Dover)

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: ROCKY BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	32	146	3.0	170.2	170.2	171.2	1.0
B	2,290	233	587	0.8	173.2	173.2	174.2	1.0
C	3,750	399	2,411	0.2	181.4	181.4	182.4	1.0
D	4,900	125	386	1.4	181.7	181.7	182.7	1.0
E	5,780	22	49	3.5	185.4	185.4	186.2	0.8
F	6,980	235	717	0.6	187.1	187.1	188.1	1.0
G	8,470	191	445	0.9	187.7	187.7	188.7	1.0
H	9,810	49	168	2.5	192.0	192.0	193.0	1.0
I	11,430	10	53	7.9	198.6	198.6	199.4	0.8
J	11,600	156	661	0.8	199.6	199.6	200.4	0.8
K	12,150	456	1,407	0.3	199.7	199.7	200.5	0.8

[1]Feet above Country Street

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: RUMFORD RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,820	61	167	0.7	182.0	181.5[2]	182.5	1.0
B	2,110	64	185	1.6	182.0	181.9[2]	182.9	1.0
C	2,410	297	1,747	0.2	186.9	186.9	187.9	1.0
D	4,000	526	2,516	0.1	186.9	186.9	187.9	1.0
E	4,750	434	1,917	0.1	186.9	186.9	187.9	1.0

[1]Feet above confluence with Neponset River

[2]Elevation computed without consideration of backwater effects from Neponset River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SCHOOL MEADOW BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
EI[2]	51,443	15	16	4.1	300.2	300.2	300.5	0.3
EJ	51,562	181	181	0.4	302.4	302.4	302.4	0.0

[1]Feet above confluence with Ten Mile River

[2]Cross sections A-C (Providence County, Rhode Island) and D-EH (Bristol County, Massachusetts) in floodway data tables for other counties

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SEVENMILE RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	200	44	142	3.5	165.6	161.6[2]	162.6	1.0
B	1,690	46	221	2.2	165.6	165.2[2]	165.9	0.7
C	1,870	70	477	1.0	167.3	167.3	167.7	0.4
D	3,350	45	280	1.8	167.5	167.5	168.0	0.5
E	3,640	30	193	2.5	168.8	168.8	169.0	0.2
F	4,550	38	235	2.1	168.8	168.8	169.6	0.8

[1]Feet above confluence with Charles River

[2]Elevation computed without consideration of backwater effects from Charles River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SHEPARDS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	128	443	2.3	113.0	113.0	113.5	0.5
B	235	51	372	2.8	113.5	113.5	114.0	0.5
C	1,404	236	613	1.7	117.1	117.1	117.7	0.6
D	1,900	15	104	10.0	120.0	120.0	120.5	0.5
E	2,166	81	562	1.8	124.5	124.5	125.1	0.6
F	3,094	389	1,370	0.7	132.2	132.2	132.4	0.2
G	3,548	25	125	8.2	135.8	135.8	136.4	0.6
H	3,652	38	163	6.3	142.9	142.9	143.0	0.1
I	3,870	22	170	6.0	146.8	146.8	146.9	0.1
J	5,858	59	222	3.3	156.4	156.4	156.9	0.5
K	6,413	69	287	2.5	161.3	161.3	161.8	0.5
L	6,545	80	267	2.7	162.2	162.2	162.8	0.6
M	8,622	123	178	1.3	176.7	176.7	177.1	0.4
N	9,035	107	473	0.5	182.5	182.5	182.9	0.4
O	10,013	153	514	0.4	185.8	185.8	186.2	0.4

[1]Feet above dam

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: STEEP HILL BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,600	127	455	1.0	152.7	152.7	153.7	1.0
B	4,050	40	124	3.8	156.3	156.3	157.3	1.0
C	7,300	78	408	0.9	176.5	176.5	177.5	1.0
D	8,740	126	702	0.5	180.0	180.0	181.0	1.0
E	10,600	91	557	0.7	181.7	181.7	182.7	1.0

[1]Feet above confluence with Stop River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: STONY BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	9,060	40	295	1.1	146.8	146.8	147.8	1.0
B	10,900	163	1,194	0.3	148.2	148.2	149.2	1.0
C	13,810	330	2,390	0.1	148.2	148.2	149.2	1.0
D	15,900	163	718	0.4	148.7	148.7	149.7	1.0
E	19,000	172	809	0.4	151.9	151.9	152.9	1.0
F	20,800	824	3,017	0.1	152.2	152.2	153.2	1.0
G	23,800	181	606	1.2	152.7	152.7	153.7	1.0
H	25,500	30	243	1.9	173.9	173.9	174.9	1.0

[1]Feet above corporate limits

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: STOP RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	32	80	261	0.4	254.0	254.0	255.0	1.0
B	232	27	72	1.4	256.6	256.6	257.2	0.6
C	370	13	16	6.3	257.4	257.4	257.5	0.1
D	602	19	36	3.7	262.0	262.0	263.0	1.0
E	708	12	22	4.6	262.9	262.9	263.2	0.3
F	797	13	27	3.9	266.9	266.9	267.9	1.0
G	929	61	161	0.6	268.0	268.0	268.4	0.4
H	1,172	28	69	1.5	268.2	268.2	268.5	0.3
I	1,489	44	147	0.5	268.7	268.7	269.0	0.3
J	2,123	187	525	0.2	268.8	268.8	269.1	0.3

[1]Feet above confluence with Massapoag Lake

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SUCKER BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
FM[2]	108,300	32	73	2.5	186.8	186.8	187.8	1.0
FN	108,503	30	61	3.0	188.3	188.3	188.6	0.3
FO	108,903	21	55	3.3	190.1	190.1	190.8	0.7
FP	108,974	23	80	2.3	192.5	192.5	192.4	0.0
FQ	109,081	325	656	0.3	196.0	196.0	196.0	0.0
FR	109,710	48	38	4.9	195.9	195.9	195.9	0.0
FS	110,246	66	85	2.1	199.5	199.5	199.5	0.0
FT	110,343	80	128	1.4	202.5	202.5	202.5	0.0
FU	110,495	76	125	1.5	202.7	202.7	202.7	0.0
FV	110,764	211	217	0.8	207.9	207.9	207.9	0.0
FW	110,851	296	377	0.5	207.9	207.9	207.9	0.0
FX	110,948	464	1,439	0.1	207.9	207.9	207.9	0.0
FY	111,190	80	600	0.6	207.9	207.9	207.9	0.0
FZ	111,233	177	1,398	0.3	207.9	207.9	208.0	0.1
GA	111,493	94	536	0.7	207.9	207.9	208.0	0.1
GB	111,498	104	572	0.6	207.9	207.9	208.0	0.1
GC	111,720	193	759	0.5	208.0	208.0	208.0	0.0
GD	111,866	835	2,333	0.2	208.0	208.0	208.0	0.0
GE	113,339	96	304	1.2	208.0	208.0	208.0	0.0
GF	114,055	410	961	0.4	208.1	208.1	208.2	0.1
GG	114,447	26	115	3.2	208.2	208.2	208.3	0.1

[1]Feet above confluence with Seekonk River

[2]Cross sections A-AH (Providence County, Rhode Island) and AI-FL (Bristol County, Massachusetts) in floodway data tables for other counties

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TEN MILE RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
GH	114,482	26	117	3.1	208.2	208.2	208.3	0.1
GI	114,628	30	191	1.9	210.4	210.4	210.4	0.0
GJ	115,287	144	722	0.5	210.4	210.4	210.5	0.1
GK	116,010	106	321	1.1	210.4	210.4	210.6	0.2
GL	116,108	186	1,810	0.2	216.4	216.4	217.4	1.0
GM	116,937	197	889	0.4	216.4	216.4	217.4	1.0
GN	117,365	50	48	5.6	218.7	218.7	218.7	0.0
GO	117,493	14	36	7.4	220.3	220.3	220.6	0.3
GP	117,741	48	60	4.4	224.1	224.1	224.6	0.5
GQ	118,107	51	110	2.4	225.1	225.1	226.0	0.9
GR	118,278	39	80	3.4	225.7	225.7	226.3	0.6
GS	118,496	26	55	6.4	227.2	227.2	227.9	0.7
GT	118,749	19	46	5.8	230.1	230.1	230.2	0.1
GU	119,027	229	2,229	0.1	232.7	232.7	233.7	1.0
GV	119,285	378	3,756	0.0	232.7	232.7	233.7	1.0
GW	119,721	33	122	1.0	232.7	232.7	233.7	1.0
GX	120,095	21	89	1.4	235.7	235.7	236.7	1.0

[1]Feet above confluence with Seekonk River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TEN MILE RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,217	114	586	2.5	*	5.7[2]	5.7	0.0
B	2,193	44	152	5.0	*	6.1[2]	6.1	0.0
C	2,694	39	159	3.3	*	7.4[2]	7.4	0.0
D	2,841	30	116	4.5	*	8.6[2]	8.8	0.2
E	3,065	35	146	3.6	*	9.5[2]	9.7	0.2
F	3,946	109	451	1.2	13.3	13.3	13.9	0.6
G	4,288	115	497	1.1	13.4	13.4	13.9	0.5
H	4,468	99	329	1.6	13.4	13.4	13.9	0.5
I	4,645	55	201	2.6	14.6	14.6	15.4	0.8
J	4,821	38	188	2.2	14.9	14.9	15.6	0.7
K	5,006	38	172	2.4	15.4	15.4	16.1	0.7
L	5,174	8	56	7.3	15.5	15.5	16.5	1.0
M	5,312	11	78	3.6	17.3	17.3	17.8	0.5
N	5,435	10	77	3.6	17.8	17.8	18.3	0.5
O	5,507	10	84	3.3	17.9	17.9	18.4	0.5
P	7,134	9	84	3.4	19.7	19.7	19.9	0.2
Q	7,220	14	67	5.4	19.7	19.7	19.9	0.2
R	11,405	32	116	1.1	27.3	27.3	27.3	0.0
S	11,730	28	108	0.3	27.3	27.3	27.3	0.0
T	12,121	24	78	0.4	27.3	27.3	27.3	0.0
U	13,862	21	81	0.5	31.5	31.5	31.5	0.0

[1]Feet above mouth

[2]Elevation computed without consideration of backwater effects from Town River Bay

*Controlled by coastal flooding – see Flood Insurance Rate Map for regulatory base flood elevation

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TOWN BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	14,157	70	128	2.2	31.5	31.5	31.6	0.1
W	15,007	51	112	1.5	32.3	32.3	32.4	0.1
X	15,451	13	42	3.9	32.8	32.8	32.9	0.1
Y	16,191	11	21	7.9	33.7	33.7	33.7	0.0
Z	17,035	22	46	2.4	40.7	40.7	40.9	0.2
AA	17,245	12	33	3.4	41.2	41.2	41.4	0.2
AB	17,689	23	39	2.3	42.8	42.8	42.9	0.1
AC	18,147	13	15	6.0	46.1	46.1	46.1	0.0
AD	18,373	24	44	2.0	47.3	47.3	47.3	0.0
AE	18,755	27	42	1.3	47.9	47.9	47.9	0.0
AF	18,804	25	40	1.3	47.9	47.9	47.9	0.0
AG	19,978	650	9,532	0.0	80.1	80.1	80.1	0.0
AH	20,931	228	1,354	0.3	80.1	80.1	80.1	0.0
AI	21,455	52	169	1.7	80.1	80.1	80.1	0.0
AJ	21,582	37	126	2.3	80.6	80.6	80.6	0.0
AK	21,825	25	65	4.4	80.9	80.9	80.9	0.0
AL	22,232	18	52	5.5	83.8	83.8	83.8	0.0
AM	22,523	41	81	3.5	86.0	86.0	86.0	0.0
AN	22,744	25	75	3.8	86.8	86.8	86.8	0.0
AO	22,890	30	104	2.8	87.2	87.2	87.2	0.0
AP	23,133	33	100	2.9	87.8	87.8	87.8	0.0

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TOWN BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AQ	23,734	28	90	3.2	88.9	88.9	89.0	0.1
AR	23,861	26	93	3.1	90.3	90.3	90.4	0.1
AS	23,985	23	81	3.5	90.5	90.5	90.6	0.1
AT	24,159	37	156	1.8	91.4	91.4	91.6	0.2
AU	24,338	41	168	1.7	91.5	91.5	91.7	0.2
AV	24,704	36	198	1.4	93.7	93.7	93.9	0.2
AW	24,927	59	297	0.2	93.7	93.7	93.9	0.2
AX	25,122	46	275	0.2	93.8	93.8	94.0	0.2
AY	25,505	37	196	0.3	93.8	93.8	94.0	0.2
AZ	26,074	25	97	0.6	94.4	94.4	94.7	0.3
BA	26,206	14	75	0.8	94.4	94.4	95.3	0.9

[1]Feet above mouth

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TOWN BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	102	690	1.9	80.6	80.6	80.7	0.1
B	121	81	275	5.1	80.6	80.6	80.6	0.0
C	824	195	844	1.7	81.8	81.8	82.4	0.6
D	1,526	42	150	8.6	88.9	88.9	88.9	0.0
E	1,816	139	695	2.0	95.9	95.9	95.9	0.0
F	2,161	176	693	2.0	96.3	96.3	97.3	1.0
G	2,771	78	371	3.8	99.0	99.0	100.0	1.0
H	3,441	89	301	3.4	104.7	104.7	105.7	1.0
I	3,911	91	359	2.9	106.8	106.8	107.8	1.0
J	4,211	164	546	1.9	107.8	107.8	108.8	1.0
K	4,621	84	280	3.7	112.3	112.3	113.3	1.0
L	5,261	163	593	1.8	117.8	117.8	118.8	1.0
M	5,811	158	485	2.2	119.5	119.5	120.5	1.0
N	6,711	75	237	4.4	125.6	125.6	126.6	1.0

[1]Feet above Sumner Street

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRAPHOLE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	30	64	174	3.5	128.4	128.2[2]	129.2	1.0
B	1,310	53	241	2.5	129.8	129.8	130.8	1.0
C	2,457	47	358	1.0	138.6	138.6	139.6	1.0

[1]Feet above confluence with Tributary C2

[2]Elevation computed without consideration of backwater effects from Lake Holbrook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY C2B

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,880	20	60	5.0	154.2	126.7[2]	127.7	1.0
B	2,355	18	79	3.8	157.3	157.3	158.3	1.0
C	2,470	11	34	8.9	160.4	160.4	161.4	1.0
D	3,268	43	150	1.3	168.6	168.6	169.6	1.0

[1]Feet above confluence with Trout Brook

[2]Elevation computed without consideration of backwater effects from Trout Brook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY R2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,860	10	40	6.1	139.7	139.7	140.7	1.0

[1]Feet above confluence with Trout Brook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY R3

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	798	28	44	5.6	151.0	151.0	152.0	1.0
B	953	57	81	3.1	153.0	153.0	154.0	1.0
C	1,803	29	84	3.0	158.7	158.7	159.7	1.0

[1]Feet above confluence with Trout Brook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY R4

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	200	80	253	1.2	142.7	138.9[2]	138.9	0.0
B	908	20	68	4.4	142.7	138.9[2]	139.8	0.9
C	955	37	87	3.4	142.7	139.5[2]	140.1	0.6
D	1,372	70	346	0.9	142.7	142.3[2]	142.3	0.0
E	2,592	245	580	0.5	142.7	142.4[2]	142.7	0.3
F	3,711	82	179	1.7	142.7	142.6[2]	143.5	0.9
G	4,472	29	84	3.6	143.9	143.9	144.8	0.9

[1]Feet above Access Road

[2]Elevation computed without consideration of backwater effects from Bogastow Brook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY TO GREAT BLACK SWAMP

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	460	123	320	0.9	153.7	153.0[2]	154.0	1.0
B	1,093	92	401	0.7	155.8	155.8	156.8	1.0
C	2,131	142	647	0.4	156.6	156.6	157.6	1.0

[1]Feet above confluence with Steep Hill Brook

[2]Elevation computed without consideration of backwater effects from Steep Hill Brook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY TO STEEP HILL BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	3,500	400	753	0.7	112.8	112.8	113.8	1.0
B	4,122	184	329	1.7	114.1	114.1	114.9	0.8
C	4,989	137	267	1.2	114.9	114.9	115.8	0.9
D	6,689	72	157	1.3	122.7	122.7	123.7	1.0

[1]Feet above Howard Street

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TROUT BROOK (TOWN OF AVON)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,408	50	251	1.8	107.6	105.9[2]	105.9	0.0
B	3,538	84	315	1.4	107.6	105.9[2]	105.9	0.0
C	4,541	35	142	3.2	107.6	106.1[2]	106.5	0.4
D	5,301	54	194	1.6	107.8	107.8	108.8	1.0
E	8,675	55	251	1.2	109.6	109.6	110.3	0.7
F	10,433	30	194	1.2	112.4	112.4	112.5	0.1
G	13,343	30	109	1.5	112.5	112.5	113.0	0.5

[1]Feet above confluence with Charles River

[2]Elevation computed without consideration of backwater effects from Charles River

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TROUT BROOK (TOWN OF DOVER)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	760	19[2]	46	4.1	17.4	17.4	17.4	0.0
B	898	12	23	8.0	18.1	18.1	18.1	0.0
C	998	5	19	10.0	20.2	20.2	20.2	0.0
D	1,119	22	109	1.7	23.3	23.3	23.4	0.1
E	1,241	8	30	6.2	23.3	23.3	23.4	0.1
F	1,331	11	31	6.1	23.9	23.9	24.2	0.3
G	1,420	14	25	7.5	24.4	24.4	24.4	0.0
H	1,510	16	81	2.3	28.7	28.7	28.7	0.0
I	1,610	20	85	2.2	28.7	28.7	28.7	0.0
J	2,196	6	30	6.2	30.2	30.2	30.2	0.0
K	2,920	8	41	4.5	30.9	30.9	31.3	0.4
L	3,020	19	67	2.8	31.2	31.2	31.5	0.3
M	3,881	56	253	0.7	31.7	31.7	32.2	0.5
N	4,462	4	30	6.3	33.9	33.9	34.4	0.5
O	5,512	880[2]	5,550	0.1	34.7	34.7	35.1	0.4

[1]Feet above confluence with Straits Pond

[2]Width extends beyond Norfolk County

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TURKEY HILL RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	550	50	247	2.2	163.9	163.9	163.9	0.0
B	660	60	569	1.0	169.7	169.7	170.7	1.0
C	1,150	60	321	1.7	169.7	169.7	170.7	1.0
D	1,200	50	102	5.3	170.1	170.1	170.7	0.6
E	1,480	80	293	1.8	171.6	171.6	172.0	0.4
F	2,950	175	558	1.0	172.1	172.1	172.9	0.8
G	3,800	175	572	0.9	172.2	172.2	173.2	1.0
H	4,600	80	63	4.5	174.2	174.2	174.7	0.5
I	5,100	30	69	4.1	180.6	180.6	180.8	0.2
J	5,170	30	199	1.4	185.0	185.0	185.1	0.1
K	5,820	30	42	6.8	190.4	190.4	191.2	0.8
L	5,970	30	82	3.5	194.9	194.9	195.2	0.3
M	6,030	30	50	5.7	195.6	195.6	195.7	0.1
N	7,200	100	601	0.4	199.0	199.0	199.8	0.8
O	7,245	100	786	0.3	199.0	199.0	199.8	0.8
P	7,650	100	390	0.6	199.0	199.0	199.8	0.8

[1]Feet above Lake Mirimichi culvert

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TURTLE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	158	10	10	7.6	117.9	117.9	117.9	0.0
B	317	50	80	1.0	120.1	120.1	120.2	0.1
C	433	10	20	3.8	120.7	120.7	121.0	0.3
D	792	5	10	7.6	129.4	129.4	130.4	1.0
E	845	5	40	1.9	129.4	129.4	130.4	1.0
F	1,742	5	10	7.6	152.6	152.6	153.0	0.4
G	1,795	5	10	7.6	154.5	154.5	155.4	0.9
H	1,954	5	10	7.6	164.6	164.6	165.6	1.0
I	2,006	150	530	0.1	164.6	164.6	165.6	1.0

[1]Feet above confluence with Mary Lee Brook

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: UNNAMED TRIBUTARY TO MARY LEE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CQ[2]	63,406	224	1,255	0.8	155.1	155.1	156.0	0.9
CR	63,831	151	735	1.4	155.1	155.1	156.1	1.0
CS	64,479	80	405	2.5	155.6	155.6	156.4	0.8
CT	64,595	33	304	3.3	157.7	157.7	158.4	0.7
CU	65,254	85	786	1.3	157.8	157.8	158.7	0.9

[1]Feet above confluence with Rumford River

[2]Cross sections A-CP (Bristol County, Massachusetts) in floodway data tables for other counties

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: WADING RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,160	*	14	6.8	20.4	20.4	20.4	0.0
B	2,640	60	173	0.5	31.1	31.1	31.1	0.0
C	2,767	250	748	0.2	31.1	31.1	31.3	0.2

[1]Feet above confluence with The Gulf

*Floodway contained in channel

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: WALNUT HILL STREAM

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
E[2]	2,422	57	105	1.7	186.3	186.3	187.1	0.8
F	2,592	12	43	4.3	188.9	188.9	189.7	0.8
G	2,879	275	466	0.4	189.2	189.2	190.1	0.9
H	3,118	227	151	1.2	189.9	189.9	190.2	0.3
I	3,176	18	27	6.7	191.6	191.6	191.6	0.0
J	3,204	143	129	1.4	192.5	192.5	192.5	0.0
K	3,229	121	101	1.8	192.4	192.4	192.5	0.1
L	3,334	36	53	3.5	192.8	192.8	192.9	0.1
M	3,390	43	66	2.8	193.2	193.2	193.2	0.0
N	3,775	56	101	1.8	194.0	194.0	194.1	0.1
O	4,602	18	26	6.9	196.6	196.6	196.7	0.1
P	4,893	54	95	1.9	198.5	198.5	198.5	0.0
Q	4,964	56	100	1.8	198.6	198.6	198.6	0.0
R	5,045	58	105	1.7	198.7	198.7	198.7	0.0
S	5,064	58	106	1.7	198.7	198.7	198.7	0.0
T	5,367	63	122	1.5	199.0	199.0	199.0	0.0
U	5,488	45	76	2.4	200.1	200.1	200.1	0.0
V	5,651	18	47	3.9	200.5	200.5	200.5	0.0
W	5,702	27	84	2.2	200.7	200.7	201.3	0.6

[1]Feet above confluence with Ten Mile River

[2]Cross sections A-D (Bristol County, Massachusetts) in floodway data tables for other counties

TABLE 23

FEDERAL EMERGENCY MANAGEMENT AGENCY

NORFOLK COUNTY, MA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: WHITING POND BYPASS

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

[Not Applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified on each transect based on the results from the onshore wave hazard analyses. Between transects, elevations were interpolated using topographic maps, land-use and land-cover data, and knowledge of coastal flood processes to determine the aerial extent of flooding. Sources for topographic data are shown in Table 22.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1% annual chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.

- The *wave runup zone* occurs where the (eroded) ground profile is 3.0 feet or more below the 2-percent wave runup elevation.

- The *wave overtopping splash zone* is the area landward of the crest of an overtopped barrier, in cases where the potential 2-percent wave runup exceeds the barrier crest elevation by 3.0 feet or more.

- The *breaking wave height zone* occurs where 3-foot or greater wave heights could occur (this is the area where the wave crest profile is 2.1 feet or more above the total stillwater elevation).

- The *high-velocity flow zone* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv^2) is greater than or equal to 200 ft^3/sec^2. This zone may only be used on the Pacific Coast.

The SFHA boundary indicates the limit of SFHAs shown on the FIRM as either “V” zones or “A” zones.

Table 25 indicates the coastal analyses used for floodplain mapping and the criteria used to determine the inland limit of the open-coast Zone VE and the SFHA boundary at each transect.

Table 25: Summary of Coastal Transect Mapping Considerations

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
1		*	VE 14 AE 12-14	Wave height	SWEL
2		*	VE 15-16 AE 13-15	Wave height	SWEL
3		*	VE 16 AE 14-16	Wave height	SWEL
4		*	VE 15 AE 13-15	Wave height	SWEL
5		*	VE 15-16 AE 12-15	Wave height	SWEL
6		*	VE 14-17 AE 14	Wave height	SWEL
7		*	VE 13-16 AE 13	Wave height	SWEL
8		*	VE 14-16 AE 12-14	Wave height	SWEL
9		*	VE 14-16 AE 12-14	Wave height	SWEL
10		*	VE 15-17 AE 13-15	Wave height	SWEL
11		*	VE 14-17 AE 12-14	Wave height	SWEL
12		*	VE 15-18 AE 13-15	Wave height	SWEL
13		*	VE 14-15 AE 12-14	Wave height	SWEL
14		*	VE 15-18 AE 13-15	Wave height	SWEL
15		*	VE 14-16 AE 12-14	Wave height	SWEL
16		*	VE 16	Wave height	SWEL
17		*	VE 16	Wave height	SWEL
18		*	VE 16 AE 14-16	Wave height	SWEL

*Not computed for this Flood Risk Project

Table 25: Summary of Coastal Transect Mapping Considerations

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
19		*	VE 15 AE 13-15	Wave height	SWEL
20		*	VE 16 AE 14-16	Wave height	SWEL
21		*	VE 15 AE 13-15	Wave height	SWEL
22		*	VE 15 AE 13-15	Wave height	SWEL
23		*	VE 16 AE 14-16	Wave height	N/A
24		*	VE 15 AE 13-15	Wave height	SWEL
25		*	VE 15-16 AE 14-15	Wave height	SWEL
26		*	VE 16	Wave height	SWEL
27A		*	VE 16 AE 14-16	Wave height	SWEL
27B		VE 13	VE 12-13 AE 10-12	Wave height	SWEL
28		VE 13	VE 12-13 AE 10-12	Wave height	SWEL
29		VE 12	VE 12 AE 10-12	Wave height	SWEL
30		VE 13	VE 12-13 AE 10-12	Wave height	SWEL
31		VE 14	VE 14; 12-13 AE 10-12	Wave height	SWEL
32		VE 14	VE 13-14 AE 11-13	Wave height	SWEL
33		VE 22	VE 22; 15-18 AE 10-15	Wave height	SWEL
34		VE 15	VE 12-15 AE 10-12	Wave height	SWEL

*Not computed for this Flood Risk Project

Table 25: Summary of Coastal Transect Mapping Considerations

Coastal Transect	Primary Frontal Dune (PFD) Identified	Wave Runup Analysis	Wave Height Analysis	Zone VE Limit	SFHA Boundary
		Zone Designation and BFE (ft NAVD88)	Zone Designation and BFE (ft NAVD88)		
35		VE 20	VE 20; 12-15 AE 10-12	Wave height	SWEL
36		VE 16	VE 13-16	Wave height	N/A
37		VE 24	VE 24; 13-15 AE 12-14	Wave height	SWEL
38		VE 18	VE 18; 13-15 AE 11-13	Wave height	SWEL
39		VE 13	VE 12-13 AE 10-12	Wave height	SWEL
40		VE 21	VE 21 AE 10	Wave height	Overtopping
41		VE 26	VE 26	Wave height	SWEL
42		VE 19.8	VE 19-20 AE 10 AO 3	Wave height	SWEL
43		VE 24	VE 24	Wave height	SWEL
44		VE 20.9	AE 11	Wave height	SWEL
45		VE 21.9	AE 12	Wave height	SWEL
46		VE 23.1	VE 12-17 AE 11-13	Wave height	SWEL
47		VE 20	VE 16-20	Wave height	SWEL
48		VE 29	VE 20 AO 3	Wave height	N/A
49		VE 21.2	VE 17 AE 11 AO 2	Wave height	N/A
50		VE 25.5	VE 16	Wave height	SWEL
51		VE 35.7	VE 18	Wave height	SWEL

A LiMWA boundary has also been added in coastal areas subject to wave action for use by local communities in safe rebuilding practices. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave.

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. A LOMA cannot be issued for properties located on the PFD (primary frontal dune).

To obtain an application for a LOMA, visit 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.

For more information about how to apply for a LOMA, call the FEMA Map Information 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 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 Map Information 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.

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 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 Map Information 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 Norfolk County FIRM are listed in Table 26. Please note that this table only includes LOMCs that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 26: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)
18-01-1423P	6/13/2019	Mother Brook	25021C0043F, 25021C0044F, 25021C0181F, 25021C0182F
18-01-0235P	1/23/2018	Atlantic Ocean, Quincy Bay, Town River Bay, Hingham Bay, Weymouth Fore River	25021C0088G, 25021C0089F[1]
18-01-0232P	1/19/2018	Weymouth Fore River	25021C0227G
18-01-0033P	11/9/2018	Furnace Brook	25021C0069G

[1]Although a portion of LOMR 18-01-0235P falls within the scope of this map revision, panel 25021C0089F was not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panel 25021C0089F.

Table 26: Incorporated Letters of Map Change

Case Number	Effective Date	Flooding Source	FIRM Panel(s)
16-01-2803P	3/13/2017	Atlantic Ocean, Quincy Bay, Dorchester Bay, Black Creek, and Neponset River	25021C0066F[2], 25021C0067F[2], 25021C0069G, 25021C0086F[2], 25021C0088G
16-01-0647P	3/1/2017	Atlantic Ocean, Quincy Bay, Town River Bay, Hingham Bay, Weymouth Fore River	25021C0069G, 25021C0088G, 25021C0089F[3], 25021C0226G, 25021C0227G
15-01-2574P	9/29/2016	Weymouth Fore River	25021C0227G
15-01-0874P	8/21/2015	Dorchester Bay	25021C0066F[4], 25021C0067F[4], 25021C0068G, 25021C0069G, 25021C0088G, 25021C0089F[4]
12-01-2415P	3/11/2013	Billings Brook, Billings Brook Branch, Unnamed Brook to Foxborough	25021C0351F, 25021C0353F, 25021C0354E[5]

[2]Although a portion of LOMR 16-01-2803P falls within the scope of this map revision, panels 25021C0066F, 25021C0067F, and 25021C0086F were not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panels 25021C0066F, 25021C0067F, and 25021C0086F.

[3]Although a portion of LOMR 16-01-0647P falls within the scope of this map revision, panel 25021C0089F was not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panel 25021C0089F.

[4]Although a portion of LOMR 15-01-0874P falls within the scope of this map revision, panels 25021C0066F, 25021C0067F, and 25021C0089F were not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panels 25021C0066F, 25021C0067F, and 25021C0089F.

[5]Although a portion of LOMR 12-01-2415P falls within the scope of this map revision, panel 25021C0354E was not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panel 25021C0354E.

6.5.4 Physical Map Revisions

Physical Map Revisions (PMRs) are 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 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 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 Norfolk County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBMs) 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 Flood Hazard Boundary Map (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 Physical Map Revisions (PMR) 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 Norfolk County FIRMs in countywide format was 07/17/2012.

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)
Avon, Town of	06/21/1974	06/21/1974	07/30/1976	05/15/1980	99/99/9999 07/17/2012 09/20/1995
Bellingham, Town of	06/28/1974	06/28/1974	04/08/1977	12/15/1982	99/99/9999 07/17/2012
Braintree, Town of	08/02/1974	08/02/1974	12/17/1976	06/01/1978	99/99/9999 06/09/2014 07/17/2012 12/20/2000 11/19/1986
Brookline, Town of	08/09/1974	08/09/1974	N/A	05/02/1977	99/99/9999 07/17/2012 11/28/1980
Canton, Town of	09/13/1974	09/13/1974	N/A	04/03/1978	99/99/9999 06/04/1987
Cohasset, Town of	08/02/1974	08/02/1974	10/29/1976	09/29/1986	99/99/9999 07/06/2021 07/17/2012 07/02/1992
Dedham, Town of	09/06/1974	09/06/1974	02/11/1977	12/01/1978	99/99/9999 07/17/2012 08/13/1982
Dover, Town of	09/20/1974	09/20/1974	09/17/1976	06/18/1980	99/99/9999 07/17/2012 06/04/1987

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)
Foxborough, Town of	07/26/1974	07/26/1974	08/13/1976	12/15/1979	99/99/9999 07/16/2015 07/17/2012
Franklin, Town of	09/20/1974	09/20/1974	11/05/1976	02/17/1982	99/99/9999 07/17/2012
Holbrook, Town of	04/28/1972	04/28/1972	07/01/1974	01/02/1976	99/99/9999 07/17/2012 04/05/2001 02/02/1996 07/15/1988
Medfield, Town of	09/06/1974	09/06/1974	07/23/1976	07/16/1979	99/99/9999 07/17/2012
Medway, Town of	08/09/1974	08/09/1974	09/10/1976	06/18/1980	99/99/9999 07/17/2012
Millis, Town of	07/19/1974	07/19/1974	08/06/1976	07/02/1980	99/99/9999 07/17/2012 08/05/1985
Milton, Town of	06/28/1974	06/28/1974	10/22/1976	04/03/1978	99/99/9999 06/09/2014 07/17/2012
Needham, Town of	04/13/1973	N/A	N/A	04/13/1973	99/99/9999 07/17/2012 06/05/1989 08/20/1976 03/19/1976 07/01/1974
Norfolk, Town of	08/07/1970	N/A	N/A	08/07/1970	99/99/9999 07/17/2012 08/19/1985 10/29/1976 07/01/1974
Norwood, Town of	08/16/1974	08/16/1974	06/21/1977	02/01/1980	99/99/9999 07/17/2012
Plainville, Town of	08/16/1974	08/16/1974	07/30/1976	07/02/1981	99/99/9999 07/16/2015 07/17/2012

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)
Quincy, City of	09/21/1973	N/A	N/A	09/21/1973	99/99/9999 06/09/2014 07/17/2012 05/16/2006 04/15/1992 12/04/1985 07/30/1976 07/01/1974
Randolph, Town of	06/21/1974	06/21/1974	N/A	05/01/1978	99/99/9999 06/09/2014 07/17/2012 08/09/2000 06/04/1987 10/03/1980
Sharon, Town of	10/18/1974	10/18/1974	N/A	09/29/1978	99/99/9999 07/17/2012
Stoughton, Town of	08/02/1974	08/02/1974	06/21/1977	06/01/1982	99/99/9999 07/17/2012
Walpole, Town of	09/30/1977	N/A	N/A	09/30/1977	99/99/9999 07/17/2012 11/18/1988 03/24/1978
Wellesley, Town of	06/21/1974	06/21/1974	02/11/1977	09/05/1979	99/99/9999 07/17/2012
Westwood, Town of	11/02/1973	N/A	N/A	11/02/1973	99/99/9999 07/17/2012 06/17/2002 04/17/1984 08/20/1982 01/30/1976 07/01/1974
Weymouth, Town of	06/14/1974	06/14/1974	10/01/1976	09/30/1980	99/99/9999 06/09/2014 07/17/2012 08/19/1991 06/05/1989
Wrentham, Town of	07/19/1974	07/19/1974	02/04/1977	07/05/1982	99/99/9999 07/16/2015 07/17/2012

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
Abbott Run (upper)	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Wrentham, Town of
Abbott Run Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Plainville, Town of
Arnolds Brook	6/15/1982	Vollmer Associates	H-4792	July 1980	Bellingham, Town of
Beaver Brook (Avon)	11/15/1979	Sverdrup & Parcel	H-4037	March 1978	Avon, Town of
Beaver Brook (Bellingham) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Bellingham, Town of
Beaver Brook (Bellingham) (detailed)	6/15/1982	Vollmer Associates	H-4792	July 1980	Bellingham, Town of
Beaver Brook (Bellingham) Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Bellingham, Town of
Beaver Brook (Holbrook)	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Beaver Brook (Sharon) (approximate) (lower)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Sharon, Town of
Beaver Brook (Sharon) (detailed)	3/29/1978	Harris-Toups Associates	H-4024	June 1977	Sharon, Town of
Beaver Brook (Sharon) Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Sharon, Town of
Beaver Meadow Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Beaver Meadow Brook (detailed)	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Beaver Meadow Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of
Beth Road flooding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of
Billings Brook	3/29/1978	Harris-Toups Associates	H-4024	June 1977	Sharon, Town of
Billings Brook Branch	3/29/1978	Harris-Toups Associates	H-4024	June 1977	Sharon, Town of
Blue Hill River (lower)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of; Canton, Town of; Milton, Town of; Quincy, City of; Randolph, Town of
Blue Hill River (upper)	9/9/9999	CDM	HSFE60-15-D-003	March 2018	Canton, Town of
Blue Hill River Tributary A and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Randolph, Town of
Blue Hills Reservoir	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Quincy, City of
Bodwell Street ponding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Avon, Town of
Bogastow Brook	8/5/1985	Schoenfeld Associates	EMW-C-0280	January 1983	Millis, Town of
Bogastow Brook Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Millis, Town of
Bogle Brook 2	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wellesley, Town of
Bolivar Pond	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Boulder Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wellesley, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Boulder Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wellesley, Town of
Bouncing Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of; Quincy, City of
Bound Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-15-X-0043	May 2017	Cohasset, Town of
Brook A (Stetson Brook)	6/4/1987	CDM	EMW-84-R-1601	November 1985	Randolph, Town of
Brook B	6/4/1987	CDM	EMW-84-R-1601	November 1985	Randolph, Town of
Brook No. 1	1/2/1981	USGS	IAA-H-9-77	January 1979	Plainville, Town of
Bubbling Brook	6/17/2002	HWRE	EMB-96-CO-0406	January 2001	Norwood, Town of; Walpole, Town of; Westwood, Town of
Buckmaster Brook	11/2/1973	unknown	unknown	November 1973	Westwood, Town of
Bungay Brook	6/15/1982	Vollmer Associates	H-4792	July 1980	Bellingham, Town of
Bungay Brook (upper)	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Bellingham, Town of; Wrentham, Town of
Bungay Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Wrentham, Town of
Burnt Swamp Brook	1/5/1982	Vollmer Associates	H-4792	February 1980	Wrentham, Town of
Callahan Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Norfolk, Town of
Canoe River (Foxborough)	12/15/1979	Sverdrup & Parcel	H-4037	March 1978	Foxborough, Town of
Canoe River (Sharon)	3/29/1978	Harris-Toups Associates	H-4024	June 1977	Sharon, Town of
Canton River	9/9/9999	CDM	HSFE60-15-D-003	March 2018	Canton, Town of
Caroline Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wellesley, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Caroline Brook (detailed)	N/A	unknown	unknown	July 2008	Wellesley, Town of
Centre Street pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of
Charles River	9/9/9999	USGS	HSFE01-14-X-0075	June 2017	Wellesley, Town of
Charles River (Lower Reach)	6/15/1982	Vollmer Associates	H-4792	July 1980	Dedham, Town of; Dover, Town of; Needham, Town of; Wellesley, Town of
Charles River (Upper Reach)	6/15/1982	Vollmer Associates	H-4792	July 1980	Bellingham, Town of; Dover, Town of; Franklin, Town of; Medfield, Town of; Medway, Town of; Millis, Town of; Norfolk, Town of
Charles River Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of; Medway, Town of; Wellesley, Town of
Chicken Brook	9/9/9999	USGS	HSFE01-14-X-0075	June 2017	Medway, Town of
Coastal Tributary E	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of
Cobb's Brook	unknown	NRCS	IAA-H-18-75	December 1975	Walpole, Town of
Cochato River	7/5/2001	Green International	EMB-96-CO-0403	July 1998	Braintree, Town of; Holbrook, Town of; Randolph, Town of
Coon Hollow Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Milton, Town of
Cranberry Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of; Holbrook, Town of
Cress Brook	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Cress Brook Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Norfolk, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Crocker Brook	1/5/1982	Vollmer Associates	H-4792	February 1980	Wrentham, Town of
Cunningham Brook	12/4/1985	USACE	unknown	July 1983	Quincy, City of
Danielson Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medfield, Town of
Diamond Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Sharon, Town of; Walpole, Town of
Diamond Brook (detailed)	11/18/1988	Schoenfeld Associates	EMW-C-0280	May 1985	Walpole, Town of
Dix Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of
Dorchester Brook	12/1/1981	Sverdrup & Parcel	H-4037	October 1978	Stoughton, Town of
Duck Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Randolph, Town of
Edwards Road pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Foxborough, Town of
Ellias Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Farm River	11/19/1986	PRC Harris	M010	January 1984	Braintree, Town of
Forge Pond	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Franklin Street pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wrentham, Town of
Fuller Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wellesley, Town of
Fuller Brook (detailed)	3/5/1979	CDM	H-3861	November 1972	Wellesley, Town of
Fuller Brook Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Needham, Town of; Wellesley, Town of
Furnace Brook	12/4/1985	USACE	unknown	October 1976	Quincy, City of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Germany Brook	6/1/1979	Harris-Toups Associates	H-4024	July 1977	Norwood, Town of; Westwood, Town of
Glovers Brook	6/4/1987	CDM	EMW-84-R-1601	November 1985	Randolph, Town of
Granite Plaza rail flooding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Quincy, City of
Hales Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of
Harlow Pond Lateral	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Hawes Brook	6/1/1979	Harris-Toups Associates	H-4024	July 1977	Norwood, Town of
Hawthorne Brook	1/2/1981	USGS	IAA-H-9-77	January 1979	Plainville, Town of
Herring Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Herring Brook (detailed)	6/5/1989	Dewberry & Davis	EMW-85-C-2044	September 1987	Weymouth, Town of
Herring Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Hopedale Street ponding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Quincy, City of
Hopping Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medway, Town of
Hopping Brook (detailed)	12/18/1979	C.E. Maguire, Inc.	H-4523	November 1978	Bellingham, Town of; Medway, Town of
Hopping Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medway, Town of
Houghtons Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Milton, Town of
Jackson Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dedham, Town of
James Brook (approximate)	9/9/9999	USGS	HSFE01-15-X-0043	May 2017	Cohasset, Town of
James Brook (detailed)	6/4/1987	PRC Harris	H-4776	August 1983	Cohasset, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Kingsbury Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medfield, Town of
Lake Archer and outlet	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wrentham, Town of
Lake Holbrook	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Lake Waban	3/5/1979	CDM	H-3861	November 1977	Wellesley, Town of
Liberty Street ponding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of
Lily Pond Stream	6/4/1987	PRC Harris	H-4776	August 1983	Cohasset, Town of
Lowder Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dedham, Town of; Westwood, Town of
Mann Pond Lateral	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Martha Jones pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Westwood, Town of
Martin Brook	6/4/1987	CDM	EMW-84-R-1601	November 1985	Randolph, Town of
Mary Lee Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Avon, Town of; Randolph, Town of
Mary Lee Brook (detailed)	6/4/1987	CDM	EMW-84-R-1601	November 1985	Randolph, Town of
Mary Lee Brook Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Avon, Town of; Randolph, Town of
Massachusetts Bay	7/17/2012	CDM	EME-2003-CO-0340	May 2009	Braintree, Town of; Cohasset, Town of; Weymouth, Town of
Massapoag Brook (Canton)	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Massapoag Brook (Sharon) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Sharon, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Massapoag Brook (Sharon) (detailed)	3/29/1978	Harris-Toups Associates	H-4024	June 1977	Sharon, Town of
Massapoag Lake	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
McAuliffe Road ponds	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Randolph, Town of
Meadow Brook	6/1/1979	Harris-Toups Associates	H-4024	July 1977	Norwood, Town of
Mill Brook	6/17/2002	HWRE	EMB-96-CO-0406	December 1999	Westwood, Town of
Mill River (Norfolk) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wrentham, Town of
Mill River (Norfolk) (detailed)	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Mill River (Norfolk) Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of; Norfolk, Town of; Wrentham, Town of
Mill River (Weymouth) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Mill River (Weymouth) (detailed)	6/5/1989	Dewberry & Davis	EMW-85-C-2044	September 1987	Weymouth, Town of
Mill River (Weymouth) Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of; Holbrook, Town of; Weymouth, Town of
Mill River Tributary A	6/5/1989	Dewberry & Davis	EMW-85-C-2044	September 1987	Weymouth, Town of
Mill River Tributary B	6/5/1989	Dewberry & Davis	EMW-85-C-2044	September 1987	Weymouth, Town of
Miller Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of
Miller Brook (detailed)	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Mine Brook (Franklin)	8/17/1981	Vollmer Associates	H-4792	February 1980	Franklin, Town of
Mine Brook (Franklin) Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Bellingham, Town of; Franklin, Town of
Mine Brook (Walpole) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medfield, Town of
Mine Brook (Walpole) (detailed)	unknown	NRCS	IAA-H-18-75	December 1975	Walpole, Town of
Mine Brook (Walpole) Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medfield, Town of; Walpole, Town of
Miscoe Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of; Wrentham, Town of
Mishkan Tefia swamp	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dedham, Town of
Monatiquot River	11/19/1986	PRC Harris	M010	January 1984	Braintree, Town of
Monatiquot River Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of; Weymouth, Town of
Morses Pond	3/5/1979	CDM	H-3861	November 1977	Wellesley, Town of
Mother Brook	9/29/1988	CDM	H-3861	June 1977	Dedham, Town of
Muddy River (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Brookline, Town of
Muddy River (detailed)	10/1/1983	USACE	unknown	May 1972	Brookline, Town of
Myrtle Street Lateral	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Neponset River (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Foxborough, Town of

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Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Neponset River (detailed)	9/9/9999	USGS	HSFE01-14-X-0075	June 2017	Canton, Town of; Dedham, Town of; Milton, Town of; Norwood, Town of; Sharon, Town of; Walpole, Town of; Westwood, Town of
Neponset River Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Foxborough, Town of; Walpole, Town of
Noanet Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of
Norroway Brook (approximate) (lower)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of
Norroway Brook (approximate) (upper)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Avon, Town of; Randolph, Town of; Stoughton, Town of
Norroway Brook (detailed)	11/1/1977	Anderson-Nichols & Co.	H-3707	July 1977	Randolph, Town of
Norroway Brook Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Randolph, Town of; Stoughton, Town of
North Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of; Medfield, Town of
North Holbrook swamp	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Old Swamp River (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Old Swamp River (detailed)	8/19/1991	Reis Engineering	unknown	May 1990	Weymouth, Town of
Old Swamp River Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Pecunit Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of
Pequid Brook (Lower Reach)	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Pequid Brook (Upper Reach) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of
Pequid Brook (Upper Reach) (detailed)	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Peters River	6/15/1982	Vollmer Associates	H-4792	July 1980	Bellingham, Town of
Peters River Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Bellingham, Town of
Peters River Tributary B	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Bellingham, Town of; Franklin, Town of
Peters River Tributary B1	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Bellingham, Town of; Franklin, Town of
Peters River Tributary C	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Bellingham, Town of
Pickerel Brook	unknown	NRCS	IAA-H-18-75	December 1975	Walpole, Town of
Pine Tree Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Milton, Town of
Pine Tree Brook (detailed)	4/3/1978	CDM	H-3861	October 1976	Milton, Town of
Pinewood Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Plantingfield Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Westwood, Town of
Plantingfield Brook (detailed)	6/1/1979	Harris-Toups Associates	H-4024	July 1977	Norwood, Town of
Pleasantdale Road flooding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dedham, Town of
Plymouth River	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of

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Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Plymouth River Tributary F	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Ponkapoag Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of; Randolph, Town of
Ponkapoag Brook (detailed)	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Powisett Brook and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of; Westwood, Town of
Prison Farm Lateral	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Purgatory Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Norwood, Town of
Purgatory Brook (detailed)	6/17/2002	HWRE	EMB-96-CO-0406	December 1999	Norwood, Town of; Westwood, Town of
Quick Stream (upper)	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Bellingham, Town of
Quincy Bay	6/9/2014	STARR	HSFEHQ-09-D-0370	August 2012	Quincy, City of
Rabbit Hill Brook	1/5/1982	Vollmer Associates	H-4792	February 1980	Wrentham, Town of
Rainbow Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Walpole, Town of
Rattlesnake Run (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Cohasset, Town of
Rattlesnake Run (detailed)	6/4/1987	PRC Harris	H-4776	August 1983	Cohasset, Town of
Redwing Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Redwing Brook (detailed)	12/1/1981	Sverdrup & Parcel	H-4037	October 1978	Stoughton, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Redwing Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Reservoir Pond	6/4/1987	CDM	EMW-84-C-1601	February 1986	Canton, Town of
Richardsons Brook (approximate)	9/9/9999	USGS	HSFE01-15-X-0043	May 2017	Cohasset, Town of
Richardsons Brook (detailed)	6/4/1987	PRC Harris	H-4776	August 1983	Cohasset, Town of
Richardsons Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Millis, Town of
Robinson Brook	12/15/1979	Sverdrup & Parcel	H-4037	March 1978	Foxborough, Town of
Rock Meadow Brook	11/2/1973	unknown	unknown	November 1973	Westwood, Town of
Rocky Brook	6/4/1987	CDM	EMW-84-C-1601	June 1985	Dover, Town of
Rosemary Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Needham, Town of; Wellesley, Town of
Ruckaduck Lake	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Walpole, Town of
Rumford River	12/15/1979	Sverdrup & Parcel	H-4037	March 1978	Foxborough, Town of
Sabrina Lake	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Needham, Town of; Wellesley, Town of
Sawmill Brook 3 Tributary B1	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Brookline, Town of
School Meadow Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Foxborough, Town of; Sharon, Town of; Walpole, Town of
School Meadow Brook (detailed)	3/29/1978	Harris-Toups Associates	H-4024	December 1975	Sharon, Town of; Walpole, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
School Meadow Brook Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Foxborough, Town of; Sharon, Town of; Walpole, Town of
Sevenmile River	7/16/2015	USGS	HSFE01-11-X-0083	July 2014	Plainville, Town of
Shea Drive swamp	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Sheldon Street ponding	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Quincy, City of
Shepards Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of
Shepards Brook (detailed)	8/17/1981	Vollmer Associates	H-4792	February 1980	Franklin, Town of
Shepards Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of
Smelt Brook 2 and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Braintree, Town of; Weymouth, Town of
South Brook	6/17/2002	Green International	unknown	January 2001	Westwood, Town of
St. Moritz Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Quincy, City of
Stall Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Bellingham, Town of; Medway, Town of
Stall Brook (detailed)	1/5/1984	Vollmer Associates	H-4792	July 1980	Medway, Town of
Steep Hill Brook (approximate) (lower)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of; Stoughton, Town of
Steep Hill Brook (approximate) (upper)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Steep Hill Brook (detailed)	12/1/1981	Sverdrup & Parcel	H-4037	October 1978	Stoughton, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Steep Hill Brook Tributary A and Zone A tributaries	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Steep Hill Brook Tributary B	9/9/9999	CDM	HSFE60-15-D-003	March 2018	Canton, Town of
Stevens Terrace pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Randolph, Town of
Stony Brook	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of
Stony Brook 2 Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wrentham, Town of
Stop River (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wrentham, Town of
Stop River (detailed)	2/19/1985	Schoenfeld Associates	EMW-C-0280	November 1982	Norfolk, Town of; Walpole, Town of
Stop River Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medfield, Town of
Sucker Brook	3/29/1978	Harris-Toups Associates	H-4024	June 1977	Sharon, Town of
Sylvys Brook	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Wrentham, Town of
Sylvys Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	December 2021	Wrentham, Town of
Ten Mile River	7/16/2015	USGS	HSFE01-11-X-0083	July 2014	Plainville, Town of
Timberline Drive pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Walpole, Town of
Town Brook	9/9/9999	USGS	HSFE01-14-X-0075	June 2017	Braintree, Town of; Quincy, City of
Traphole Brook (approximate) (lower)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Norwood, Town of; Sharon, Town of
Traphole Brook (approximate) (upper)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Sharon, Town of; Walpole, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Traphole Brook (detailed)	6/1/1979	Harris-Toups Associates	H-4024	July 1977	Norwood, Town of; Walpole, Town of
Traphole Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Walpole, Town of
Tributary C2	7/15/1988	Schoenfeld Associates	EMW-C-0280	July 1988	Holbrook, Town of
Tributary C2B (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Tributary C2B (detailed)	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Tributary C2B Tributary A (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Tributary C2B Tributary A (detailed)	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Tributary R1 (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Tributary R1 (detailed)	7/15/1988	Schoenfeld Associates	EMW-C-0280	July 1988	Holbrook, Town of
Tributary R2 (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Tributary R2 (detailed)	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Tributary R3	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Tributary R4 (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Tributary R4 (detailed)	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Tributary to Great Black Swamp (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medway, Town of
Tributary to Great Black Swamp (detailed)	12/18/1979	C.E. Maguire, Inc.	H-4523	November 1978	Medway, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Tributary to Great Black Swamp Tributary A1	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medway, Town of
Tributary to Steep Hill Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Tributary to Steep Hill Brook (detailed)	12/1/1981	Sverdrup & Parcel	H-4037	October 1978	Stoughton, Town of
Tributary to Steep Hill Brook Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
Trout Brook (Avon)	11/15/1979	Sverdrup & Parcel	H-4037	March 1978	Avon, Town of
Trout Brook (Dover) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of
Trout Brook (Dover) (detailed)	6/4/1987	CDM	EMW-84-C-1601	June 1985	Dover, Town of
Trout Brook (Dover) Tributary A	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dover, Town of
Trout Brook (Holbrook) (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Holbrook, Town of
Trout Brook (Holbrook) (detailed)	7/15/1988	SCS	IAA-H-9-71	May 1985	Holbrook, Town of
Trout Brook (Milton)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Milton, Town of
Trout Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Wrentham, Town of
Turkey Hill Run (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Cohasset, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Turkey Hill Run (detailed)	6/4/1987	PRC Harris	H-4776	August 1983	Cohasset, Town of
Turtle Brook	1/2/1981	USGS	IAA-H-9-77	January 1979	Plainville, Town of
Uncas Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of; Wrentham, Town of
Uncas Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Franklin, Town of
Unnamed Tributary to Mary Lee Brook	6/4/1987	CDM	EMW-84-R-1601	November 1985	Randolph, Town of
Unnamed Tributary to Robinson Brook	12/15/1979	Sverdrup & Parcel	H-4037	March 1978	Foxborough, Town of
Unquity Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Milton, Town of
Vine Brook (approximate)	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Medfield, Town of
Vine Brook (detailed)	1/16/1979	CDM	H-3861	January 1978	Medfield, Town of
Waban Brook	3/5/1979	CDM	H-3861	November 1977	Wellesley, Town of
Wading River	7/16/2015	USGS	HSFE01-11-X-0083	July 2014	Foxborough, Town of
Walker Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Millis, Town of
Walnut Hill Stream (approximate)	9/9/9999	USGS	HSFE01-15-X-0043	May 2017	Cohasset, Town of
Walnut Hill Stream (detailed)	6/4/1987	PRC Harris	H-4776	August 1983	Cohasset, Town of
Weld Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Dedham, Town of
Wellesley Water Lands	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Needham, Town of
West Mill Brook	1/16/1979	CDM	H-3861	January 1978	Medfield, Town of

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

Flooding Source	FIS Report Dated	Contractor	Number	Work Completed Date	Affected Communities
Whiting Pond Bypass	7/16/2015	USGS	HSFE01-11-X-0083	July 2014	Plainville, Town of
Whortleberry Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Weymouth, Town of
Woods Pond	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Stoughton, Town of
York Brook	9/9/9999	USGS	HSFE01-14-X-0075	April 2018	Canton, Town of; Stoughton, Town of

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
Avon, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Bellingham, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Braintree, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Brookline, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Canton, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Cohasset, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Dedham, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Dover, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Foxborough, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Franklin, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Holbrook, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Medfield, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Medway, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Millis, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Milton, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Needham, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Norfolk, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Norwood, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Plainville, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Quincy, City of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Randolph, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Sharon, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Stoughton, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Walpole, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor

Table 29: Community Meetings

Community	FIS Report Dated	Date of Meeting	Meeting Type	Attended By
Wellesley, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Westwood, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Weymouth, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
Wrentham, Town of	9/9/9999	04/14/2015	Discovery	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/10/2018	Work map	FEMA, Massachusetts Department of Conservation and Recreation, this community, and the study contractor
		07/28/2020	Final CCO	FEMA, Massachusetts Department of Conservation and Recreation, this 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.

Table 30 is a list of the locations where FIRMs for Norfolk 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
Avon, Town of	Town Hall, 65 East Main Street	Avon	MA	02322
Bellingham, Town of	Municipal Center, 10 Mechanic Street	Bellingham	MA	02019
Braintree, Town of	Town Hall, 1 John F. Kennedy Memorial Drive	Braintree	MA	02184
Brookline, Town of	Town Hall, 333 Washington Street	Brookline	MA	02445
Canton, Town of	Memorial Hall, 801 Washington Street	Canton	MA	02021
Cohasset, Town of	Town Hall, 41 Highland Avenue	Cohasset	MA	02025
Dedham, Town of	Town Hall, 450 Washington Street	Dedham	MA	02026
Dover, Town of	Town House, 5 Springdale Avenue	Dover	MA	02030
Foxborough, Town of	Town Hall, 40 South Street	Foxborough	MA	02035
Franklin, Town of	Municipal Building, 355 East Central Street	Franklin	MA	02038
Holbrook, Town of	Town Hall, 50 North Franklin Street	Holbrook	MA	02343
Medfield, Town of	Town House, 459 Main Street	Medfield	MA	02052
Medway, Town of	Town Hall, 155 Village Street	Medway	MA	02053
Millis, Town of	Veterans Memorial Building, 900 Main Street	Millis	MA	02054
Milton, Town of	Town Office Building, 525 Canton Avenue	Milton	MA	02186

Table 30: Map Repositories

Community	Address	City	State	Zip Code
Needham, Town of	Town Hall, 1471 Highland Avenue	Needham	MA	02492
Norfolk, Town of	Town Hall, 1 Liberty Lane	Norfolk	MA	02056
Norwood, Town of	Town Hall, 566 Washington Street	Norwood	MA	02062
Plainville, Town of	Town Hall, 142 South Street	Plainville	MA	02762
Quincy, City of	City Hall, 1305 Hancock Street	Quincy	MA	02169
Randolph, Town of	Town Hall, 41 South Main Street	Randolph	MA	02368
Sharon, Town of	Town Office, 90 South Main Street	Sharon	MA	02067
Stoughton, Town of	Town Hall, 10 Pearl Street	Stoughton	MA	02072
Walpole, Town of	Town Hall, 135 School Street	Walpole	MA	02081
Wellesley, Town of	Town Hall, 888 Worcester Street	Wellesley	MA	02482
Westwood, Town of	Town Hall, 580 High Street	Westwood	MA	02090
Weymouth, Town of	Town Hall, 75 Middle Street	Weymouth	MA	02189
Wrentham, Town of	Town Hall, 79 South Street	Wrentham	MA	02093

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	www.fema.gov/national-flood-insurance-program-flood-hazard-mapping/engineering-library
NFIP website	www.fema.gov/national-flood-insurance-program
NFHL Dataset	msc.fema.gov

Table 31: Additional Information

Other Federal Agencies	
USGS website	www.usgs.gov
Hydraulic Engineering Center website	www.hec.usace.army.mil
State Agencies and Organizations	
State NFIP Coordinator	Joy Duperault Department of Conservation and Recreation 251 Causeway Street, 8th floor Boston, Massachusetts 02114 (617) 626-1406 joy.duperault@state.ma.us
State GIS Coordinator	Neil MacGaffey MassGIS Director 1 Ashburton Place, Room 819 Boston, Massachusetts 02108 (617) 626-4400 massgismail@mass.gov

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
Aerial Survey 2001	Aerial Survey & Photo, Inc.	*Contour Interval 2 feet*			April 20, 2001	
Avis 1978	Avis Airmap, Inc.	*Topographic Maps compiled from aerial photographs, Scale 1:4,800, Contour Interval 5 Feet: Town of Cohasset, Massachusetts*			1978	
Avis 1979	Avis Airmap, Inc.	*Aerial Maps, Scale 1:4,800, Contour Interval 5 Feet, City of Quincy, Massachusetts*			1979	
Avis 1980a	Avis Airmap, Inc., of Braintree, Massachusetts	*Aerial Photographs, Scale 1:4,800, Contour Interval 5 feet: Holbrook, Massachusetts*			December 1980	
Avis 1980b	Avis Airmap, Inc.	*Aerial Photography, Scale 1:4,800, Contour Interval 5 Feet: Walpole, Massachusetts*			December 1980	
Bent 2006	Interagency Sedimentation Conference	*Equations for estimating bankfull channel geometry and discharge for streams in the northeastern United States*	Gardner C. Bent	Reno, Nevada	April 2-6, 2006	http://pubs.usgs.gov/misc_reports/FISC_1947-2006/pdf/1st-7thFISCs-CD/8thFISC/Poster_Bent_AbstractOnly.pdf
Brunner 2010	U.S. Army Corps of Engineers	*HEC-RAS River Analysis System User's Manual, Version 4.1*	Gary W. Brunner	Davis, CA	2010	

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
Cohn 1997	Water Resources Research	*An algorithm for computing moments-based flood quantile estimates when historical flood information is available*	T.A. Cohn, W.M. Lane, W.G. Baier		1997	
Cohn 2001	Water Resources Research	*Confidence intervals for expected moments algorithm flood quantile estimates*	T.A. Cohn, W.M. Lane, J.R. Stedinger		2001	
Cohn et al. 2012	U.S. Geological Survey	*Fact Sheet 2012-3038: Calculating weighted estimates of peak streamflow statistics*	T.A. Cohn, Charles Berenbrock, J.E. Kiang, and R.R. Mason		2012	http://pubs.usgs.gov/fs/2012/3038
Fair et al. 1966	John Wiley & Sons, Inc.	*Water and Wastewater Engineering*	G.M. Fair, J.C. Geyer, and D.A. Okun	New York	1966	
FEMA 1977	Federal Emergency Management Agency	*Flood Insurance Study, Town of Braintree, Norfolk County, Massachusetts*		Washington, D.C.	June 1, 1978	
FEMA 1987	FEMA	*Flood Insurance Study, Town of Canton, Norfolk County, Massachusetts*		Washington, D.C.	3-Apr-78	
FEMA 1988	Federal Emergency Management Agency	*Wave Height Analysis of Flood Insurance Studies (WHAFIS), Version 3.0*		Washington, D.C.	9/1/1988	

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
FEMA 2007a	Federal Emergency Management Agency	*Atlantic Ocean and Gulf of Mexico Coastal Guidelines Update*			February, 2007	
FEMA 2007b	Federal Emergency Management Agency	*Coastal Hazard Analysis Modeling Program (CHAMP), Version 2.0*		Washington, D.C.	August, 2007	
FEMA 2011	Federal Emergency Management Agency	*2011 Federal Emergency Management Agency (FEMA) Topographic Lidar: Massachusetts and Rhode Island*		Washington, D.C.	Sep-13	http://www.mass.gov/anf/research-and-tech/it-serv-and-support/application-serv/office-of-geographic-information-massgis/datalayers/lidar.html
FEMA undated	Federal Emergency Management Agency	*Wave Height Analysis for Flood Insurance Studies (WHAFIS), Version 4.0*		Washington, D.C.		
Franklin 2003	Town of Franklin	*Contour Interval 2 feet*			Apr-03	
Griffis 2004	Water Resources Research	*Log Pearson Type 3 quantile estimators with regional skew information and low outlier adjustments*	V.W. Griffis, J.R. Stedinger, T.A. Cohn		2004	
Guimaraes and Bohman 1992	U.S. Geological Survey	*Water-Resources Investigations Report 91-4157: Techniques for estimating magnitude and frequency of floods in South Carolina, 1988*	W.B. Guimaraes and L.R. Bohman		1992	

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
Holbrook 1966	Town of Holbrook	*Planning Study Report*	Holbrook Planning Board	Holbrook, Massachusetts	1966	
IACWD 1982	Interagency Advisory Committee on Water Data	*Bulletin 17B of the Hydrology Subcommittee: Guidelines for determining flood-flow frequency*			March 1982	http://water.usgs.gov/osw/bulletin17b/dl_flow.pdf
Jennings et al. 1993	U.S. Geological Survey	*Water Resources Investigative Report 94-4002: Nationwide Summary of U.S. Geological Survey Regional Regression Equations for Estimating Magnitude and Frequency of Floods for Ungaged Sites*	M.E. Jennings, W.O. Thomas, Jr., and H.C. Riggs		1993	
Johnson and Tasker 1974	U.S. Geological Survey	*Progress Report on Flood Magnitude and Frequency of Massachusetts Streams*	Carl G. Johnson and Gary D. Tasker		March 1974	
Johnstone and Cross 1949	Ronald Press Co.	*Elements of Applied Hydrology*	Don Johnstone and W.P. Cross	New York	1949	
Macconnell et al. 1971		*Massachusetts Map Down 1971, Land Use and Vegetative Cover Mapping*	William C. Macconnell et al.	Amherst, Massachusetts	1971	
MADPW undated	Massachusetts Department of Public Works	*Quincy-Braintree F-130 (020), Contracts A and B, Section 2, Route I-93/Route 128/Route 3*				

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
Maguire 1976	C.E. Maguire, Inc., of Waltham, Massachusetts	*Topographic Maps compiled by Photogrammetric Methods, Scale 1:1,200, Contour Interval 2 Feet: Town of Stoughton, Massachusetts*			December 1976	
Maguire 1977	C.E. Maguire, Inc. of Waltham, Massachusetts	*Topographic Maps compiled from aerial photographs, Scale 1:2,400, Contour Interval 5 Feet: Dover, Massachusetts*			April 1977	
MAOCZM 2002	Commonwealth of Massachusetts, Executive Office of Environmental Affairs and Office of Coastal Zone Management	*Massachusetts Coastal Zone Management Plan*			3/1/2002	
MassGIS 2005	MassGIS	*2005 1:5,000 Color Orthoimagery*			April, 2005	http://www.mass.gov/mgis
MDC 1956	Metropolitan District Commission	*Neponset River, Topographical Sheets, 1 Inch Equals 50 Inches*			January 1956	
MDC 1959	Metropolitan District Commission	*Mother Brook Flood Control Project, Contract No. 239*			1959	
MWRC 1971	Massachusetts Water Resources Commission	*Neponset River Basin Flood Plain and Wetland Encroachment Study*	Anderson-Nichols & Company		Apr-71	

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
NOAA 2015	National Oceanic and Atmospheric Administration	*National centers for environmental information - U.S. climate normals products*			2018	https://www.ncdc.noaa.gov/data-access/quick-links#normals
Norfolk 1926		*Norfolk County Soils Map*		Dedham, Massachusetts	1926	
Quinn 1979a	Quinn and Associates	*Topographic Maps compiled by photogrammetric methods, Scale 1"=200', Contour Interval 5 Feet: Wrentham, Massachusetts*			October 1979	
Quinn 1979b	Quinn and Associates	*Aerial Photography, Scale 1"=200', Contour Interval 5 Feet: Franklin, Massachusetts*			October 1979	
RKPC 1976	Richardson and Kalishes Planning Consultants	*Cohasset Flood Plain and Watershed Protection District Map*		Scituate, Massachusetts	November 1976	
Sauer et al. 1983	U.S. Geological Survey	*Water-Supply Paper 2207: Flood Characteristics of Urban Watersheds in the United States*	V.B. Sauer, W.O. Thomas, Jr., V.A. Stricker, and K.V. Wilson	Washington, D.C.	1983	
SCS 1920	Soil Conservation Service	*Soil Map of Massachusetts, Norfolk County*			1920	

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
SCS 1965	Soil Conservation Service	*Technical Release No. 20: Computer Program for Project Formulation – Hydrology*		Washington, D.C.	1965	
SCS 1966	Soil Conservation Service	*Survey Notes for Pine Tree Brook*			1966	
SCS 1972a	Soil Conservation Service	*National Engineering Handbook, Section 4, Hydrology, Part I, Watershed Planning*		Washington, D.C.	August 1972.	
SCS 1972b	Soil Conservation Service	*Diamond-Traphole Brooks Watershed, Work Plan for Watershed Protection and Flood Prevention*			December 1972	
SCS 1974a	Soil Conservation Service	*Technical Release No. 55: Urban Hydrology for Small Watersheds*		Washington, D.C.	March 1974	
SCS 1974b	Soil Conservation Service	*SWAMP: A Computer Program for Flood Routing Between Interconnected Storage Areas*		Amherst, Massachusetts	1974	
SCS 1975	Soil Conservation Service	*Diamond Brook Watershed, Plan for Watershed Protection and Flood Prevention*		Amherst, Massachusetts	December 1975	
SCS 1976	Soil Conservation Service	*Technical Release No. 61: WSP 2 Computer Program*		Hyattsville, Maryland	1976	

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
SCS 1982	Soil Conservation Service	*Northeastern Massachusetts Interim Soil Survey Report and associated soil maps, Scale 1:24,000*		Taunton, Massachusetts	February 1982	
SCS undated	Soil Conservation Service	*Monatiguot and Farm River Cross Sections*		Washington, D.C.		
Sewell 1984a	James Sewell, Inc., of Old Town, Maine	*Topographic Maps compiled from aerial photographs, Scale 1:4,800, Contour Interval 4 Feet: Dover, Massachusetts*			1984	
Sewell 1984b	Sewell, Inc.	*Topographic Maps compiled from aerial photographs, Scale 1:4,800, Contour Interval 4 feet: Randolph, Massachusetts*			1984	
Shearman 1976	U.S. Geological Survey	*Open File Report 76-499: Computer Program E431, User's Manual, Computer Applications for Step-Backwater and Floodway Analyses*	James O. Shearman	Washington, D.C.	1976	
STARR 2012	STARR	*Updating Tidal Profiles for the New England Coastline*			March, 2012	
Teledyne 1976	Teledyne Geotronics	*Aerial Photography and Topographic Maps, Scale 1:2,400, Contour Interval four feet: Sharon, Massachusetts*			1976	

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Teledyne undated	Teledyne Geotronics	*Aerial Photography and Topographic Mapping, Scale 1:2,400, Contour Interval four feet: Norwood, Massachusetts*				
USACE 1972	U.S. Department of the Army, Corps of Engineers	*"Design Memorandum No. 1, Hydrologic Analysis," Water Resources Development Plan, Charles River Watershed Natural Valley Storage Project*			April 1972	
USACE 1973	U.S. Army Corps of Engineers	*HEC-1 Flood Hydrograph Package*		Davis, California	January 1973	
USACE 1974	U.S. Army Corps of Engineers	*HEC-2 Water Surface Profiles, Generalized Computer Program*		Davis, California	January 1974	
USACE 1976a	U.S. Army Corps of Engineers, New England Division	*Design Memorandum No. 1: Charles River Watershed Natural Valley Storage Project*		Waltham, Massachusetts	May 1976	
USACE 1976b	U.S. Army Corps of Engineers	*Furnace Brook Local Protection, Massachusetts Coastal Streams*		Waltham, Massachusetts	October 1976	
USACE 1980	U.S. Army Corps of Engineers	*Town Brook Local Protection, Massachusetts Coastal Streams*		Waltham, Massachusetts	September 1980	

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USACE 1984	U.S. Army Corps of Engineers, Coastal Engineering Research Center	*Shore Protection Manual. (Volumes I and II, 4th Edition)*		Washington, D.C.	1984	
USACE 1985	U.S. Army Corps of Engineers	*Town Brook Local Protection Project, Quincy and Braintree, Massachusetts: Design Memorandum No. 5, Hydraulics and Water Quality*			1985	
USACE 1988	U.S. Army Corps of Engineers, Hydraulics and Water Quality Section, New England Division	*Tidal Flood Profiles New England Coastline*			September, 1988	
USACE 1988	U.S. Army Corps of Engineers	*HEC-RAS River Analysis System, Computer Program and User's Manual, Version 2.2*			September 1998	
USACE 2001	U.S. Army Corps of Engineers, Coastal and Hydraulics Laboratory	*Steady State Spectral Wave Version 3.0*			February, 2001	http://chl.erdc.usace.army.mil/
USACE 2016a	U.S. Army Corps of Engineers	*River Analysis System HEC-RAS User's Manual*		Davis, CA	2016	http://www.hec.usace.army.mil/software/hec-ras
USACE 2016b	U.S. Army Corps of Engineers	*Hydrologic Modeling System HEC-HMS User's Manual*		Davis, CA	2016	http://www.hec.usace.army.mil/software/hec-hms
USCB 2016	U.S. Census Bureau	*TIGER/Line Shapefile*			2016	

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USDA 1986	U.S. Department of Agriculture	*TR-55: Urban Hydrology for Small Watersheds*			1986	https://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1044171.pdf
USGS 1964a	U.S. Geological Survey	*7.5-Minute Series Topographic Maps, Scale 1:24,000 Contour Interval 10 feet: Mansfield, Massachusetts; Wrentham, Massachusetts*			1964	
USGS 1964b	U.S. Geological Survey	*7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Wrentham, Massachusetts; Attleboro, Massachusetts*			1964	
USGS 1970a	U.S. Geological Survey	*7.5-Minute Series Topographic Maps, Scale 1:24,000 Contour Interval 10 feet: Boston South Massachusetts (1970), Blue Hills, Massachusetts (1971), Norwood, Massachusetts (1970)*			1970/71	
USGS 1970b	U.S. Geological Survey	*7.5-Minute Series Topographic Map, Scale 1:24,000, Contour Interval 10 feet: Medfield, Massachusetts*			1970	

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USGS 1970c	U.S. Geological Survey	*7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 20 Feet: Mansfield, Massachusetts 1936, Photorevised 1964; Medfield, Massachusetts 1938, Photorevised 1970; Norwood, Massachusetts 1936, Photorevised 1970; Wrentham, Massachusetts 1938, Photorevised 1964*			1964/70	
USGS 1970d	U.S. Geological Survey	*7.5-Minute Series Topographic Maps, Scale 1:25,000, Contour Interval 10 Feet: Natick, Massachusetts 1970; Newton, Massachusetts, 1970*			1970	
USGS 1971	U.S. Geological Survey	*7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 Feet: Weymouth, Massachusetts 1971; Hull, Massachusetts 1971*			1971	
USGS 2009	U.S. Geological Survey	*USGS 2009 High Resolution Orthoimagery*			March 24, 2009 to April 26, 2009	http://www.mass.gov/mgis

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USGS 2013	U.S. Geological Survey	*USGS High Resolution Orthoimagery for Boston, Massachusetts*		Sioux Falls, SD	2013	http://nationalmap.gov/viewer.html
USGS 2014	U.S. Geological Survey	*2013-2014 U.S. Geological Survey CMGP LiDAR: Post Sandy (MA, NH, RI)*		Reston, VA	6/15/2015	http://www.mass.gov/anf/research-and-tech/it-serv-and-support/application-serv/office-of-geographic-information-massgis/datalayers/lidar.html
USGS 2015	U.S. Geological Survey	*Massachusetts 2015 QL2 Lidar*			2016	
USWB 1961	U.S. Weather Bureau	*Technical Paper No. 40: Rainfall Frequency Atlas of the United States*		Washington, D.C.	1961, revised 1963	
Wandle 1977	U.S. Geological Survey	*Water Resources Investigation Report 77-39: Estimating the Magnitude and Frequency of Floods on Natural-Flow Streams in Massachusetts*	S. W. Wandle, Jr	Washington, D.C.	1977	

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Wandle 1983	U.S. Geological Survey	*Water Supply Paper 2214: Estimating Peak Discharges of Small, Rural Streams in Massachusetts*	S. W. Wandle, Jr	Washington, D.C.	1983	
Wellesley 1973	Town of Wellesley	*Topographic Maps, Scale 1:1,200, Contour Interval 2 feet: Wellesley, Massachusetts*			1973	
WRC 1967	U.S. Water Resources Council, Hydrology Committee	*Bulletin No. 15: A Uniform Technique for Determining Flood Flow Frequencies*		Washington, D.C.,	December 1967	
WRC 1976	U.S. Water Resources Council, Hydrology Committee	*Bulletin No. 17: Guidelines for Determing Flood Flow Frequency*		Washington, D.C.,	March 1976	
Zarriello 2017	U.S. Geological Survey	*Magnitude of flood flows for selected annual exceedance probabilities for streams in Massachusetts*	Phillip J. Zarriello	Reston, VA	2017	https://doi.org/10.3133/sir20165156
Zarriello and Bent 2011	U.S. Geological Survey	*Open-File Report 2010-1315: Elevation of the March-April 2010 Flood Flows for Selected River Reaches in Central and Eastern Massachusetts*	P.J. Zarriello and G.C. Bent		2011	

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Zarriello et al. 2012	U.S. Geological Survey	*Scientific Investigations Report 2012-5109: Magnitude of flood flows for selected annual exceedance probabilities in Rhode Island through 2010*	P.J. Zarriello, E.A. Ahearn, and S.B. Levin		2012	http://pubs.usgs.gov/sir/2012/5109