

Bridge and Culvert Survey

Ompompanoosuc River & Major Tributaries

**Fairlee, Norwich, Thetford, Vershire,
and West Fairlee, Vermont**

April 2007

**Prepared by
The Two Rivers-Ottawquechee
Regional Commission
Woodstock, Vermont**

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BRIDGE AND CULVERT ASSESSMENT

A. Methods

In sum, 31 bridges, 36 culverts, and 2 arches were included in the bridge and culvert assessment in five towns in the Two Rivers-Ottawaquechee Region (see Appendix A). The geomorphic data from the bridge and culvert assessment were used to identify structures that have the potential to fail because of erosion, scour, or alignment problems, or structures that may have an impact on the stream. Sixty-three of the 69 structures surveyed were flagged on ANR's Failure Modes Report for geomorphic incompatibility. One structure at the mouth of the Ompompanoosuc River at Vermont Route 5 was not assessed because of its size.

The habitat data from the ANR bridge and culvert assessment were used to identify potential barriers to movement and migration of organism through culverts. The Wildlife Passage Report and the Culvert Aquatic Organism Passage Report from the assessment are provided in Appendix A. Nine of the 36 culverts assessed were identified as blocking aquatic organism passage, including adult salmonids, under flow conditions that existed at the time of the survey (fall, 2006).



Figure 1– Perched Outlet on Vershire Center Road

Culverts that are not properly installed, meaning those that are at or slightly below the stream's grade, block aquatic organism passage. Organisms cannot pass through these culverts because of they cannot access the outlet and then they may not be able to travel up the bare culvert bottom. Erosion or scour can also occur if the structure was

installed above grade because the water backs up at the inlet and cascades out at the outlet. Last, aggradation or sedimentation can occur upstream of the culvert, resulting in debris jams.

Culverts that are properly installed at grade allow sediment and debris to pass through more readily than culverts installed above grade, resulting in less erosion and debris jams. Organisms can negotiate these culverts because of the gravel and cobble deposits that create a more natural bed inside the structure.



Figure 2 – Natural bed, at grade, Barker Brook in Thetford

In order to assist our five member towns with priorities for replacement of these structures, TRORC developed two priority lists using the information and photographs taken during the assessment. The bridge span and the culvert diameter as a percentage of the channel width were used as a first cut in prioritizing the structures for replacement. As shown in the Tables below, a total of 26 structures have a bankfull width of less than 50%.



Figure 3 – Beaver Meadow Brook, approaching undersized culvert



Figure 4 – Inlet to culvert with 25% bankfull width on Beaver Meadow Brook

Bridges and culverts with channel widths of less than 40 percent of the bankfull width, which significantly impede natural sediment transport, or which block AOP, were placed in Category 1. Category 1 contains structures that have highest priority for replacement, primarily due to geomorphic incompatibility, erosion, scour, or alignment problems. The two photos above illustrate the nature of this problem.

Structures with channel widths of between 40 and 49 percent of the bankfull width, which impede natural sediment transport or which block AOP, were placed in Category 2. Category 2 is of lower priority for replacement, but still contains structures that may be incompatible in terms of sediment transport.

B. Results

The Bridge and Culvert Assessment indicates that 27 of the public and private culverts within the survey area are undersized and represent some degree of risk for impeding sediment transport. Of these, 15 culverts were less than 40% of the bankfull width and 12 culverts had bankfull widths of 40 to 49 percent.

The railroad trestle at the mouth of the Ompompanoosuc River at Vermont Route 5 was not assessed because of its size. It does not appear to be a barrier to organism passage nor sediment transport.

1. Category One Structures

The Category 1 structures are summarized below in Table 1. All structures in this category are culverts and are top priorities for replacement because of their size.

Table 1 – Category 1 Structures

Town	Road	Stream Name	Structure	Type	Bankfull Width Percent
Fairlee	Route 244	Blood Brook	vtrans-700028037909013	Culvert	23%
Thetford	Barker Rd	Barker Brook	vtrans-990021000909111	Culvert	35% H
Vershire	Route 113	Eagle Hollow Brook	dms-200113000109052	Culvert	37% A
Vershire	Fairbrothers Rd	Beaver Meadow Brook	vtrans-700011021009143	Culvert	35%
Vershire	Vershire Ctr Rd	Upper Schoolhouse Brook	vtrans-700003006709143	Culvert	38% A
Vershire	Mero Rd	Schoolhouse Brook Trib (Mero)	vtrans-990036001009141	Culvert	32%
Vershire	Mero Rd	Mero Brook	vtrans-700036033209143	Culvert	30%
Vershire	Ayers Rd	Lower Schoolhouse Brook	vtrans-990035000709141	Culvert	35% A
West Fairlee	Beaver Meadow Rd	Beaver Meadow Brook	dms-100020000509161	Culvert	16% A, H
West Fairlee	Beaver Meadow Rd	Beaver Meadow Brook	dms-100020000609161	Culvert	25%
West Fairlee	Middlebrook Rd	Middle Brook	vtrans-990002000409161	Culvert	37%
West Fairlee	Middlebrook Rd	Middle Brook	vtrans-990002000509161	Culvert	29% H
West Fairlee	Marsh Hill Rd	Blood Brook	vtrans-990024000709161	Culvert	33% A
West Fairlee	Beaver Meadow Rd	Beaver Meadow Brook	vtrans-990020001009161	Culvert	30% H
West Fairlee	Beaver Meadow Rd	Beaver Meadow Brook	vtrans-990020000609161	Culvert	33%

A Culvert blocks aquatic organism passage of all fish and stream salamanders including adult salmonids.

H Culvert is near houses and other infrastructure, lower in the watershed.



Figure 5 – Double culvert on Barker Brook, Thetford, with midchannel bar

This culvert on Barker Brook in Thetford is 35% of the bankfull width. This culvert is impeding the natural movement of sediment. The mid-channel bar immediately upstream of the inlet illustrates that deposition is occurring.

A. Blocked Aquatic Organism Passage

Five of the culverts that have been included as Category 1 structures were identified as blocking aquatic organism passage under flow conditions found at the time of the assessment. The following conditions must be met at the time of the assessment for a culvert to be considered to block AOP of all fish (including adult salmonids) and stream salamanders:

- The culvert outlet configuration is free fall and the invert to the water surface distance is greater than or equal to 1.0 foot; or
- The water depth in the culvert at the outlet is less than 0.3 feet.

B. Proximity to Houses in Middle and Lower Watershed

Four of the culverts that have been included as Category 1 structures were identified as high priorities for replacement because of their proximity to homes and road infrastructure. These culverts are located in the middle and lower sections of the

watershed, and because they are undersized, pose the highest risk for becoming blocked and damaging or washing out homes and the roads that serve them.

2. Category Two Structures

The Category 2 structures are summarized below in Table 2. As in Category 1, all structures in this category are culverts. Category 2 structures do not necessarily need replacement, but they should be monitored for significant upstream sediment deposition, upstream and downstream scour and erosion. Debris should be removed after the spring runoff and before the winter as well as after major storm events since these structures have smaller capacity to handle runoff with lower percentage of bankfull widths. They should be prioritized for replacement based on their condition and the amount of erosion, sedimentation, and debris jams they typically experience as well as their position on the reach and in the watershed.

Table 2 – Category Two Structures

Town	Road	Stream Name	Structure	Type	Bankfull Width Percent
Thetford	Sawnee Bean Rd	Barker Brook	dms-100021000209111	Culvert	43%
Thetford	Phelps Rd	Barker Brook	dms-100000000309111	Culvert	45%
Vershire	Vershire Ctr Rd	Main Stem Ompompanoosuc	vtrans-990003000209141	Culvert	47% *
Vershire	Mud Ln	Mud Brook	dms-70002200400914	Culvert	42%
Vershire	Vershire Ctr Rd	Vershire Center Brook	vtrans-990003000409141	Culvert	42%
Vershire	Vershire Ctr Rd	Lower Schoolhouse Brook	vtrans-700003006209143	Culvert	45%
Vershire	Eagle Hollow Rd	Eagle Hollow Brook	vtrans-700003011209143	Culvert	42%
Vershire	Mud Ln	Mud Brook trib to Vershire Ctr Bk	vtrans-700022027509143	Culvert	42%
Vershire	S Vershire Rd	Schoolhouse Brook	vtrans-990038001109141	Culvert	40%
West Fairlee	Godfrey Rd	Blood Brook	vtrans-990025001309161	Culvert	43%
West Fairlee	Scrutton Hill Rd	Middle Brook	vtrans-990005001209161	Culvert	48%
West Fairlee	Middlebrook Rd	Bear Notch Brook	vtrans-990002000309161	Culvert	49%

* Culvert blocks aquatic organism passage of all fish and stream salamanders including adult salmonids.

C. Recommendations

The Two Rivers-Ottauquechee Regional Commission is working with several towns on an infrastructure capital planning process. There are two parameters, percentage of bankfull width and if the structure has a perched outlet, allowing the structure to be flagged as geomorphically sensitive and included in a town's replacement prioritization process.

The Vermont Fish and Wildlife Department and the Agency of Natural Resources are in the process of preparing a publication for the design and construction of stream crossings that will be available for public review when complete. The Two Rivers-Ottauquechee Regional Commission recommends that the towns in this survey area acquire this design publication when available and work with the Agency of Natural Resources to provide stream crossings that offer geomorphic compatibility and passage for aquatic organisms and wildlife.

APPENDIX A

Failure Modes

F1	Concern for structure due to fluvial condition or process
F2	Potential failure due to out-flanking
F3	Potential failure due to scour
F4	Potential failure due to ice or debris jam
F5	Structure related damage due to flooding of adjacent property
F6	Structure related damage due to erosion of adjacent property

Existing Problems

P1	Upstream sediment deposit
P2	Upstream Scour and/or erosion present
P3	Downstream Scour and/or erosion present
P4	Inlet obstruction present
P5	Poor location or alignment
P6	Beaver activity
P7	Floodplain filled entirely or partially by roadway approaches

Width	Structure width divided by channel width as a percent (% bankfull width)
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#	Town	Road	Stream Name	Structure	Type	F1	F2	F3	F4	F5	F6	P1	P2	P3	P4	P5	P6	P7	Width	
1	Fairlee	ROUTE 244	Blood Brook	vtrans-700028037909013	Culvert	-	X	-	X	X	-	-	-	-	-	-	-	X	2%	
2	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700068032514113	Bridge	-	-	-	X	-	X	-	-	-	-	X	-	X	218%	
3	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700003012114113	Bridge	-	-	-	X	-	X	-	-	-	-	X	-	X	210%	
4	Norwich	ROUTE 5 N	Ompompanoosuc	vtrans-700068032414113	Bridge	-	-	-	X	-	-	-	-	-	-	-	-	X	215%	
5	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700068032314113	Bridge	-	-	-	X	-	-	-	-	-	-	-	-	X	85%	
6	Norwich	Railroad Trestle	---	dms-7000RR000109102	Bridge	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	---	%
7	Thetford	ACADEMY RD	Ompompanoosuc	vtrans-700003010914113	Bridge	-	-	-	X	-	-	-	-	-	-	-	-	X	120%	
8	Thetford	SAWNEE BEAN RD	Barker Brook	vtrans-990020001109111	Culvert	-	X	X	X	X	-	X	-	-	-	-	-	X	4%	
9	Thetford	BARKER RD	Barker Brook	vtrans-990021000909111	Culvert	-	X	X	X	X	X	X	-	-	X	-	-	X	3%	
10	Thetford	SAWNEE BEAN RD	Ompompanoosuc	dms-100020000409111	Culvert	-	X	X	X	X	X	X	X	-	-	-	-	X	4%	
11	Thetford	SAWNEE BEAN RD	Barker Brook	dms-100021000209111	Culvert	-	X	X	X	-	X	-	X	X	-	-	-	X	4%	
12	Thetford	ROUTE 113	Ompompanoosuc	vtrans-700003011014113	Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	107%	
13	Thetford	SAWNEE BEAN RD	Ompompanoosuc	vtrans-700001007414113	Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	124%	
14	Thetford	TUCKER HILL RD	Ompompanoosuc	vtrans-700001007314113	Bridge	-	-	-	X	-	X	-	-	-	X	-	-	X	163%	
15	Thetford	PHELPS RD	Barker Brook	dms-100000000309111	Culvert	-	X	X	X	X	-	X	-	X	-	-	-	X	4%	
16	Thetford	ROUTE 244	Ompompanoosuc	vtrans-700008013114113	Bridge	X	-	-	X	-	X	X	-	-	-	-	-	X	293%	
17	Vershire	ROUTE 113	Ompompanoosuc	dms-700000000109143	Bridge	-	X	-	X	-	X	X	-	-	X	-	-	-	99%	
18	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000309141	Culvert	-	X	X	X	X	X	X	-	X	X	X	-	X	5%	
19	Vershire	DURGIN HILL RD	Durgin Hill Brook	vtrans-700006017009143	Bridge	-	X	X	X	-	X	X	-	X	-	-	-	X	50%	
20	Vershire	ROUTE 113	Durgin Hill Brook	vtrans-700003011809143	Culvert	-	X	X	X	X	X	-	X	X	X	X	-	X	5%	
21	Vershire	ROUTE 113	Eagle Hollow Brook	dms-200113000109052	Culvert	-	X	X	X	X	X	X	X	X	X	-	-	X	3%	
22	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700003010609143	Bridge	-	-	-	-	-	-	-	-	-	-	-	-	X	170%	
23	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700027030009143	Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	140%	
24	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700027029709143	Bridge	-	-	-	X	-	-	X	-	-	-	-	-	X	96%	
25	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700000002409053	Bridge	-	-	-	-	-	-	-	-	-	-	-	-	X	83%	
26	Vershire	FAIRBROTHERS RD	Beaver Meadow Brook	vtrans-700011021009143	Culvert	-	X	X	X	-	X	-	-	-	-	-	-	X	3%	
27	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700009019709143	Bridge	-	-	X	-	-	-	-	X	-	-	-	-	-	124%	
28	Vershire	ROUTE 113	BEAVER MEADOW RD TRIB	vtrans-700000002309053	Arch	-	-	-	-	-	-	-	-	-	-	-	-	X	89%	
29	Vershire	VERSHIRE CTR RD	Main Stem Ompompanoosuc	vtrans-990003000209141	Culvert	-	X	X	X	-	X	X	-	X	X	-	-	-	4%	
30	Vershire	BROWN RD	Ompompanoosuc	vtrans-990017000909141	Culvert	-	X	X	X	X	-	-	-	X	-	-	-	X	6%	
31	Vershire	RICKER BRIDGE RD	Ompompanoosuc	vtrans-700003010709143	Bridge	-	X	-	X	-	-	-	-	-	-	X	-	X	90%	
32	Vershire	MUD LN	Mud Brook	dms-70002200400914	Culvert	-	X	X	X	-	X	-	-	X	X	X	-	-	3%	

Failure Modes

F1	Concern for structure due to fluvial condition or process
F2	Potential failure due to out-flanking
F3	Potential failure due to scour
F4	Potential failure due to ice or debris jam
F5	Structure related damage due to flooding of adjacent property
F6	Structure related damage due to erosion of adjacent property

Existing Problems

P1	Upstream sediment deposit
P2	Upstream Scour and/or erosion present
P3	Downstream Scour and/or erosion present
P4	Inlet obstruction present
P5	Poor location or alignment
P6	Beaver activity
P7	Floodplain filled entirely or partially by roadway approaches

Width	Structure width divided by channel width as a percent (% bankfull width)
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33	Vershire	REED RD	Vershire Center Brook	vtrans-700018024209143	Culvert	-	X	X	X	X	X	X	-	-	X	-	-	X	4%
34	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000409141	Culvert	-	X	X	X	X	X	X	X	X	X	-	-	X	4%
35	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000609141	Culvert	-	X	X	X	-	X	X	-	X	-	X	-	X	5%
36	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-700113036109143	Bridge	-	-	-	X	-	X	X	-	-	X	X	-	X	313%
37	Vershire	VERSHIRE CTR RD	Lower Schoolhouse Brook	vtrans-700003006209143	Culvert	-	X	X	X	-	X	-	-	X	-	-	-	X	4%
38	Vershire	VERSHIRE CTR RD	Upper Schoolhouse Brook	vtrans-700003006709143	Culvert	-	X	X	X	-	X	X	-	X	-	-	-	-	3%
39	Vershire	MERO RD	Schoolhouse Brook Trib (Mero)	vtrans-990036001009141	Culvert	-	X	X	X	-	X	X	X	X	-	X	-	X	3%
40	Vershire	MERO RD	Mero Brook	vtrans-700036033209143	Culvert	-	X	X	X	X	X	X	-	-	X	X	-	X	3%
41	Vershire	EAGLE HOLLOW RD	Eagle Hollow Brook	vtrans-700003011209143	Culvert	-	X	-	X	-	-	-	-	-	-	-	-	-	3%
42	Vershire	MUD LN	Bk	vtrans-700022027509143	Culvert	-	X	X	X	-	X	-	-	X	X	X	-	-	3%
43	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-700002005009143	Bridge	X	-	-	-	-	X	X	-	-	-	X	-	-	100%
44	Vershire	MERO RD	Schoolhouse Brook	dms-40091400809141	Culvert	-	X	X	X	X	X	X	-	-	-	-	-	X	5%
45	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-700038035309143	Bridge	-	X	X	X	-	X	X	-	X	-	X	-	X	60%
46	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-990038001109141	Culvert	-	X	X	X	X	X	X	X	X	X	X	-	X	3%
47	Vershire	AYERS RD	Lower Schoolhouse Brook	vtrans-990035000709141	Culvert	-	X	X	X	X	X	X	-	X	-	-	-	X	3%
48	West Fairlee	BEAR NOTCH RD	Bear Notch Brook	vtrans-990017001109161	Bridge	-	X	-	X	-	X	-	-	-	-	X	-	X	92%
49	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	dms-100020000509161	Culvert	-	X	X	X	X	X	-	-	X	X	X	-	X	1%
50	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	dms-100020000609161	Culvert	-	X	X	X	-	X	-	X	-	-	-	-	-	2%
51	West Fairlee	GODFREY RD	Blood Brook	vtrans-990025001309161	Culvert	-	X	X	X	X	-	X	-	X	-	-	-	X	4%
52	West Fairlee	WILD HILL RD	Wild Hill Brook	vtrans-990002000109161	Bridge	-	X	X	X	X	X	X	X	-	-	X	-	X	54%
53	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000409161	Culvert	-	X	-	X	X	-	-	-	-	-	-	X	X	3%
54	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000509161	Culvert	-	X	X	X	X	-	-	-	X	-	X	-	X	2%
55	West Fairlee	ROUTE 244	Middle Brook	vtrans-990040000809111	Bridge	-	X	-	X	X	-	-	-	-	-	-	-	X	73%
56	West Fairlee	BEANVILLE RD	Schoolhouse Brook	vtrans-700002005109143	Arch	-	X	X	X	X	-	X	-	-	-	X	-	X	67%
57	West Fairlee	MARSH HILL RD	Blood Brook	vtrans-990024000709161	Culvert	-	X	X	X	-	X	-	-	X	-	X	-	X	3%
58	West Fairlee	KING HILL RD	Blood Brook	vtrans-990026001409161	Bridge	-	X	X	X	-	X	-	X	X	-	-	-	X	53%
59	West Fairlee	SCRUTTON HILL RD	Middle Brook	vtrans-990005001209161	Culvert	-	X	X	X	-	X	X	-	-	X	-	-	-	4%
60	West Fairlee	MARSH HILL RD	Middle Brook	vtrans-990024000809161	Bridge	-	X	X	X	-	-	X	-	-	-	-	-	X	68%
61	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	vtrans-990020001009161	Culvert	-	X	X	X	-	-	X	-	-	-	-	-	-	2%
62	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	vtrans-990020000909161	Bridge	-	X	-	X	-	X	X	-	X	-	X	-	-	87%
63	West Fairlee	CROSSROAD	Ompompanoosuc	vtrans-700011020209143	Bridge	-	-	X	-	-	X	-	X	X	-	X	-	X	157%
64	West Fairlee	BACK ST	Schoolhouse Brook	vtrans-700003013709053	Bridge	-	X	-	X	-	X	-	-	-	-	X	-	-	62%
65	West Fairlee	Mill Street	Ompompanoosuc	vtrans-700000002209053	Bridge	X	-	-	-	-	-	-	-	-	-	-	-	X	145%

Failure Modes

F1	Concern for structure due to fluvial condition or process
F2	Potential failure due to out-flanking
F3	Potential failure due to scour
F4	Potential failure due to ice or debris jam
F5	Structure related damage due to flooding of adjacent property
F6	Structure related damage due to erosion of adjacent property

Existing Problems

P1	Upstream sediment deposit
P2	Upstream Scour and/or erosion present
P3	Downstream Scour and/or erosion present
P4	Inlet obstruction present
P5	Poor location or alignment
P6	Beaver activity
P7	Floodplain filled entirely or partially by roadway approaches

Width Structure width divided by channel width as a percent (% bankfull width)

66	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	vtrans-990020000609161	Culvert	-	X	X	X	-	X	X	-	-	-	X	-	-	3%
67	West Fairlee	ROUTE 113	Trib Schoolhouse Brook	vtrans-700011020909143	Bridge	-	-	-	-	-	X	X	-	-	-	-	-	X	155%
68	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000209161	Culvert	-	X	-	X	X	-	-	-	-	-	-	-	X	7%
69	West Fairlee	MIDDLEBROOK RD	Bear Notch Brook	vtrans-990002000309161	Culvert	-	X	-	X	X	-	-	-	-	-	X	-	X	4%

Upstream Sediment Deposition		Upstream Scour and Erosion		Downstream Scour and Erosion			Poor Location or Alignment			
C1	Opening obstructed by sediment	C4	Bank armoring failing	C7	Bank armoring failing		C12	Stream approach angle is sharp bend		
C2	Sediment deposits >= half bankfull	C5	Bank erosion high	C8	Bank erosion high		C13	Located at significant valley break		
C3	steep riffle upstream	C6	Scour under structure	C9	Scour under structure		C14	Avulsion follow road		
				C10	Banks higher downstream than upstream					
				C11	Culvert outlet is cascade or freefall					

#	Town	Road	Stream Name	Structure	Type	Percent	Bankfull Width			Upstream Sediment Deposition			Upstream Scour and Erosion			Downstream Scour and Erosion			Poor Location or Alignment			
							C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14		
1	Fairlee	ROUTE 244	Blood Brook	vtrans-700028037909013	Culvert	23%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
2	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700068032514113	Bridge	218%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes
3	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700003012114113	Bridge	210%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes
4	Norwich	ROUTE 5 N	Ompompanoosuc	vtrans-700068032414113	Bridge	215%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
5	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700068032314113	Bridge	85%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
6	Norwich	Railroad Trestle	---	dms-7000RR000109102	Bridge	---	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
7	Thetford	ACADEMY RD	Ompompanoosuc	vtrans-700003010914113	Bridge	120%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
8	Thetford	SAWNEE BEAN RD	Barker Brook	vtrans-990020001109111	Culvert	50%	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
9	Thetford	BARKER RD	Barker Brook	vtrans-990021000909111	Culvert	35%	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
10	Thetford	SAWNEE BEAN RD	Ompompanoosuc	dms-100020000409111	Culvert	52%	No	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No
11	Thetford	SAWNEE BEAN RD	Barker Brook	dms-100021000209111	Culvert	43%	No	No	No	Yes	No	No	No	No	No	No	Yes	Yes	No	No	No	No
12	Thetford	ROUTE 113	Ompompanoosuc	vtrans-700003011014113	Bridge	107%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
13	Thetford	SAWNEE BEAN RD	Ompompanoosuc	vtrans-700001007414113	Bridge	124%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
14	Thetford	TUCKER HILL RD	Ompompanoosuc	vtrans-700001007314113	Bridge	163%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
15	Thetford	PHELPS RD	Barker Brook	dms-100000000309111	Culvert	45%	No	No	Yes	No	No	No	No	No	No	No	No	No	Yes	No	No	No
16	Thetford	ROUTE 244	Ompompanoosuc	vtrans-700008013114113	Bridge	293%	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No
17	Vershire	ROUTE 113	Ompompanoosuc	dms-70000000109143	Bridge	99%	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
18	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000309141	Culvert	59%	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	No	No	Yes
19	Vershire	DURGIN HILL RD	Durgin Hill Brook	vtrans-700006017009143	Bridge	50%	No	Yes	Yes	No	No	No	No	No	Yes	No	No	No	No	No	No	No
20	Vershire	ROUTE 113	Durgin Hill Brook	vtrans-700003011809143	Culvert	60%	No	No	No	Yes	No	No	No	No	No	No	Yes	Yes	Yes	No	No	No
21	Vershire	ROUTE 113	Eagle Hollow Brook	dms-200113000109052	Culvert	37%	Yes	Yes	No	No	No	Yes	No	No	No	No	No	Yes	No	No	No	No
22	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700003010609143	Bridge	170%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
23	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700027030009143	Bridge	140%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
24	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700027029709143	Bridge	96%	No	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
25	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700000002409053	Bridge	83%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
26	Vershire	FAIRBROTHERS RD	Beaver Meadow Brook	vtrans-700011021009143	Culvert	35%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
27	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700009019709143	Bridge	124%	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	No
28	Vershire	ROUTE 113	BEAVER MEADOW RD TRIB	vtrans-700000002309053	Arch	89%	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
29	Vershire	VERSHIRE CTR RD	Ompompanoosuc	vtrans-990003000209141	Culvert	47%	Yes	No	No	No	No	No	No	No	Yes	No	Yes	Yes	No	No	No	No
30	Vershire	BROWN RD	Ompompanoosuc	vtrans-990017000909141	Culvert	68%	No	No	No	No	No	No	No	No	Yes	No	Yes	Yes	No	No	No	No
31	Vershire	RICKER BRIDGE RD	Ompompanoosuc	vtrans-700003010709143	Bridge	90%	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No
32	Vershire	MUD LN	Mud Brook	dms-70002200400914	Culvert	42%	No	No	No	No	No	No	No	Yes	No	No	Yes	Yes	Yes	No	No	No
33	Vershire	REED RD	Vershire Center Brook	vtrans-700018024209143	Culvert	52%	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
34	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000409141	Culvert	42%	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	Yes	Yes	No	Yes	No	No
35	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000609141	Culvert	63%	No	No	Yes	No	No	No	No	No	No	No	No	Yes	No	No	Yes	No
36	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-700113036109143	Bridge	313%	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	Yes
37	Vershire	VERSHIRE CTR RD	Lower Schoolhouse Brook	vtrans-700003006209143	Culvert	45%	No	No	No	No	No	No	No	No	No	No	Yes	Yes	No	No	No	No

Upstream Sediment Deposition		Upstream Scour and Erosion		Downstream Scour and Erosion			Poor Location or Alignment		
C1	Opening obstructed by sediment	C4	Bank armoring failing	C7	Bank armoring failing	C12	Stream approach angle is sharp bend		
C2	Sediment deposits >= half bankfull	C5	Bank erosion high	C8	Bank erosion high	C13	Located at significant valley break		
C3	steep riffle upstream	C6	Scour under structure	C9	Scour under structure	C14	Avulsion follow road		
				C10	Banks higher downstream than upstream				
				C11	Culvert outlet is cascade or freefall				

#	Town	Road	Stream Name	Structure	Type	Percent	Bankfull Width			Upstream Sediment Deposition			Upstream Scour and Erosion			Downstream Scour and Erosion					Poor Location or Alignment		
							C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14			
38	Vershire	VERSHIRE CTR RD	Upper Schoolhouse Brook	vtrans-70003006709143	Culvert	38%	No	Yes	Yes	No	No	No	No	No	No	Yes	Yes	No	No	No			
39	Vershire	MERO RD	Schoolhouse Brook Trib (Mero)	vtrans-990036001009141	Culvert	32%	No	No	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	No	Yes			
40	Vershire	MERO RD	Mero Brook	vtrans-700036033209143	Culvert	30%	No	No	Yes	No	No	No	No	No	No	No	No	No	No	Yes			
41	Vershire	EAGLE HOLLOW RD	Eagle Hollow Brook	vtrans-700003011209143	Culvert	42%	No	No	No	No	No	No	No	No	No	No	No	No	No	No			
42	Vershire	MUD LN	Mud Brook trib to Vershire Ctr Bk	vtrans-700022027509143	Culvert	42%	No	No	No	No	No	No	No	Yes	No	No	Yes	Yes	No	No			
43	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-700002005009143	Bridge	100%	No	Yes	Yes	No	No	No	No	No	No	No	Yes	No	Yes				
44	Vershire	MERO RD	Schoolhouse Brook	dms-40091400809141	Culvert	61%	No	Yes	Yes	No	No	No	No	No	No	No	No	No	No				
45	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-700038035309143	Bridge	60%	No	Yes	Yes	No	No	No	Yes	No	No	No	No	No	Yes				
46	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-990038001109141	Culvert	40%	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	Yes	No	Yes				
47	Vershire	AYERS RD	Lower Schoolhouse Brook	vtrans-990035000709141	Culvert	35%	No	No	Yes	No	No	No	No	No	No	Yes	No	No	No				
48	West Fairlee	BEAR NOTCH RD	Bear Notch Brook	vtrans-990017001109161	Bridge	92%	No	No	No	No	No	No	No	No	No		Yes	No	Yes				
49	West Fairlee	RD	Beaver Meadow Brook	dms-100020000509161	Culvert	16%	No	No	No	No	No	No	No	No	No	Yes	No	Yes	No				
50	West Fairlee	RD	Beaver Meadow Brook	dms-100020000609161	Culvert	25%	No	No	No	Yes	No	No	No	No	No	No	No	No	No				
51	West Fairlee	GODFREY RD	Blood Brook	vtrans-990025001309161	Culvert	43%	No	No	Yes	No	No	No	No	No	Yes	Yes	No	No	No				
52	West Fairlee	WILD HILL RD	Wild Hill Brook	vtrans-990002000109161	Bridge	54%	No	No	Yes	No	Yes	No	No	No	No		No	Yes	No				
53	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000409161	Culvert	37%	No	No	No	No	No	No	No	No	No	No	No	No	No				
54	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000509161	Culvert	29%	No	No	No	No	No	No	No	No	Yes	No	No	Yes	No				
55	West Fairlee	ROUTE 244	Middle Brook	vtrans-990040000809111	Bridge	73%	No	No	No	No	No	No	No	No	No	No	No	No	No				
56	West Fairlee	BEANVILLE RD	Schoolhouse Brook	vtrans-700002005109143	Arch	67%	No	No	Yes	No	No	No	No	No	No	No		Yes	No				
57	West Fairlee	MARSH HILL RD	Blood Brook	vtrans-990024000709161	Culvert	33%	No	No	No	No	No	No	Yes	No	No	Yes	Yes	No	Yes				
58	West Fairlee	KING HILL RD	Blood Brook	vtrans-990026001409161	Bridge	53%	No	No	No	No	Yes	Yes	No	Yes	No	No		No	No				
59	West Fairlee	SCRUTTON HILL RD	Middle Brook	vtrans-990005001209161	Culvert	48%	No	No	Yes	No	No	No	No	No	No	No	No	No	No				
60	West Fairlee	MARSH HILL RD	Middle Brook	vtrans-990024000809161	Bridge	68%	No	No	Yes	No	No	No	No	No	No	No		No	No				
61	West Fairlee	RD	Beaver Meadow Brook	vtrans-990020001009161	Culvert	30%	No	No	Yes	No	No	No	No	No	No	No	No	No	No				
62	West Fairlee	RD	Beaver Meadow Brook	vtrans-990020000909161	Bridge	87%	No	No	Yes	No	No	No	No	No	No	Yes		Yes	Yes				
63	West Fairlee	CROSSROAD	Ompompanoosuc	vtrans-700011020209143	Bridge	157%	No	No	No	Yes	Yes	Yes	No	Yes	No	No	Yes	No	No				
64	West Fairlee	BACK ST	Schoolhouse Brook	vtrans-700003013709053	Bridge	62%	No	No	No	No	No	No	No	No	No	No	No	No	Yes				
65	West Fairlee	Mill Street	Ompompanoosuc	vtrans-700000002209053	Bridge	145%	No	No	No	No	No	No	No	No	No	No	No	No	No				
66	West Fairlee	RD	Beaver Meadow Brook	vtrans-990020000609161	Culvert	33%	No	No	Yes	No	No	No	No	No	No	No	No	No	Yes				
67	West Fairlee	ROUTE 113	Trib Schoolhouse Brook	vtrans-700011020909143	Bridge	155%	No	Yes	No	No	No	No	No	No	No	No		No	No				
68	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000209161	Culvert	83%	No	No	No	No	No	No	No	No	No	No	No	No	No				
69	West Fairlee	MIDDLEBROOK RD	Bear Notch Brook	vtrans-990002000309161	Culvert	49%	No	No	No	No	No	No	No	No	No	No	Yes	No	No				

					all fish and stream salamanders				
AOP = Aquatic Organism Passage					except adult salmonids	including adult salmonids			
#	Town	Road	Stream Name	Structure	Blocks AOP	Blocks AOP	Potentially blocks AOP	Does not block AOP	Bankfull Width %
1	Vershire	EAGLE HOLLOW RD	Eagle Hollow Brook	vtrans-700003011209143	-	-	X	-	3%
2	Vershire	MUD LN	Mud Brook trib to Vershire Ctr Bk	vtrans-700022027509143	-	-	X	-	3%
3	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	dms-100020000509161	-	X	-	-	1%
4	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	dms-100020000609161	-	-	X	-	2%
5	Vershire	ROUTE 113	Eagle Hollow Brook	dms-200113000109052	-	X	-	-	3%
6	Thetford	SAWNEE BEAN RD	Barker Brook	dms-100021000209111	-	-	X	-	4%
7	West Fairlee	SCRUTTON HILL RD	Middle Brook	vtrans-990005001209161	-	-	X	-	4%
8	Thetford	SAWNEE BEAN RD	Barker Brook	vtrans-990020001109111	-	-	X	-	4%
9	Thetford	BARKER RD	Barker Brook	vtrans-990021000909111	-	-	X	-	3%
10	West Fairlee	GODFREY RD	Blood Brook	vtrans-990025001309161	-	-	X	-	4%
11	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000409161	-	-	X	-	3%
12	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000509161	-	-	X	-	2%
13	Vershire	MERO RD	Schoolhouse Brook	dms-40091400809141	-	-	X	-	5%
14	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-990038001109141	-	-	X	-	3%
15	Vershire	AYERS RD	Lower Schoolhouse Brook	vtrans-990035000709141	-	X	-	-	3%
16	Vershire	VERSHIRE CTR RD	Lower Schoolhouse Brook	vtrans-700003006209143	-	-	X	-	4%
17	Vershire	VERSHIRE CTR RD	Upper Schoolhouse Brook	vtrans-700003006709143	-	X	-	-	3%
18	Vershire	MERO RD	Schoolhouse Brook Trib (Mero)	vtrans-990036001009141	-	-	X	-	3%
19	Vershire	MERO RD	Mero Brook	vtrans-700036033209143	-	-	X	-	3%
20	West Fairlee	MARSH HILL RD	Blood Brook	vtrans-990024000709161	-	X	-	-	3%
21	Fairlee	ROUTE 244	Blood Brook	vtrans-700028037909013	-	-	X	-	2%
22	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	vtrans-990020001009161	-	-	X	-	2%
23	Vershire	FAIRBROTHERS RD	Beaver Meadow Brook	vtrans-700011021009143	-	-	X	-	3%
24	West Fairlee	BEAVER MEADOW RD	Beaver Meadow Brook	vtrans-990020000609161	-	-	X	-	3%
25	Vershire	MUD LN	Mud Brook	dms-70002200400914	-	-	X	-	3%
26	Vershire	REED RD	Vershire Center Brook	vtrans-700018024209143	-	-	X	-	4%
27	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000409141	-	-	X	-	4%
28	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000609141	-	-	X	-	5%
29	Thetford	SAWNEE BEAN RD	Sawnee Bean trib to Ompompanoosuc	dms-100020000409111	-	-	X	-	4%
30	Thetford	PHELPS RD	Barker Brook	dms-100000000309111	-	-	X	-	4%
31	Vershire	VERSHIRE CTR RD	Main Stem Ompompanoosuc	vtrans-990003000209141	-	X	-	-	4%
32	Vershire	BROWN RD	Main Stem Ompompanoosuc	vtrans-990017000909141	-	X	-	-	6%
33	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000209161	-	-	X	-	7%
34	West Fairlee	MIDDLEBROOK RD	Bear Notch Brook	vtrans-990002000309161	-	-	X	-	4%
35	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000309141	-	X	-	-	5%
36	Vershire	ROUTE 113	Durgin Hill Brook	vtrans-700003011809143	-	X	-	-	5%

#	Town	Road	Stream Name	Structure	Type	X=Suitable			Observed		
						Small Wildlife	Medium Wildlife	Large Wildlife	Roadkill	Outside Structure	Inside Structure
1	Fairlee	ROUTE 244	Blood Brook	vtrans-700028037909013	Culvert	-	-	-	---	---	---
2	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700068032514113	Bridge	X	X	-	---	---	---
3	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700003012114113	Bridge	X	X	-	---	---	---
4	Norwich	ROUTE 5 N	Ompompanoosuc	vtrans-700068032414113	Bridge	-	-	-	---	---	---
5	Norwich	ROUTE 132	Ompompanoosuc	vtrans-700068032314113	Bridge	X	X	-	---	---	---
6	Norwich	Railroad Trestle	---	dms-7000RR000109102	Bridge	MD	MD	MD	---	---	---
7	Thetford	ACADEMY RD	Ompompanoosuc	vtrans-700003010914113	Bridge	X	X	-	---	---	---
8	Thetford	SAWNEE BEAN RD	Barker Brook	vtrans-990020001109111	Culvert	-	-	-	---	---	---
9	Thetford	BARKER RD	Barker Brook	vtrans-990021000909111	Culvert	-	-	-	---	---	---
10	Thetford	SAWNEE BEAN RD	Ompompanoosuc	dms-100020000409111	Culvert	-	-	-	---	---	---
11	Thetford	SAWNEE BEAN RD	Barker Brook	dms-100021000209111	Culvert	-	-	-	---	---	---
12	Thetford	ROUTE 113	Ompompanoosuc	vtrans-700003011014113	Bridge	-	-	-	---	---	---
13	Thetford	SAWNEE BEAN RD	Ompompanoosuc	vtrans-700001007414113	Bridge	X	X	-	---	---	---
14	Thetford	TUCKER HILL RD	Ompompanoosuc	vtrans-700001007314113	Bridge	X	X	-	---	---	---
15	Thetford	PHELPS RD	Barker Brook	dms-100000000309111	Culvert	-	-	-	---	---	---
16	Thetford	ROUTE 244	Ompompanoosuc	vtrans-700008013114113	Bridge	X	X	-	---	---	---
17	Vershire	ROUTE 113	Ompompanoosuc	dms-700000000109143	Bridge	-	-	-	---	---	---
18	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000309141	Culvert	-	-	-	---	---	---
19	Vershire	DURGIN HILL RD	Durgin Hill Brook	vtrans-700006017009143	Bridge	-	-	-	---	---	---
20	Vershire	ROUTE 113	Durgin Hill Brook	vtrans-700003011809143	Culvert	-	-	-	---	---	---
21	Vershire	ROUTE 113	Eagle Hollow Brook	dms-200113000109052	Culvert	-	-	-	---	---	---
22	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700003010609143	Bridge	-	-	-	---	---	---
23	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700027030009143	Bridge	X	X	-	---	---	---
24	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700027029709143	Bridge	-	-	-	---	---	---
25	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700000002409053	Bridge	-	-	-	---	---	---
26	Vershire	FAIRBROTHERS RD	Beaver Meadow Brook	vtrans-700011021009143	Culvert	-	-	-	---	---	---
27	Vershire	ROUTE 113	Ompompanoosuc	vtrans-700009019709143	Bridge	-	-	-	---	---	---
28	Vershire	ROUTE 113	BEAVER MEADOW RD TRIB	vtrans-700000002309053	Arch	-	-	-	---	---	---
29	Vershire	VERSHIRE CTR RD	Ompompanoosuc	vtrans-990003000209141	Culvert	-	-	-	---	---	---
30	Vershire	BROWN RD	Ompompanoosuc	vtrans-990017000909141	Culvert	-	-	-	---	---	---
31	Vershire	RICKER BRIDGE RD	Ompompanoosuc	vtrans-700003010709143	Bridge	-	-	-	---	---	---
32	Vershire	MUD LN	Mud Brook	dms-70002200400914	Culvert	-	-	-	---	---	---
33	Vershire	REED RD	Vershire Center Brook	vtrans-700018024209143	Culvert	-	-	-	---	---	---
34	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000409141	Culvert	-	-	-	---	---	---
35	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-990003000609141	Culvert	-	-	-	---	---	---
36	Vershire	VERSHIRE CTR RD	Vershire Center Brook	vtrans-700113036109143	Bridge	X	X	-	---	---	---
37	Vershire	VERSHIRE CTR RD	Lower Schoolhouse Brook	vtrans-700003006209143	Culvert	-	-	-	---	---	---

#	Town	Road	Stream Name	Structure	Type	X=Suitable			Observed		
						Small Wildlife	Medium Wildlife	Large Wildlife	Roadkill	Outside Structure	Inside Structure
38	Vershire	VERSHIRE CTR RD	Upper Schoolhouse Brook	vtrans-700003006709143	Culvert	-	-	-	---	---	---
39	Vershire	MERO RD	Mero Brook	vtrans-990036001009141	Culvert	-	-	-	---	---	---
40	Vershire	MERO RD	Mero Brook	vtrans-700036033209143	Culvert	-	-	-	---	---	---
41	Vershire	EAGLE HOLLOW RD	Eagle Hollow Brook	vtrans-700003011209143	Culvert	-	-	-	---	---	---
42	Vershire	MUD LN	Mud Brook trib to Vershire Ctr Bk	vtrans-700022027509143	Culvert	-	-	-	---	---	---
43	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-700002005009143	Bridge	X	X	-	---	---	---
44	Vershire	MERO RD	Schoolhouse Brook	dms-40091400809141	Culvert	-	-	-	---	---	---
45	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-700038035309143	Bridge	-	-	-	---	---	---
46	Vershire	S VERSHIRE RD	Schoolhouse Brook	vtrans-990038001109141	Culvert	-	-	-	---	---	---
47	Vershire	AYERS RD	Lower Schoolhouse Brook	vtrans-990035000709141	Culvert	-	-	-	---	---	---
48	West Fairlee	BEAR NOTCH RD	Bear Notch Brook	vtrans-990017001109161	Bridge	X	-	-	---	---	---
49	West Fairlee	RD	Beaver Meadow Brook	dms-100020000509161	Culvert	-	-	-	---	---	---
50	West Fairlee	RD	Beaver Meadow Brook	dms-100020000609161	Culvert	-	-	-	---	---	---
51	West Fairlee	GODFREY RD	Blood Brook	vtrans-990025001309161	Culvert	-	-	-	---	---	---
52	West Fairlee	WILD HILL RD	Wild Hill Brook	vtrans-990002000109161	Bridge	-	-	-	---	---	---
53	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000409161	Culvert	-	-	-	---	---	---
54	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000509161	Culvert	-	-	-	---	---	---
55	West Fairlee	ROUTE 244	Middle Brook	vtrans-990040000809111	Bridge	-	-	-	---	---	---
56	West Fairlee	BEANVILLE RD	Schoolhouse Brook	vtrans-700002005109143	Arch	-	-	-	---	---	---
57	West Fairlee	MARSH HILL RD	Blood Brook	vtrans-990024000709161	Culvert	-	-	-	---	---	---
58	West Fairlee	KING HILL RD	Blood Brook	vtrans-990026001409161	Bridge	-	-	-	---	---	---
59	West Fairlee	SCRUTTON HILL RD	Middle Brook	vtrans-990005001209161	Culvert	-	-	-	---	---	---
60	West Fairlee	MARSH HILL RD	Middle Brook	vtrans-990024000809161	Bridge	-	-	-	---	---	---
61	West Fairlee	RD	Beaver Meadow Brook	vtrans-990020001009161	Culvert	-	-	-	---	---	---
62	West Fairlee	RD	Beaver Meadow Brook	vtrans-990020000909161	Bridge	X	-	-	---	---	---
63	West Fairlee	CROSSROAD	Ompompanoosuc	vtrans-700011020209143	Bridge	-	-	-	---	---	---
64	West Fairlee	BACK ST	Schoolhouse Brook	vtrans-700003013709053	Bridge	-	-	-	---	---	---
65	West Fairlee	Mill Street	Ompompanoosuc	vtrans-700000002209053	Bridge	-	-	-	---	---	---
66	West Fairlee	RD	Beaver Meadow Brook	vtrans-990020000609161	Culvert	-	-	-	---	---	---
67	West Fairlee	ROUTE 113	Trib Schoolhouse Brook	vtrans-700011020909143	Bridge	-	-	-	---	---	---
68	West Fairlee	MIDDLEBROOK RD	Middle Brook	vtrans-990002000209161	Culvert	-	-	-	---	---	---
69	West Fairlee	MIDDLEBROOK RD	Bear Notch Brook	vtrans-990002000309161	Culvert	-	-	-	---	---	---