White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M01**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Reach is west of Rt 110 and begins at confluence with the White River. Reach ends just West of Branch View cemetery.**

1.2 Towns: **Royalton**

1.3 Downstream Latitude: **43.82371**

1.3 Downstream Longitude: **-72.52065**

Step 2. Stream Type

2.1 Elevation Upstream:	**490**		
2.1 Elevation Downstream:	**459**		
2.1 Is Gradient Gentle?:	**#Error**		
2.2 Valley Length:	**6,355.0** ft.	**1.20**	Miles
2.3 Valley Slope:	**0.5**		
2.4 Channel Length:	**6,855.0** ft.	**1.30**	Miles
2.5 Channel Slope:	**0.45 %**		
2.6 Sinuosity:	**1.08**		
2.7 Watershed Area:	**104.6** Square Miles		
2.8 Channel Width:	**101.3** feet		
2.9 Valley Width:	**400.0** feet		
2.10 Confinement Ratio:	**3.9**		
2.10 Confinement Type:	**Semi-confined**		
2.11 Reference Stream Type:	**C**		
Bedform:	**Riffle-Pool**		
Sub-Class Slope:	**None**		
Bed Material:	**Gravel**		

Step 3. Basin Charateristicts

3.1 Alluvial Fan:	**None**	
3.2 Grade Control:	**Multiple**	
3.3 Dominant Geological Mat.:	**Ice-Contact**	**65.6** %
3.3 Sub-dom. Geological Mat.:	**Glacial Lake**	
3.4 Valley Slope Left:	**Very Steep**	
3.4 Valley Slope Right:	**Ext. Steep**	
3.5 Soils		
Hydrologic Group:	**A**	**47.9** %
Flooding:	**None/Rare**	**90.2** %
Water Table Deep:	**6.0**	**87.1** %
Water Table Shallow:	**6.0**	**87.1** %
Erodibility:	**Moderate**	**40.2** %
7.4 Comments:		

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover:	**Forest**	
Current Dominant Land Cover:	**Forest**	**81.5** %
Current Sub-Dominant Land Cover:	**Field**	

4.2 Corridor

Historic Land Cover::	**Forest**	
Current Dominant Land Cover:	**Forest**	**39.2** %
Current Sub-Dominant Land Cover:	**Urban**	

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**258.0** ft.	**341.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type:	**Large Run of River**		
Use:	**Other**		
5.2 Bridges and Culverts:	**2**	**4.4** %	
5.3 Bank Armoring:	**2,403.0**	**35.1** %	
Left:	**1,364.1** ft.	Right:	**1,039.0** ft.
5.4 Channel Straightening:	**3,486.8**	**50.9** %	
5.5 Dredging History:	**No Data**		

Step 6. Floodplain Modifications

6.1 Berms & Roads - old:	**3,059.2** ft.	**44.6**
	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.
6.2 Development:	**1,640.9** ft.	**52.6** ft.
6.3 Channel Bars:	**Side**	
6.4 Meander Migration:	**Flood Chute**	
6.5 Meander Width:	**ft.** Rato:	**0.0**
6.6 Wavelength:	**ft.** Ratio:	**0.0**

Step 7. Windshield Survey

7.1 Bank Erosion:	**4359.8398438**	ft
7.2 Bank Height:	**4**	ft
7.3 Ice/Debris Jam Potential:	**None**	

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	1 Low	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	2 High	2 High	2 High	1 Low	0 N.D.	0 N.D.	2 High	0 N.S.	18

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M02**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **West of Rt 110. Begins at Branch View cemetery. Ends where river moves to E side of Rt 110 (at bridge).**

1.1 Reach Description:

1.2 Towns: **Royalton, Tunbridge**

1.3 Downstream Latitude: **43.83663**

1.3 Downstream Longitude: **-72.51604**

Step 2. Stream Type

2.1 Elevation Upstream: **504**
2.1 Elevation Downstream: **490**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,326.0** ft. **1.77** Miles
2.3 Valley Slope: **0.2**
2.4 Channel Length: **11,038.0** ft. **2.09** Miles
2.5 Channel Slope: **0.13 %**
2.6 Sinuosity: **1.18**
2.7 Watershed Area: **103.8** Square Miles
2.8 Channel Width: **101.0** feet
2.9 Valley Width: **528.0** feet
2.10 Confinement Ratio: **5.2**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Alluvial** **45.2** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **B** **61.9** %
Flooding: **None/Rare** **54.8** %
Water Table Deep: **6.0** **63.6** %
Water Table Shallow: **6.0** **45.8** %
Erodibility: **Moderate** **41.2** %
7.4 Comments:
Murky water.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.5** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Field** **31.9** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**3,605.0** ft.	**5,501.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **1.9** %
5.3 Bank Armoring: **4,744.9** **43.0** %
Left: **2,944.0** ft. Right: **1,800.9** ft.
5.4 Channel Straightening: **7,020.8** **63.6** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,847.8** ft. **16.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **242.2** ft. **0.0** ft.
6.3 Channel Bars: **Point**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **353 ft.** Rato: **3.5**
6.6 Wavelength: **694 ft.** Ratio: **6.9**

Step 7. Windshield Survey

7.1 Bank Erosion: **7090.7099609** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	1 Low	0 N.S.	1 Low	0 N.S.	1 Low	1 Low	2 High	0 N.S.	16

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M02-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins E of Mill Rd. Ends at intersection of East Bethel Rd and Ward Hill Rd.**

1.1 Reach Description:
1.2 Towns: **Royalton**
1.3 Downstream Latitude: **43.84146**
1.3 Downstream Longitude: **-72.51857**

Step 2. Stream Type

2.1 Elevation Upstream: **541**
2.1 Elevation Downstream: **494**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,312.0** ft. **0.44** Miles
2.3 Valley Slope: **2.0**
2.4 Channel Length: **2,899.0** ft. **0.55** Miles
2.5 Channel Slope: **1.62 %**
2.6 Sinuosity: **1.25**
2.7 Watershed Area: **3.3** Square Miles
2.8 Channel Width: **22.1** feet
2.9 Valley Width: **173.0** feet
2.10 Confinement Ratio: **7.8**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **E**
Bedform: **Riffle-Pool**
Sub-Class Slope: **b**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Alluvial** **72.6** %
3.3 Sub-dom. Geological Mat.: **Glacial Lake**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **81.6** %
Flooding: **Frequent** **72.6** %
Water Table Deep: **1.5** **72.6** %
Water Table Shallow: **0.0** **72.6** %
Erodibility: **Moderate** **27.4** %
7.4 Comments:
Bifurcated flow.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **85.1** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **51.4** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**956.0** ft.	**1,130.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **142 ft.** Rato: **6.4**
6.6 Wavelength: **271 ft.** Ratio: **12.3**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	1 Low	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M02-S1.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Ward Hill Rd and East Bethel Rd. Ends at second bridge crossing.**

1.1 Reach Description:
1.2 Towns: **Royalton, Tunbridge**
1.3 Downstream Latitude: **43.84705**
1.3 Downstream Longitude: **-72.52111**

Step 2. Stream Type

2.1 Elevation Upstream: **863**
2.1 Elevation Downstream: **551**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,281.0** ft. **1.00** Miles
2.3 Valley Slope: **5.9**
2.4 Channel Length: **5,582.0** ft. **1.06** Miles
2.5 Channel Slope: **5.59 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **0.8** Square Miles
2.8 Channel Width: **11.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **50.8** %
3.3 Sub-dom. Geological Mat.: **Glacial Lake**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **66.7** %
Flooding: **None/Rare** **83.5** %
Water Table Deep: **6.0** **57.7** %
Water Table Shallow: **6.0** **57.7** %
Erodibility: **Very Severe** **80.2** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **79.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **57.1** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**3,963.0** ft.	**1,562.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,633.0** ft. **29.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **558.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Avulsion**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	2 High	0 N.D.	0 N.D.	0 N.S.	0 N.S.	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M02-S1.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Ward Hill Rd and East Bethel Rd. Ends where Bethel Rd takes a sharp left turn.**

1.1 Reach Description:

1.2 Towns: **Royalton, Tunbridge**

1.3 Downstream Latitude: **43.84683**

1.3 Downstream Longitude: **-72.52166**

Step 2. Stream Type

2.1 Elevation Upstream: **1,080**
2.1 Elevation Downstream: **541**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **11,995.0** ft. **2.27** Miles
2.3 Valley Slope: **4.5**
2.4 Channel Length: **13,129.0** ft. **2.49** Miles
2.5 Channel Slope: **4.11 %**
2.6 Sinuosity: **1.09**
2.7 Watershed Area: **2.3** Square Miles
2.8 Channel Width: **19.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **96.2** %
3.3 Sub-dom. Geological Mat.: **Glacial Lake**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **93.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **94.5** %
Water Table Shallow: **1.0** **91.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.5** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **63.6** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**0-25**	**>100**
Length w / less than 25 ft.:	**4,989.0** ft.	**4,201.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **6,101.0** ft. **46.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M02-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .5 mi S of intersection of Russell Rd and Rt 110. Ends at first bridge crossing.**

1.1 Reach Description:
1.2 Towns: **Royalton, Tunbridge**
1.3 Downstream Latitude: **43.85236**
1.3 Downstream Longitude: **-72.51140**

Step 2. Stream Type

2.1 Elevation Upstream: **698**
2.1 Elevation Downstream: **485**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,038.0** ft. **1.33** Miles
2.3 Valley Slope: **3.0**
2.4 Channel Length: **8,124.0** ft. **1.54** Miles
2.5 Channel Slope: **2.62 %**
2.6 Sinuosity: **1.15**
2.7 Watershed Area: **1.7** Square Miles
2.8 Channel Width: **16.7** feet
2.9 Valley Width: **175.0** feet
2.10 Confinement Ratio: **10.5**
2.10 Confinement Type: **Very Broad**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Alluvial** **51.0** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **53.8** %
Flooding: **None/Rare** **49.0** %
Water Table Deep: **1.5** **46.3** %
Water Table Shallow: **0.0** **55.8** %
Erodibility: **Moderate** **49.0** %
7.4 Comments:
Cows in stream, stream ford.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **78.7** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **41.9** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**4,549.0** ft.	**3,330.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,554.0** ft. **19.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	1 Low	0 N.D.	0 N.D.	2 High	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M02-S2.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at second bridge crossing on Russell Rd. Ends just S of Bennett Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.87033**
1.3 Downstream Longitude: **-72.51781**

Step 2. Stream Type

2.1 Elevation Upstream: **1,219**
2.1 Elevation Downstream: **698**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,893.0** ft. **1.49** Miles
2.3 Valley Slope: **6.6**
2.4 Channel Length: **8,419.0** ft. **1.59** Miles
2.5 Channel Slope: **6.19 %**
2.6 Sinuosity: **1.07**
2.7 Watershed Area: **0.9** Square Miles
2.8 Channel Width: **12.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Dam**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **47.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **82.9** %
Water Table Shallow: **0.0** **47.9** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **79.3** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **44.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**2,104.0** ft.	**1,852.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,415.0** ft. **16.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **421.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	1 Low	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M03**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins where river goes under Rt 110 to the east. Ends .4 mi up from there.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.85473**
1.3 Downstream Longitude: **-72.50262**

Step 2. Stream Type

2.1 Elevation Upstream: **515**
2.1 Elevation Downstream: **504**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **1,891.0** ft. **0.36** Miles
2.3 Valley Slope: **0.6**
2.4 Channel Length: **1,892.0** ft. **0.36** Miles
2.5 Channel Slope: **0.58 %**
2.6 Sinuosity: **1.00**
2.7 Watershed Area: **97.2** Square Miles
2.8 Channel Width: **98.1** feet
2.9 Valley Width: **300.0** feet
2.10 Confinement Ratio: **3.1**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Ice-Contact** **44.2** %
3.3 Sub-dom. Geological Mat.: **Glacial Lake**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **A** **52.8** %
Flooding: **None/Rare** **92.7** %
Water Table Deep: **6.0** **97.6** %
Water Table Shallow: **6.0** **90.3** %
Erodibility: **Severe** **60.2** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.6** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **47.9** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**0.0** ft.	**297.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **1,083.5** **57.3** %
Left: **355.7** ft. Right: **727.8** ft.
5.4 Channel Straightening: **822.8** **43.5** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,444.3** ft. **76.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **267.0** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **525.8599854** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	1 Low	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	2 High	1 Low	1 Low	1 Low	0 N.D.	0 N.D.	2 High	0 N.S.	16

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M03-S1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .5 mi S of covered bridge (heads east). Ends 1.3 mi up Button Hill Rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.85896**

1.3 Downstream Longitude: **-72.50000**

Step 2. Stream Type

2.1 Elevation Upstream: **861**

2.1 Elevation Downstream: **519**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **4,848.0** ft. **0.92** Miles

2.3 Valley Slope: **7.1**

2.4 Channel Length: **5,064.0** ft. **0.96** Miles

2.5 Channel Slope: **6.75 %**

2.6 Sinuosity: **1.04**

2.7 Watershed Area: **1.6** Square Miles

2.8 Channel Width: **16.1** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Semi-confined**

2.11 Reference Stream Type: **A**

Bedform: **Step-Pool**

Sub-Class Slope: **none**

Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **86.1** %

3.3 Sub-dom. Geological Mat.: **Ice-Contact**

3.4 Valley Slope Left: **Steep**

3.4 Valley Slope Right: **Steep**

3.5 Soils

Hydrologic Group: **D** **56.8** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **2.0** **58.6** %

Water Table Shallow: **0.0** **56.8** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **89.1** %

Current Sub-Dominant Land Cover: **Crop**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **55.2** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**202.0** ft.	**1,012.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **1** **5.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **851.0** ft. **16.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Medium** ft

7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M03-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .5 mi S of covered bridge and heads west.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.85965**
1.3 Downstream Longitude: **-72.50078**

Step 2. Stream Type

2.1 Elevation Upstream: **597**
2.1 Elevation Downstream: **505**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,658.0** ft. **0.69** Miles
2.3 Valley Slope: **2.5**
2.4 Channel Length: **3,745.0** ft. **0.71** Miles
2.5 Channel Slope: **2.46 %**
2.6 Sinuosity: **1.02**
2.7 Watershed Area: **0.3** Square Miles
2.8 Channel Width: **7.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Glacial Lake** **79.5** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **B** **84.7** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **3.5** **52.3** %
Water Table Shallow: **1.5** **79.5** %
Erodibility: **Very Severe** **92.7** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **83.3** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **63.9** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**1,460.0** ft.	**1,273.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	4

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M04**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins where river diverges from Rt 110 and heads E. Ends .1 mi S of Town Farm Rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.85937**

1.3 Downstream Longitude: **-72.50059**

Step 2. Stream Type

2.1 Elevation Upstream: **528**
2.1 Elevation Downstream: **515**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,776.0** ft. **1.09** Miles
2.3 Valley Slope: **0.2**
2.4 Channel Length: **8,663.0** ft. **1.64** Miles
2.5 Channel Slope: **0.15 %**
2.6 Sinuosity: **1.50**
2.7 Watershed Area: **95.0** Square Miles
2.8 Channel Width: **97.2** feet
2.9 Valley Width: **705.0** feet
2.10 Confinement Ratio: **7.3**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **E**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Alluvial** **51.5** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **B** **62.9** %
Flooding: **None/Rare** **48.5** %
Water Table Deep: **6.0** **92.8** %
Water Table Shallow: **4.0** **48.0** %
Erodibility: **Moderate** **32.5** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.5** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **36.4** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**26-50**
Length w / less than 25 ft.:	**4,411.0** ft.	**5,596.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **2.1** %
5.3 Bank Armoring: **2,518.4** **29.1** %
Left: **703.6** ft. Right: **1,814.8** ft.
5.4 Channel Straightening: **3,932.0** **45.4** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,571.6** ft. **18.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **215.4** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **99 ft.** Rato: **1.0**
6.6 Wavelength: **99 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **5663.1098633** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	1 Low	0 N.S.	1 Low	2 High	2 High	2 High	2 High	0 N.S.	20

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M04-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .15 mi S of Belknap Brook Rd. Ends .22 mi W of Potash Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.86259**
1.3 Downstream Longitude: **-72.49757**

Step 2. Stream Type

2.1 Elevation Upstream: **1,372**
2.1 Elevation Downstream: **521**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **12,878.0** ft. **2.44** Miles
2.3 Valley Slope: **6.6**
2.4 Channel Length: **13,287.0** ft. **2.52** Miles
2.5 Channel Slope: **6.40 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **1.6** Square Miles
2.8 Channel Width: **16.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **83.9** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **65.6** %
Flooding: **None/Rare** **89.7** %
Water Table Deep: **2.0** **74.0** %
Water Table Shallow: **0.0** **65.6** %
Erodibility: **Very Severe** **89.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **77.9** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **50.1** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**26-50**	**0-25**
Length w / less than 25 ft.:	**2,790.0** ft.	**2,657.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **15.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,811.0** ft. **28.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Farnham Branch**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M04-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .25 mi S of Town Farm Rd. Ends .22 mi W of Potash Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.87394**
1.3 Downstream Longitude: **-72.49691**

Step 2. Stream Type

2.1 Elevation Upstream: **1,036**
2.1 Elevation Downstream: **531**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,578.0** ft. **1.62** Miles
2.3 Valley Slope: **5.9**
2.4 Channel Length: **8,587.0** ft. **1.63** Miles
2.5 Channel Slope: **5.88 %**
2.6 Sinuosity: **1.00**
2.7 Watershed Area: **3.6** Square Miles
2.8 Channel Width: **22.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **84.4** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **D** **58.2** %
Flooding: **None/Rare** **94.2** %
Water Table Deep: **2.0** **73.0** %
Water Table Shallow: **0.0** **58.2** %
Erodibility: **Very Severe** **94.2** %
7.4 Comments:
Mass failures.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **79.6** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **52.9** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**1,116.0** ft.	**2,318.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **573.0** ft. **6.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	1 Low	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M04-S2.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .22 mi W of Potash Rd and heads S. Ends .32 mi W of cemetery.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.87087**
1.3 Downstream Longitude: **-72.46776**

Step 2. Stream Type

2.1 Elevation Upstream: **1,215**
2.1 Elevation Downstream: **1,036**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,579.0** ft. **0.87** Miles
2.3 Valley Slope: **3.9**
2.4 Channel Length: **4,581.0** ft. **0.87** Miles
2.5 Channel Slope: **3.91 %**
2.6 Sinuosity: **1.00**
2.7 Watershed Area: **1.0** Square Miles
2.8 Channel Width: **13.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **98.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **100.0** %
Water Table Shallow: **0.0** **98.6** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **85.3** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **95.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	2

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Farnham Branch**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M04-S2.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .22 mi W of Potash Rd. Ends .2 mi N of jeep trail.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.87122**
1.3 Downstream Longitude: **-72.46825**

Step 2. Stream Type

2.1 Elevation Upstream: **1,643**
2.1 Elevation Downstream: **1,036**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **11,773.0** ft. **2.23** Miles
2.3 Valley Slope: **5.2**
2.4 Channel Length: **12,370.0** ft. **2.34** Miles
2.5 Channel Slope: **4.91 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **2.7** Square Miles
2.8 Channel Width: **20.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **98.5** %
3.3 Sub-dom. Geological Mat.: **Other**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **60.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **83.3** %
Water Table Shallow: **0.0** **58.5** %
Erodibility: **Very Severe** **98.5** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **80.3** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **36.0** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**26-50**	**26-50**
Length w / less than 25 ft.:	**2,102.0** ft.	**4,453.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **20.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **7,910.0** ft. **63.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	2 High	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	1 Low	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .1 mi S of Town Farm Rd. Ends by Mill covered bridge.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.87539**

1.3 Downstream Longitude: **-72.49916**

Step 2. Stream Type

2.1 Elevation Upstream: **554**
2.1 Elevation Downstream: **528**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,274.0** ft. **1.57** Miles
2.3 Valley Slope: **0.3**
2.4 Channel Length: **9,549.0** ft. **1.81** Miles
2.5 Channel Slope: **0.27 %**
2.6 Sinuosity: **1.15**
2.7 Watershed Area: **89.4** Square Miles
2.8 Channel Width: **94.6** feet
2.9 Valley Width: **906.0** feet
2.10 Confinement Ratio: **9.6**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Alluvial** **72.1** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **B** **81.8** %
Flooding: **Occasional** **59.8** %
Water Table Deep: **6.0** **83.1** %
Water Table Shallow: **4.0** **59.8** %
Erodibility: **slight** **21.9** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.8** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Field** **35.5** %
Current Sub-Dominant Land Cover: **Crop**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**26-50**	**26-50**
Length w / less than 25 ft.:	**3,972.0** ft.	**3,133.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.5** %
5.3 Bank Armoring: **5,202.8** **54.5** %
Left: **3,016.5** ft. Right: **2,186.3** ft.
5.4 Channel Straightening: **9,548.5** **100.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,058.8** ft. **32.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **2,260.4** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **96 ft.** Rato: **1.0**
6.6 Wavelength: **96 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **8062.1801758** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	2 High	2 High	1 Low	2 High	2 High	2 High	2 High	0 N.S.	23

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M05-S1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Begins at intersection of Tunbridge Mtn Rd and Cushman Rd. Ends at intersection of Tunbridge Mtn Rd and Ordway Rd.**

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.88097**

1.3 Downstream Longitude: **-72.50558**

Step 2. Stream Type

2.1 Elevation Upstream: **809**

2.1 Elevation Downstream: **515**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **6,399.0** ft. **1.21** Miles

2.3 Valley Slope: **4.6**

2.4 Channel Length: **6,796.0** ft. **1.29** Miles

2.5 Channel Slope: **4.33 %**

2.6 Sinuosity: **1.06**

2.7 Watershed Area: **2.2** Square Miles

2.8 Channel Width: **18.6** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Step-Pool**

Sub-Class Slope: **none**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **Ledge**

3.3 Dominant Geological Mat.: **Till** **87.7** %

3.3 Sub-dom. Geological Mat.: **Glacial Lake**

3.4 Valley Slope Left: **Ext. Steep**

3.4 Valley Slope Right: **Ext. Steep**

3.5 Soils

Hydrologic Group: **C** **47.7** %

Flooding: **None/Rare** **96.6** %

Water Table Deep: **2.0** **84.5** %

Water Table Shallow: **1.0** **44.4** %

Erodibility: **Very Severe** **96.6** %

7.4 Comments:

Cows in stream!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **81.8** %

Current Sub-Dominant Land Cover: **Field**

4.2 Corridor

Historic Land Cover:: **Field**

Current Dominant Land Cover: **Forest** **32.9** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**51-100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**2,378.0** ft.	**2,038.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **3** **15.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,838.0** ft. **56.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Low** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	2 High	0 N.S.	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S1.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Tunbridge Mtn Rd and Ordway Rd. Ends E of where the jeep train begins.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.88452**
1.3 Downstream Longitude: **-72.52438**

Step 2. Stream Type

2.1 Elevation Upstream: **1,077**
2.1 Elevation Downstream: **807**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,004.0** ft. **0.76** Miles
2.3 Valley Slope: **6.7**
2.4 Channel Length: **5,042.0** ft. **0.95** Miles
2.5 Channel Slope: **5.36 %**
2.6 Sinuosity: **1.26**
2.7 Watershed Area: **0.6** Square Miles
2.8 Channel Width: **10.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **53.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **91.6** %
Water Table Shallow: **0.0** **53.4** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **86.4** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Shrub**
Current Dominant Land Cover: **Forest** **75.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**2,521.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **20.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,509.0** ft. **49.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **252.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S1.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Tunbridge Mtn Rd and Ordway Rd. Ends .5 mi NW of end of Ordway Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.88520**
1.3 Downstream Longitude: **-72.52427**

Step 2. Stream Type

2.1 Elevation Upstream: **1,191**
2.1 Elevation Downstream: **809**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,142.0** ft. **1.16** Miles
2.3 Valley Slope: **6.2**
2.4 Channel Length: **7,450.0** ft. **1.41** Miles
2.5 Channel Slope: **5.13 %**
2.6 Sinuosity: **1.21**
2.7 Watershed Area: **0.8** Square Miles
2.8 Channel Width: **12.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **a**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **54.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **97.4** %
Water Table Shallow: **0.0** **54.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **76.1** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Shrub**
Current Dominant Land Cover: **Forest** **40.8** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**51-100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**2,607.0** ft.	**2,235.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **595.0** ft. **8.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	2 High	1 Low	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .23 mi N of where Cushman Rd crosses the Fist Branch.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.88328**
1.3 Downstream Longitude: **-72.50330**

Step 2. Stream Type

2.1 Elevation Upstream: **958**
2.1 Elevation Downstream: **514**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,912.0** ft. **0.93** Miles
2.3 Valley Slope: **9.0**
2.4 Channel Length: **5,418.0** ft. **1.03** Miles
2.5 Channel Slope: **8.19 %**
2.6 Sinuosity: **1.10**
2.7 Watershed Area: **0.5** Square Miles
2.8 Channel Width: **9.5** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **69.4** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **50.2** %
Flooding: **None/Rare** **79.8** %
Water Table Deep: **2.0** **65.5** %
Water Table Shallow: **1.0** **35.1** %
Erodibility: **Very Severe** **78.6** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **84.9** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **36.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**1,246.0** ft.	**433.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **1,114.0** **20.6** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,163.0** ft. **21.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	2 High	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S3.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Begins .3 mi N of where Cushman Rd crosses the First Branch. Ends at First Branch bridge crossing on Potash Rd.**

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.88497**

1.3 Downstream Longitude: **-72.49813**

Step 2. Stream Type

2.1 Elevation Upstream: **991**
2.1 Elevation Downstream: **522**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,470.0** ft. **1.60** Miles
2.3 Valley Slope: **5.5**
2.4 Channel Length: **8,441.0** ft. **1.60** Miles
2.5 Channel Slope: **5.56 %**
2.6 Sinuosity: **1.00**
2.7 Watershed Area: **2.8** Square Miles
2.8 Channel Width: **20.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Boulder**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **94.1** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **D** **50.8** %
Flooding: **None/Rare** **96.9** %
Water Table Deep: **2.0** **85.9** %
Water Table Shallow: **0.0** **50.8** %
Erodibility: **Very Severe** **94.1** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.5** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **41.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**844.0** ft.	**1,350.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,454.0** ft. **40.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	1 Low	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S3.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Starts at First Branch bridge crossing on Potash Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.88111**
1.3 Downstream Longitude: **-72.46948**

Step 2. Stream Type

2.1 Elevation Upstream: **1,628**
2.1 Elevation Downstream: **991**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,777.0** ft. **2.04** Miles
2.3 Valley Slope: **5.9**
2.4 Channel Length: **11,301.0** ft. **2.14** Miles
2.5 Channel Slope: **5.64 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **2.0** Square Miles
2.8 Channel Width: **17.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **88.2** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **57.0** %
Flooding: **None/Rare** **88.2** %
Water Table Deep: **2.0** **74.2** %
Water Table Shallow: **0.0** **57.0** %
Erodibility: **Very Severe** **88.2** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.5** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **58.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**904.0** ft.	**565.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **610.0** ft. **5.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	4

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S4.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .25 mile of SW of Mill covered bridge. Ends .35 mi N of Goodwin Hill Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.89098**
1.3 Downstream Longitude: **-72.49674**

Step 2. Stream Type

2.1 Elevation Upstream: **907**
2.1 Elevation Downstream: **523**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,205.0** ft. **1.74** Miles
2.3 Valley Slope: **4.2**
2.4 Channel Length: **10,469.0** ft. **1.98** Miles
2.5 Channel Slope: **3.67 %**
2.6 Sinuosity: **1.14**
2.7 Watershed Area: **2.7** Square Miles
2.8 Channel Width: **20.3** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **59.7** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **81.7** %
Flooding: **None/Rare** **63.7** %
Water Table Deep: **2.0** **57.4** %
Water Table Shallow: **1.0** **47.9** %
Erodibility: **Severe** **63.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **84.5** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **37.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**5,234.0** ft.	**5,862.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,506.0** ft. **33.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **523.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S4.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Goodwin Hill and Spring Rd. Ends at pond to NW.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.90357**
1.3 Downstream Longitude: **-72.51409**

Step 2. Stream Type

2.1 Elevation Upstream: **1,094**
2.1 Elevation Downstream: **831**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,405.0** ft. **0.46** Miles
2.3 Valley Slope: **10.9**
2.4 Channel Length: **2,406.0** ft. **0.46** Miles
2.5 Channel Slope: **10.93 %**
2.6 Sinuosity: **1.00**
2.7 Watershed Area: **0.3** Square Miles
2.8 Channel Width: **7.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **94.6** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **94.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **94.5** %
Water Table Shallow: **1.0** **94.5** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Cows in stream - TRASHED!!!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.5** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **78.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**51-100**	**>100**
Sub-dominant:	**26-50**	**0-25**
Length w / less than 25 ft.:	**457.0** ft.	**697.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,134.0** ft. **47.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **241.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	1 Low	0 N.S.	0 N.D.	0 N.D.	2 High	0 N.S.	13

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M05-S4.02**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at .35 mi N of Goodwin Hill Rd. Ends at Tunbridge Rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.90879**

1.3 Downstream Longitude: **-72.51800**

Step 2. Stream Type

2.1 Elevation Upstream: **1,359**

2.1 Elevation Downstream: **907**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **6,872.0** ft. **1.30** Miles

2.3 Valley Slope: **6.6**

2.4 Channel Length: **7,048.0** ft. **1.33** Miles

2.5 Channel Slope: **6.41 %**

2.6 Sinuosity: **1.03**

2.7 Watershed Area: **1.4** Square Miles

2.8 Channel Width: **15.0** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Step-Pool**

Sub-Class Slope: **none**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **75.1** %

3.3 Sub-dom. Geological Mat.: **Alluvial**

3.4 Valley Slope Left: **Ext. Steep**

3.4 Valley Slope Right: **Ext. Steep**

3.5 Soils

Hydrologic Group: **C** **100.0** %

Flooding: **None/Rare** **75.1** %

Water Table Deep: **2.0** **62.0** %

Water Table Shallow: **1.0** **62.0** %

Erodibility: **Very Severe** **75.1** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **85.9** %

Current Sub-Dominant Land Cover: **Field**

4.2 Corridor

Historic Land Cover:: **Field**

Current Dominant Land Cover: **Forest** **38.1** %

Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**3,805.0** ft.	**4,228.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **1** **5.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **352.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **Migration**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Low** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	4

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M05-S4.02-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .6 mi from the intersection with Goodwin and Spring Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.91190**
1.3 Downstream Longitude: **-72.52012**

Step 2. Stream Type

2.1 Elevation Upstream: **1,187**
2.1 Elevation Downstream: **961**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,177.0** ft. **0.41** Miles
2.3 Valley Slope: **10.4**
2.4 Channel Length: **2,315.0** ft. **0.44** Miles
2.5 Channel Slope: **9.76 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **7.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **63.8** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **60.4** %
Water Table Shallow: **1.0** **60.4** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **89.9** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **48.1** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**26-50**	**26-50**
Length w / less than 25 ft.:	**1,342.0** ft.	**324.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,826.0** ft. **78.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M05-S4.03**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at river crossing with Tunbridge Rd. Ends .5 mi N of there.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.92513**

1.3 Downstream Longitude: **-72.52448**

Step 2. Stream Type

2.1 Elevation Upstream: **1,578**

2.1 Elevation Downstream: **1,359**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **2,895.0** ft. **0.55** Miles

2.3 Valley Slope: **7.6**

2.4 Channel Length: **3,110.0** ft. **0.59** Miles

2.5 Channel Slope: **7.04 %**

2.6 Sinuosity: **1.07**

2.7 Watershed Area: **0.3** Square Miles

2.8 Channel Width: **7.9** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrow**

2.11 Reference Stream Type: **A**

Bedform: **Step-Pool**

Sub-Class Slope: **none**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **100.0** %

3.3 Sub-dom. Geological Mat.:

3.4 Valley Slope Left: **Very Steep**

3.4 Valley Slope Right: **Steep**

3.5 Soils

Hydrologic Group: **D** **51.9** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **2.0** **71.6** %

Water Table Shallow: **0.0** **51.9** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **91.8** %

Current Sub-Dominant Land Cover: **Urban**

4.2 Corridor

Historic Land Cover:: **Field**

Current Dominant Land Cover: **Forest** **50.7** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **1** **2.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Low** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	2

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M06**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at Mill covered bridge. Ends just below the tributary confluence to the E.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.89160**
1.3 Downstream Longitude: **-72.49173**

Step 2. Stream Type

2.1 Elevation Upstream: **567**
2.1 Elevation Downstream: **554**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,574.0** ft. **0.49** Miles
2.3 Valley Slope: **0.5**
2.4 Channel Length: **2,720.0** ft. **0.52** Miles
2.5 Channel Slope: **0.48 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **80.4** Square Miles
2.8 Channel Width: **90.3** feet
2.9 Valley Width: **240.0** feet
2.10 Confinement Ratio: **2.7**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Riffle-Pool**
Sub-Class Slope: **c**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Ice-Contact** **38.4** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **A** **66.0** %
Flooding: **None/Rare** **87.6** %
Water Table Deep: **6.0** **100.0** %
Water Table Shallow: **6.0** **87.6** %
Erodibility: **Very Severe** **75.4** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.7** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **43.9** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**26-50**	**26-50**
Length w / less than 25 ft.:	**1,090.0** ft.	**1,139.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **Large Run of River**
Use: **Other**
5.2 Bridges and Culverts: **2** **8.8** %
5.3 Bank Armoring: **2,720.0** **1.0** %
Left: **1,576.1** ft. Right: **1,353.1** ft.
5.4 Channel Straightening: **2,719.5** **100.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,127.6** ft. **78.2**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **765.1** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **1288.6999512** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	2 High	2 High	0 N.S.	2 High	2 High	1 Low	1 Low	0 N.D.	0 N.D.	2 High	0 N.S.	19

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M07**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins below tributary confluence (T1.1). Ends .1 mi S of Tunbridge Central school.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.89499**
1.3 Downstream Longitude: **-72.48487**

Step 2. Stream Type

2.1 Elevation Upstream: **617**
2.1 Elevation Downstream: **567**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,962.0** ft. **1.51** Miles
2.3 Valley Slope: **0.6**
2.4 Channel Length: **8,799.0** ft. **1.67** Miles
2.5 Channel Slope: **0.57 %**
2.6 Sinuosity: **1.11**
2.7 Watershed Area: **80.1** Square Miles
2.8 Channel Width: **90.1** feet
2.9 Valley Width: **422.0** feet
2.10 Confinement Ratio: **4.7**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Ice-Contact** **47.1** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **A** **47.1** %
Flooding: **None/Rare** **70.2** %
Water Table Deep: **6.0** **91.3** %
Water Table Shallow: **6.0** **65.7** %
Erodibility: **Moderate** **41.9** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.7** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **37.0** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**3,723.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.8** %
5.3 Bank Armoring: **3,088.0** **35.1** %
Left: **596.7** ft. Right: **2,491.3** ft.
5.4 Channel Straightening: **5,372.6** **61.1** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,647.4** ft. **41.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **2,663.1** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **91 ft.** Rato: **1.0**
6.6 Wavelength: **91 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **2449.1999512** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	2 High	2 High	2 High	1 Low	2 High	2 High	2 High	0 N.S.	23

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M07-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .1 mi SE of Tunbridge Rd. Ends 1.5 mi up Tunbridge Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.89815**
1.3 Downstream Longitude: **-72.48520**

Step 2. Stream Type

2.1 Elevation Upstream: **1,166**
2.1 Elevation Downstream: **566**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,819.0** ft. **1.67** Miles
2.3 Valley Slope: **6.8**
2.4 Channel Length: **9,366.0** ft. **1.77** Miles
2.5 Channel Slope: **6.41 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **1.0** Square Miles
2.8 Channel Width: **12.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Bedrock**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **86.9** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **51.9** %
Flooding: **None/Rare** **96.1** %
Water Table Deep: **2.0** **68.5** %
Water Table Shallow: **0.0** **51.9** %
Erodibility: **Very Severe** **96.1** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **63.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **29.4** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**4,776.0** ft.	**4,027.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **755.0** **8.1** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,467.0** ft. **37.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **468.0** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	1 Low	0 N.S.	2 High	0 N.S.	1 Low	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M07-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Whitney Rd and Rt 110. Ends .5 mi NW of fork in Whitney Rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.91048**

1.3 Downstream Longitude: **-72.48380**

Step 2. Stream Type

2.1 Elevation Upstream: **1,400**
2.1 Elevation Downstream: **592**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **11,636.0** ft. **2.20** Miles
2.3 Valley Slope: **6.9**
2.4 Channel Length: **12,436.0** ft. **2.36** Miles
2.5 Channel Slope: **6.50 %**
2.6 Sinuosity: **1.07**
2.7 Watershed Area: **1.8** Square Miles
2.8 Channel Width: **17.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **93.6** %
3.3 Sub-dom. Geological Mat.: **Glacial Lake**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **74.5** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **92.4** %
Water Table Shallow: **1.0** **74.5** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Large mass failures.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **78.7** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **36.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**51-100**
Length w / less than 25 ft.:	**5,347.0** ft.	**3,109.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **6** **20.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **9,173.0** ft. **73.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **1,244.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	1 Low	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	2 High	0 N.S.	12

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M07-S2.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .62 mi up Whitney Hill Rd on right (east).**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.91577**
1.3 Downstream Longitude: **-72.49268**

Step 2. Stream Type

2.1 Elevation Upstream: **1,136**
2.1 Elevation Downstream: **815**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,907.0** ft. **0.55** Miles
2.3 Valley Slope: **11.0**
2.4 Channel Length: **3,124.0** ft. **0.59** Miles
2.5 Channel Slope: **10.28 %**
2.6 Sinuosity: **1.07**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **6.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **75.1** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **91.3** %
Water Table Shallow: **1.0** **66.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Diversion / dammed riprap.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **89.2** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Shrub**
Current Dominant Land Cover: **Forest** **98.5** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**26-50**
Length w / less than 25 ft.:	**2,249.0** ft.	**1,374.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Bypass**
Type:
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
0 N.S.	0 N.S.	2 High	1 Low	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	2 High	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M07-S2.01-t2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.2 mi up Whitney hill rd on left (west).**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.92250**
1.3 Downstream Longitude: **-72.49829**

Step 2. Stream Type

2.1 Elevation Upstream: **1,299**
2.1 Elevation Downstream: **994**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,699.0** ft. **0.70** Miles
2.3 Valley Slope: **8.2**
2.4 Channel Length: **3,767.0** ft. **0.71** Miles
2.5 Channel Slope: **8.10 %**
2.6 Sinuosity: **1.02**
2.7 Watershed Area: **0.4** Square Miles
2.8 Channel Width: **9.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **75.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **100.0** %
Water Table Shallow: **0.0** **75.4** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **75.1** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **89.0** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **Bend**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	2 High	1 Low	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **First Branch of the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M08**

SGAT Version: **3**

Date Last Edited: **December, 19 2013**

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .1 mi S of Tunbridge Central School. Ends just N of Dickerman Brook.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.91486**

1.3 Downstream Longitude: **-72.47654**

Step 2. Stream Type

2.1 Elevation Upstream: **640**

2.1 Elevation Downstream: **617**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **7,474.0** ft. **1.42** Miles

2.3 Valley Slope: **0.3**

2.4 Channel Length: **8,664.0** ft. **1.64** Miles

2.5 Channel Slope: **0.27 %**

2.6 Sinuosity: **1.16**

2.7 Watershed Area: **72.2** Square Miles

2.8 Channel Width: **86.1** feet

2.9 Valley Width: **479.0** feet

2.10 Confinement Ratio: **5.6**

2.10 Confinement Type: **Narrow**

2.11 Reference Stream Type: **C**

Bedform: **Riffle-Pool**

Sub-Class Slope: **None**

Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **Ledge**

3.3 Dominant Geological Mat.: **Ice-Contact** **66.9** %

3.3 Sub-dom. Geological Mat.: **Alluvial**

3.4 Valley Slope Left: **Ext. Steep**

3.4 Valley Slope Right: **Ext. Steep**

3.5 Soils

Hydrologic Group: **A** **66.1** %

Flooding: **None/Rare** **68.2** %

Water Table Deep: **6.0** **92.1** %

Water Table Shallow: **6.0** **66.3** %

Erodibility: **Moderate** **33.8** %

7.4 Comments:

Appears to be over-widened.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **82.1** %

Current Sub-Dominant Land Cover: **Urban**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **50.1** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**26-50**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**1,412.0** ft.	**3,606.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **1** **0.7** %

5.3 Bank Armoring: **1,877.0** **21.7** %

Left: **90.1** ft. Right: **1,787.0** ft.

5.4 Channel Straightening: **3,941.8** **45.5** %

5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,587.3** ft. **29.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **1,009.1** ft. **0.0** ft.

6.3 Channel Bars: **Multiple**

6.4 Meander Migration: **Flood Chute**

6.5 Meander Width: **86 ft.** Rato: **1.0**

6.6 Wavelength: **86 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **2083.8701172** ft

7.2 Bank Height: **2** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	2 High	1 Low	2 High	1 Low	2 High	2 High	2 High	0 N.S.	22

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M08-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .27 mi NE of intersection of Foundry rd and Rt 110. Ends 1.6 miles up Foundry Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.91601**
1.3 Downstream Longitude: **-72.47195**

Step 2. Stream Type

2.1 Elevation Upstream: **1,288**
2.1 Elevation Downstream: **624**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,830.0** ft. **1.48** Miles
2.3 Valley Slope: **8.5**
2.4 Channel Length: **8,068.0** ft. **1.53** Miles
2.5 Channel Slope: **8.23 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **1.0** Square Miles
2.8 Channel Width: **13.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **90.2** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **60.8** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **63.4** %
Water Table Shallow: **0.0** **60.8** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.3** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **40.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**806.0** ft.	**1,452.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **15.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,039.0** ft. **25.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M08-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at Larkin covered bridge. Ends .12 mi NE of crossing Larkin Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.92233**
1.3 Downstream Longitude: **-72.46593**

Step 2. Stream Type

2.1 Elevation Upstream: **1,214**
2.1 Elevation Downstream: **627**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,576.0** ft. **1.81** Miles
2.3 Valley Slope: **6.1**
2.4 Channel Length: **9,702.0** ft. **1.84** Miles
2.5 Channel Slope: **6.05 %**
2.6 Sinuosity: **1.01**
2.7 Watershed Area: **1.9** Square Miles
2.8 Channel Width: **17.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **90.2** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **55.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **67.2** %
Water Table Shallow: **0.0** **53.3** %
Erodibility: **Very Severe** **90.2** %
7.4 Comments:
Erosion near culvert.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **88.1** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **47.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**388.0** ft.	**679.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **568.0** ft. **5.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **194.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M09**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just N of Dickerman Brook. Ends .1 mi N of Cherry Hill Rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.93140**

1.3 Downstream Longitude: **-72.46574**

Step 2. Stream Type

2.1 Elevation Upstream: **651**
2.1 Elevation Downstream: **640**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,715.0** ft. **0.70** Miles
2.3 Valley Slope: **0.3**
2.4 Channel Length: **3,891.0** ft. **0.74** Miles
2.5 Channel Slope: **0.28 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **63.8** Square Miles
2.8 Channel Width: **81.6** feet
2.9 Valley Width: **259.0** feet
2.10 Confinement Ratio: **3.2**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **c**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Ice-Contact** **63.9** %
3.3 Sub-dom. Geological Mat.: **Other**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **A** **49.3** %
Flooding: **None/Rare** **87.4** %
Water Table Deep: **6.0** **62.6** %
Water Table Shallow: **6.0** **62.6** %
Erodibility: **Severe** **59.2** %
7.4 Comments:
Stream ford.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.8** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **44.6** %
Current Sub-Dominant Land Cover: **Crop**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**0.0** ft.	**1,278.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **43.6** **1.1** %
Left: **43.6** ft. Right: **0.0** ft.
5.4 Channel Straightening: **2,015.5** **51.8** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,230.3** ft. **57.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **81 ft.** Rato: **1.0**
6.6 Wavelength: **81 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **863.8499756** ft
7.2 Bank Height: **2** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	0 N.S.	2 High	0 N.S.	2 High	0 N.S.	1 Low	1 Low	2 High	2 High	2 High	0 N.S.	18

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M09-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Cherry Hill Rd and Rt 110. Ends E of end of Cherry Hill Rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.93882**

1.3 Downstream Longitude: **-72.46706**

Step 2. Stream Type

2.1 Elevation Upstream: **1,217**
2.1 Elevation Downstream: **644**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,341.0** ft. **1.01** Miles
2.3 Valley Slope: **10.7**
2.4 Channel Length: **5,662.0** ft. **1.07** Miles
2.5 Channel Slope: **10.12 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **0.3** Square Miles
2.8 Channel Width: **7.8** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **77.8** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **46.2** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **57.6** %
Water Table Shallow: **0.0** **46.2** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Grassy swale.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **73.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **53.1** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**26-50**	**>100**
Length w / less than 25 ft.:	**2,604.0** ft.	**3,227.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **4,276.0** ft. **75.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M10**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Reach starts .1 mi North of Cherry hill Rd. Ends just North of Hunt cemetery.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.93986**
1.3 Downstream Longitude: **-72.46393**

Step 2. Stream Type

2.1 Elevation Upstream: **673**
2.1 Elevation Downstream: **651**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,431.0** ft. **0.65** Miles
2.3 Valley Slope: **0.6**
2.4 Channel Length: **3,975.0** ft. **0.75** Miles
2.5 Channel Slope: **0.55 %**
2.6 Sinuosity: **1.16**
2.7 Watershed Area: **63.1** Square Miles
2.8 Channel Width: **81.1** feet
2.9 Valley Width: **500.0** feet
2.10 Confinement Ratio: **6.2**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Ice-Contact** **52.4** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **A** **50.7** %
Flooding: **None/Rare** **76.0** %
Water Table Deep: **6.0** **68.6** %
Water Table Shallow: **6.0** **51.2** %
Erodibility: **Moderate** **42.3** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.9** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **53.4** %
Current Sub-Dominant Land Cover: **Crop**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**51-100**	**>100**
Length w / less than 25 ft.:	**0.0** ft.	**2,518.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **626.8** **15.8** %
Left: **0.0** ft. Right: **626.8** ft.
5.4 Channel Straightening: **2,891.1** **72.7** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **712.2** ft. **0.0** ft.
6.3 Channel Bars: **Side**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **81 ft.** Rato: **1.0**
6.6 Wavelength: **81 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **527.0200195** ft
7.2 Bank Height: **2** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	1 Low	2 High	0 N.S.	0 Unk.	1 Low	1 Low	1 Low	2 High	2 High	1 Low	0 N.S.	17

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M10-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .25 mi S of Flint bridge. Ends .25 mi E of pond.**

1.1 Reach Description:
1.2 Towns: **Chelsea, Tunbridge**
1.3 Downstream Latitude: **43.94589**
1.3 Downstream Longitude: **-72.45691**

Step 2. Stream Type

2.1 Elevation Upstream: **1,264**
2.1 Elevation Downstream: **665**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,010.0** ft. **1.52** Miles
2.3 Valley Slope: **7.5**
2.4 Channel Length: **8,494.0** ft. **1.61** Miles
2.5 Channel Slope: **7.05 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **3.0** Square Miles
2.8 Channel Width: **21.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Till** **95.7** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **A** **53.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **57.6** %
Water Table Shallow: **6.0** **57.6** %
Erodibility: **Very Severe** **90.8** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **86.4** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **46.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**509.0** ft.	**1,019.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **2** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,278.0** ft. **26.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	1 Low	2 High	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **First Branch of the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M11**

SGAT Version: **3**

Date Last Edited: **June, 10 2013**

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just N of Hunt cemetery. Ends just N of confluence with Cram Brook.**

1.1 Reach Description:

1.2 Towns: **Chelsea, Tunbridge**

1.3 Downstream Latitude: **43.94776**

1.3 Downstream Longitude: **-72.45796**

Step 2. Stream Type

2.1 Elevation Upstream: **704**

2.1 Elevation Downstream: **673**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **5,206.0** ft. **0.99** Miles

2.3 Valley Slope: **0.6**

2.4 Channel Length: **6,121.0** ft. **1.16** Miles

2.5 Channel Slope: **0.51 %**

2.6 Sinuosity: **1.18**

2.7 Watershed Area: **59.6** Square Miles

2.8 Channel Width: **79.1** feet

2.9 Valley Width: **400.0** feet

2.10 Confinement Ratio: **5.1**

2.10 Confinement Type: **Narrow**

2.11 Reference Stream Type: **C**

Bedform: **Riffle-Pool**

Sub-Class Slope: **None**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **Ledge**

3.3 Dominant Geological Mat.: **Ice-Contact** **42.9** %

3.3 Sub-dom. Geological Mat.: **Till**

3.4 Valley Slope Left: **Ext. Steep**

3.4 Valley Slope Right: **Ext. Steep**

3.5 Soils

Hydrologic Group: **A** **49.3** %

Flooding: **None/Rare** **81.4** %

Water Table Deep: **6.0** **86.7** %

Water Table Shallow: **6.0** **70.8** %

Erodibility: **Severe** **50.1** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **81.7** %

Current Sub-Dominant Land Cover: **Crop**

4.2 Corridor

Historic Land Cover:: **Field**

Current Dominant Land Cover: **Forest** **32.9** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**51-100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**1,154.0** ft.	**2,644.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **2** **2.0** %

5.3 Bank Armoring: **1,838.9** **30.0** %

Left: **1,183.9** ft. Right: **655.0** ft.

5.4 Channel Straightening: **3,054.3** **49.9** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **790.3** ft. **12.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **Multiple**

6.4 Meander Migration: **Flood Chute**

6.5 Meander Width: **79 ft.** Rato: **1.0**

6.6 Wavelength: **79 ft.** Ratio: **1.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **1145.5300293** ft

7.2 Bank Height: **3** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	1 Low	0 N.S.	1 Low	1 Low	2 High	2 High	1 Low	0 N.S.	18

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M11-S1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at Moxley bridge.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.95671**

1.3 Downstream Longitude: **-72.46367**

Step 2. Stream Type

2.1 Elevation Upstream: **1,422**

2.1 Elevation Downstream: **703**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **5,784.0** ft. **1.10** Miles

2.3 Valley Slope: **12.4**

2.4 Channel Length: **6,080.0** ft. **1.15** Miles

2.5 Channel Slope: **11.83 %**

2.6 Sinuosity: **1.05**

2.7 Watershed Area: **0.5** Square Miles

2.8 Channel Width: **9.4** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Cascade**

Sub-Class Slope: **none**

Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **92.0** %

3.3 Sub-dom. Geological Mat.: **Ice-Contact**

3.4 Valley Slope Left: **Very Steep**

3.4 Valley Slope Right: **Ext. Steep**

3.5 Soils

Hydrologic Group: **C** **50.1** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **6.0** **50.3** %

Water Table Shallow: **6.0** **50.3** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **85.9** %

Current Sub-Dominant Land Cover: **Urban**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Urban** **41.8** %

Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**26-50**	**26-50**
Length w / less than 25 ft.:	**729.0** ft.	**1,216.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **3** **5.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **5,302.0** ft. **87.2**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **122.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **No Data** ft

7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M12**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just N of confluence with Cram Brook. Ends just N of confluence with Jenkins Brook.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.95997**

1.3 Downstream Longitude: **-72.46424**

Step 2. Stream Type

2.1 Elevation Upstream: **794**
2.1 Elevation Downstream: **704**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,062.0** ft. **1.34** Miles
2.3 Valley Slope: **1.3**
2.4 Channel Length: **7,605.0** ft. **1.44** Miles
2.5 Channel Slope: **1.18 %**
2.6 Sinuosity: **1.08**
2.7 Watershed Area: **47.6** Square Miles
2.8 Channel Width: **71.7** feet
2.9 Valley Width: **350.0** feet
2.10 Confinement Ratio: **4.9**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **C**
Bedform: **Plane Bed**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **46.0** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **A** **67.2** %
Flooding: **None/Rare** **92.8** %
Water Table Deep: **6.0** **95.6** %
Water Table Shallow: **6.0** **88.4** %
Erodibility: **Severe** **74.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **82.6** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **46.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**1,180.0** ft.	**749.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.6** %
5.3 Bank Armoring: **1,440.4** **18.9** %
Left: **248.1** ft. Right: **1,192.3** ft.
5.4 Channel Straightening: **2,635.7** **34.7** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,743.0** ft. **36.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **144.7** ft. **0.0** ft.
6.3 Channel Bars: **Side**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **1171.4300537** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	1 Low	2 High	0 N.S.	2 High	0 N.S.	1 Low	1 Low	0 N.D.	0 N.D.	1 Low	0 N.S.	14

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M12-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .8 mi NE of East Randolph Rd on Rt 110. Ends at pond.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.97106**
1.3 Downstream Longitude: **-72.45579**

Step 2. Stream Type

2.1 Elevation Upstream: **1,601**
2.1 Elevation Downstream: **776**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,333.0** ft. **1.96** Miles
2.3 Valley Slope: **8.0**
2.4 Channel Length: **10,656.0** ft. **2.02** Miles
2.5 Channel Slope: **7.74 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **0.9** Square Miles
2.8 Channel Width: **12.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **No Data**
3.3 Dominant Geological Mat.: **Till** **90.8** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **54.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **55.3** %
Water Table Shallow: **0.0** **58.9** %
Erodibility: **Very Severe** **95.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **79.0** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **39.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**5,114.0** ft.	**4,155.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **4,870.0** ft. **45.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **533.0** ft. **0.0** ft.
6.3 Channel Bars: **No Data**
6.4 Meander Migration: **No Data**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M13**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just N of confluence with Jenkins Brook. Ends .33 mi N of Rt 113 & Rt 110 intersection.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.97564**

1.3 Downstream Longitude: **-72.44967**

Step 2. Stream Type

2.1 Elevation Upstream: **816**
2.1 Elevation Downstream: **794**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,610.0** ft. **1.25** Miles
2.3 Valley Slope: **0.3**
2.4 Channel Length: **7,481.0** ft. **1.42** Miles
2.5 Channel Slope: **0.29 %**
2.6 Sinuosity: **1.13**
2.7 Watershed Area: **38.5** Square Miles
2.8 Channel Width: **65.3** feet
2.9 Valley Width: **429.0** feet
2.10 Confinement Ratio: **6.6**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Alluvial** **47.0** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **B** **58.3** %
Flooding: **None/Rare** **53.0** %
Water Table Deep: **6.0** **89.7** %
Water Table Shallow: **4.0** **47.0** %
Erodibility: **slight** **17.9** %
7.4 Comments:
NULL

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.1** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover::
Current Dominant Land Cover: **Forest** **32.1** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**51-100**
Length w / less than 25 ft.:	**1,408.0** ft.	**1,048.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **6** **3.3** %
5.3 Bank Armoring: **7,396.6** **98.9** %
Left: **3,602.2** ft. Right: **3,794.4** ft.
5.4 Channel Straightening: **7,148.4** **95.6** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,370.6** ft. **18.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **3,795.2** ft. **1,693.8** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **345 ft.** Rato: **5.3**
6.6 Wavelength: **995 ft.** Ratio: **15.2**

Step 7. Windshield Survey

7.1 Bank Erosion: **2048.5800781** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	1 Low	2 High	1 Low	1 Low	0 N.S.	1 Low	2 High	1 Low	19

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M14**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .33 mi N of intersection of Rt 113 and Rt 110. Ends where the valley becomes confined.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.99287**
1.3 Downstream Longitude: **-72.44840**

Step 2. Stream Type

2.1 Elevation Upstream: **881**
2.1 Elevation Downstream: **816**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,103.0** ft. **1.35** Miles
2.3 Valley Slope: **0.9**
2.4 Channel Length: **9,029.0** ft. **1.71** Miles
2.5 Channel Slope: **0.72 %**
2.6 Sinuosity: **1.27**
2.7 Watershed Area: **17.1** Square Miles
2.8 Channel Width: **45.6** feet
2.9 Valley Width: **420.0** feet
2.10 Confinement Ratio: **9.2**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Alluvial** **60.0** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **B** **81.4** %
Flooding: **Frequent** **44.3** %
Water Table Deep: **6.0** **50.8** %
Water Table Shallow: **1.5** **48.1** %
Erodibility: **slight** **21.7** %
7.4 Comments:
NULL

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **80.6** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Field** **34.4** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**26-50**	**>100**
Length w / less than 25 ft.:	**4,589.0** ft.	**3,236.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **Small Run of River**
Use: **Recreation**
5.2 Bridges and Culverts: **5** **1.4** %
5.3 Bank Armoring: **3,942.8** **43.7** %
Left: **2,506.0** ft. Right: **1,436.8** ft.
5.4 Channel Straightening: **310.0** **3.4** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,036.3** ft. **11.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **2,354.8** ft. **0.0** ft.
6.3 Channel Bars: **Side**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **247 ft.** Rato: **5.4**
6.6 Wavelength: **644 ft.** Ratio: **14.1**

Step 7. Windshield Survey

7.1 Bank Erosion: **3274.3999023** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	0 N.S.	0 N.S.	1 Low	2 High	1 Low	1 Low	0 N.S.	1 Low	2 High	1 Low	17

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M15**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins where valley becomes confined. Ends at pond to W of river.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.01146**
1.3 Downstream Longitude: **-72.46200**

Step 2. Stream Type

2.1 Elevation Upstream: **920**
2.1 Elevation Downstream: **881**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,655.0** ft. **0.88** Miles
2.3 Valley Slope: **0.8**
2.4 Channel Length: **5,336.0** ft. **1.01** Miles
2.5 Channel Slope: **0.73 %**
2.6 Sinuosity: **1.15**
2.7 Watershed Area: **15.7** Square Miles
2.8 Channel Width: **44.0** feet
2.9 Valley Width: **194.0** feet
2.10 Confinement Ratio: **4.4**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **81.0** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **A** **80.3** %
Flooding: **None/Rare** **85.9** %
Water Table Deep: **6.0** **81.1** %
Water Table Shallow: **6.0** **81.1** %
Erodibility: **Very Severe** **81.1** %
7.4 Comments:

No buffer, great location for tree planting. Channelized in downstream section.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.4** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **31.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**26-50**	**>100**
Length w / less than 25 ft.:	**424.0** ft.	**338.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **0.8** %
5.3 Bank Armoring: **3,751.4** **70.3** %
Left: **1,403.0** ft. Right: **2,348.4** ft.
5.4 Channel Straightening: **2,344.6** **43.9** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **557.6** ft. **10.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **520.7** ft. **0.0** ft.
6.3 Channel Bars: **Side**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **322 ft.** Rato: **7.3**
6.6 Wavelength: **748 ft.** Ratio: **17.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **1421.1700439** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	1 Low	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	1 Low	1 Low	1 Low	1 Low	0 N.S.	2 High	2 High	1 Low	18

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M16**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at pond to W of river. Ends where Chelsea Rd crosses river.**

1.1 Reach Description:

1.2 Towns: **Chelsea, Washington**

1.3 Downstream Latitude: **44.02286**

1.3 Downstream Longitude: **-72.46917**

Step 2. Stream Type

2.1 Elevation Upstream: **1,052**
2.1 Elevation Downstream: **920**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,648.0** ft. **1.83** Miles
2.3 Valley Slope: **1.4**
2.4 Channel Length: **11,145.0** ft. **2.11** Miles
2.5 Channel Slope: **1.18 %**
2.6 Sinuosity: **1.16**
2.7 Watershed Area: **14.6** Square Miles
2.8 Channel Width: **42.6** feet
2.9 Valley Width: **399.0** feet
2.10 Confinement Ratio: **9.4**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Alluvial** **66.7** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **B** **78.1** %
Flooding: **Frequent** **66.7** %
Water Table Deep: **3.0** **66.7** %
Water Table Shallow: **1.5** **66.7** %
Erodibility: **Moderate** **33.0** %
7.4 Comments:
Looks good!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.4** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Field**
Current Dominant Land Cover: **Forest** **26.5** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**6,441.0** ft.	**6,832.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **5** **0.9** %
5.3 Bank Armoring: **5,189.1** **46.6** %
Left: **2,970.5** ft. Right: **2,218.6** ft.
5.4 Channel Straightening: **6,492.9** **58.3** %
5.5 Dredging History: **Dredging**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **755.2** ft. **6.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **520.1** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **304 ft.** Rato: **7.1**
6.6 Wavelength: **447 ft.** Ratio: **10.5**

Step 7. Windshield Survey

7.1 Bank Erosion: **2902.8400879** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	2 High	1 Low	0 N.S.	1 Low	1 Low	0 N.S.	0 N.S.	2 High	1 Low	18

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M17**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins where Chelsea Rd crosses river. Ends .25 mi N of Sky Acres Rd.**

1.1 Reach Description:

1.2 Towns: **Chelsea, Washington**

1.3 Downstream Latitude: **44.04715**

1.3 Downstream Longitude: **-72.47623**

Step 2. Stream Type

2.1 Elevation Upstream: **1,346**
2.1 Elevation Downstream: **1,052**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,014.0** ft. **1.52** Miles
2.3 Valley Slope: **3.7**
2.4 Channel Length: **8,874.0** ft. **1.68** Miles
2.5 Channel Slope: **3.31 %**
2.6 Sinuosity: **1.11**
2.7 Watershed Area: **4.8** Square Miles
2.8 Channel Width: **26.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **C**
Bedform: **Step-Pool**
Sub-Class Slope: **b**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **96.8** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **A** **57.9** %
Flooding: **None/Rare** **96.8** %
Water Table Deep: **6.0** **63.0** %
Water Table Shallow: **6.0** **63.0** %
Erodibility: **Very Severe** **96.2** %
7.4 Comments:
NULL

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.4** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **35.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**451.0** ft.	**203.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **1.1** %
5.3 Bank Armoring: **5,670.8** **63.9** %
Left: **3,298.7** ft. Right: **2,372.1** ft.
5.4 Channel Straightening: **3,599.8** **40.6** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **6,358.5** ft. **71.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **83.1** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **638.6699829** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	1 Low	0 N.S.	0 N.S.	2 High	2 High	0 N.S.	2 High	0 N.S.	1 Low	1 Low	0 N.D.	0 N.D.	1 Low	1 Low	15

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to the White River**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **M17-S1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at Town farm Rd.**

1.1 Reach Description:

1.2 Towns: **Washington**

1.3 Downstream Latitude: **44.05214**

1.3 Downstream Longitude: **-72.47305**

Step 2. Stream Type

2.1 Elevation Upstream: **1,672**

2.1 Elevation Downstream: **1,138**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **6,218.0** ft. **1.18** Miles

2.3 Valley Slope: **8.6**

2.4 Channel Length: **6,417.0** ft. **1.22** Miles

2.5 Channel Slope: **8.32 %**

2.6 Sinuosity: **1.03**

2.7 Watershed Area: **0.5** Square Miles

2.8 Channel Width: **9.4** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Cascade**

Sub-Class Slope: **none**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **91.9** %

3.3 Sub-dom. Geological Mat.: **Other**

3.4 Valley Slope Left: **Very Steep**

3.4 Valley Slope Right: **Ext. Steep**

3.5 Soils

Hydrologic Group: **B** **42.3** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **6.0** **50.7** %

Water Table Shallow: **6.0** **50.7** %

Erodibility: **Very Severe** **91.9** %

7.4 Comments:

Aggredation?

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **87.5** %

Current Sub-Dominant Land Cover: **Urban**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **65.9** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**256.0** ft.	**1,347.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **2** **5.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **4,565.0** ft. **71.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **321.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Low** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M18**
SGAT Version: **3**
Date Last Edited: **December, 19 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .25 mi N of Sky Acres Rd. Ends just S of bridge where river mover to E side of Rt 110.**

1.1 Reach Description:

1.2 Towns: **Washington**

1.3 Downstream Latitude: **44.06304**

1.3 Downstream Longitude: **-72.46798**

Step 2. Stream Type

2.1 Elevation Upstream: **1,371**
2.1 Elevation Downstream: **1,346**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,141.0** ft. **0.41** Miles
2.3 Valley Slope: **1.2**
2.4 Channel Length: **2,453.0** ft. **0.46** Miles
2.5 Channel Slope: **1.02 %**
2.6 Sinuosity: **1.15**
2.7 Watershed Area: **2.7** Square Miles
2.8 Channel Width: **20.3** feet
2.9 Valley Width: **281.0** feet
2.10 Confinement Ratio: **13.9**
2.10 Confinement Type: **Very Broad**
2.11 Reference Stream Type: **E**
Bedform: **Dune-Ripple**
Sub-Class Slope: **None**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **72.5** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **0.0** **64.8** %
Water Table Shallow: **-1.0** **64.8** %
Erodibility: **Moderate** **35.2** %
7.4 Comments:
Wetland area.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.7** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **37.1** %
Current Sub-Dominant Land Cover: **Wetland**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**221.0** ft.	**74.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **1.6** %
5.3 Bank Armoring: **120.0** **4.9** %
Left: **60.0** ft. Right: **60.0** ft.
5.4 Channel Straightening: **102.6** **4.2** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **536.6** ft. **21.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **199.0** ft. **0.0** ft.
6.3 Channel Bars: **Point**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **57 ft.** Rato: **2.8**
6.6 Wavelength: **94 ft.** Ratio: **4.6**

Step 7. Windshield Survey

7.1 Bank Erosion: **0.0000000** ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 N.S.	2 High	1 Low	1 Low	1 Low	2 High	2 High	0 N.S.	0 N.S.	13

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M18-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .33 mi NW of Sky Acres Rd on W side of Rt 110.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.06355**
1.3 Downstream Longitude: **-72.46805**

Step 2. Stream Type

2.1 Elevation Upstream: **1,676**
2.1 Elevation Downstream: **1,345**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,520.0** ft. **1.42** Miles
2.3 Valley Slope: **4.4**
2.4 Channel Length: **8,441.0** ft. **1.60** Miles
2.5 Channel Slope: **3.92 %**
2.6 Sinuosity: **1.12**
2.7 Watershed Area: **1.1** Square Miles
2.8 Channel Width: **13.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **82.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **78.4** %
Water Table Shallow: **0.0** **71.6** %
Erodibility: **Very Severe** **89.6** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **93.6** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **86.0** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**506.0** ft.	**2,110.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **850.0** ft. **10.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **422.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **First Branch of the White River**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **M19**
SGAT Version: **3**
Date Last Edited: **June, 10 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just downstream of bridge on Rt 110. Ends where stream becomes seasonal.**

1.1 Reach Description:

1.2 Towns: **Washington**

1.3 Downstream Latitude: **44.06851**

1.3 Downstream Longitude: **-72.46610**

Step 2. Stream Type

2.1 Elevation Upstream: **1,474**
2.1 Elevation Downstream: **1,371**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,310.0** ft. **0.82** Miles
2.3 Valley Slope: **2.4**
2.4 Channel Length: **4,925.0** ft. **0.93** Miles
2.5 Channel Slope: **2.09 %**
2.6 Sinuosity: **1.14**
2.7 Watershed Area: **1.5** Square Miles
2.8 Channel Width: **15.7** feet
2.9 Valley Width: **303.0** feet
2.10 Confinement Ratio: **19.4**
2.10 Confinement Type: **Very Broad**
2.11 Reference Stream Type: **E**
Bedform: **Riffle-Pool**
Sub-Class Slope: **b**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **80.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **85.5** %
Water Table Shallow: **1.0** **80.9** %
Erodibility: **Very Severe** **94.2** %
7.4 Comments:
Wetlands.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.0** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **52.0** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**31.0** ft.	**1,315.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **0.2** %
5.3 Bank Armoring: **854.2** **17.3** %
Left: **32.7** ft. Right: **821.5** ft.
5.4 Channel Straightening: **1,430.2** **29.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,831.9** ft. **37.2**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **12 ft.** Rato: **0.8**
6.6 Wavelength: **12 ft.** Ratio: **0.8**

Step 7. Windshield Survey

7.1 Bank Erosion: **957.9500122** ft
7.2 Bank Height: **2** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	1 Low	2 High	0 N.S.	2 High	0 N.S.	1 Low	1 Low	2 High	2 High	1 Low	2 High	19

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **T1 - Runs along Strafford Rd in Tunbridge**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T1.01**
SGAT Version: **3**
Date Last Edited: **July, 18 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .43 mi N of intersection of Rt 110 and Justin Smith Morrill Highway. Ends 1.68 mi up JSMH.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.89595**
1.3 Downstream Longitude: **-72.48339**

Step 2. Stream Type

2.1 Elevation Upstream: **999**
2.1 Elevation Downstream: **570**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **7,214.0** ft. **1.37** Miles
2.3 Valley Slope: **5.9**
2.4 Channel Length: **7,289.0** ft. **1.38** Miles
2.5 Channel Slope: **5.89 %**
2.6 Sinuosity: **1.01**
2.7 Watershed Area: **3.8** Square Miles
2.8 Channel Width: **23.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **C**
Bedform: **Step-Pool**
Sub-Class Slope: **b**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Till** **62.9** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **A** **45.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **48.7** %
Water Table Shallow: **6.0** **48.7** %
Erodibility: **Very Severe** **83.7** %
7.4 Comments:
Mass failures!!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.0** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **35.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**1,472.0** ft.	**1,057.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **1.5** %
5.3 Bank Armoring: **3,059.0** **42.0** %
Left: **2,049.6** ft. Right: **1,009.4** ft.
5.4 Channel Straightening: **3,914.6** **53.7** %
5.5 Dredging History: **Dredging**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,088.6** ft. **42.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **189.3** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **2304.8100586** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	2 High	2 High	2 High	2 High	0 N.S.	1 Low	2 High	0 N.D.	0 N.D.	2 High	2 High	20

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **T1 - Runs along Strafford Rd in Tunbridge**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T1.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.68 mi up Justin Smith Morrill Highway. Ends 6.4 mi up JSMH.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.90079**
1.3 Downstream Longitude: **-72.46097**

Step 2. Stream Type

2.1 Elevation Upstream: **1,443**
2.1 Elevation Downstream: **999**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,097.0** ft. **1.72** Miles
2.3 Valley Slope: **4.9**
2.4 Channel Length: **9,881.0** ft. **1.87** Miles
2.5 Channel Slope: **4.49 %**
2.6 Sinuosity: **1.09**
2.7 Watershed Area: **2.6** Square Miles
2.8 Channel Width: **19.8** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **87.2** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **55.7** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **53.9** %
Water Table Shallow: **1.0** **39.4** %
Erodibility: **Very Severe** **87.2** %
7.4 Comments:
Mass failures!!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **82.5** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **41.6** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**1,482.0** ft.	**5,533.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **8** **30.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **8,505.0** ft. **86.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **1,482.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	2 High	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **T1.02-S1-Trib to Stream along Strafford Rd**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T1.02-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 2.93 mi up Justin Smith Morrill Highway on right (SE).**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.90689**
1.3 Downstream Longitude: **-72.43789**

Step 2. Stream Type

2.1 Elevation Upstream: **1,504**
2.1 Elevation Downstream: **1,298**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,216.0** ft. **0.61** Miles
2.3 Valley Slope: **6.4**
2.4 Channel Length: **3,391.0** ft. **0.64** Miles
2.5 Channel Slope: **6.07 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **0.7** Square Miles
2.8 Channel Width: **11.3** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Hilly**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **62.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **65.4** %
Water Table Shallow: **0.0** **36.9** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.6** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **30.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**169.0** ft.	**474.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **715.0** ft. **21.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	6

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **T1.02-S1.01-t1-Trib to Stream along Strafford Rd**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T1.02-S1.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .17 mi up on T1.2-S1. Ends N of Willis Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.90521**
1.3 Downstream Longitude: **-72.43504**

Step 2. Stream Type

2.1 Elevation Upstream: **1,449**
2.1 Elevation Downstream: **1,342**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **1,548.0** ft. **0.29** Miles
2.3 Valley Slope: **6.9**
2.4 Channel Length: **1,635.0** ft. **0.31** Miles
2.5 Channel Slope: **6.54 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **0.3** Square Miles
2.8 Channel Width: **7.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Hilly**
3.5 Soils
Hydrologic Group: **C** **67.2** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **91.1** %
Water Table Shallow: **1.0** **58.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **93.0** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **99.5** %
Current Sub-Dominant Land Cover:

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	1

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Dickerman Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T2.01**
SGAT Version: **3**
Date Last Edited: **July, 29 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Hardscrabble Rd and Rt 110. Ends 1.23 mi up Hardscrabble Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.93073**
1.3 Downstream Longitude: **-72.46601**

Step 2. Stream Type

2.1 Elevation Upstream: **951**
2.1 Elevation Downstream: **638**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,608.0** ft. **1.25** Miles
2.3 Valley Slope: **4.7**
2.4 Channel Length: **6,642.0** ft. **1.26** Miles
2.5 Channel Slope: **4.71 %**
2.6 Sinuosity: **1.01**
2.7 Watershed Area: **4.7** Square Miles
2.8 Channel Width: **25.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **None**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Till** **74.3** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **45.5** %
Flooding: **None/Rare** **97.5** %
Water Table Deep: **6.0** **52.0** %
Water Table Shallow: **6.0** **52.0** %
Erodibility: **Very Severe** **97.5** %
7.4 Comments:
NULL

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **82.2** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **40.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**26-50**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **9.0** %
5.3 Bank Armoring: **947.3** **14.3** %
Left: **692.0** ft. Right: **255.4** ft.
5.4 Channel Straightening: **2,696.6** **40.6** %
5.5 Dredging History: **Dredging**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,817.8** ft. **42.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **811.4** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **1783.4699707** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **Debris**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	0 N.S.	0 N.S.	1 Low	1 Low	2 High	2 High	2 High	1 Low	1 Low	2 High	0 N.D.	0 N.D.	2 High	2 High	19

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to DIckerman Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T2.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .14 mi up Hardscrabble Rd on left. Ends 1.03 mi up Hurricane rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.93155**
1.3 Downstream Longitude: **-72.46894**

Step 2. Stream Type

2.1 Elevation Upstream: **1,604**
2.1 Elevation Downstream: **656**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **13,322.0** ft. **2.52** Miles
2.3 Valley Slope: **7.1**
2.4 Channel Length: **14,274.0** ft. **2.70** Miles
2.5 Channel Slope: **6.64 %**
2.6 Sinuosity: **1.07**
2.7 Watershed Area: **1.4** Square Miles
2.8 Channel Width: **15.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **82.8** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **87.7** %
Flooding: **None/Rare** **91.8** %
Water Table Deep: **2.0** **71.8** %
Water Table Shallow: **1.0** **69.9** %
Erodibility: **Very Severe** **91.8** %
7.4 Comments:
Over-widened up stream of culvert.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **86.7** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **51.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**3,568.0** ft.	**428.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to DIckerman Brook**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **T2.01-S1.01-t1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .13 mi up Hurricane Mtn rd.**

1.1 Reach Description:

1.2 Towns: **Tunbridge**

1.3 Downstream Latitude: **43.93868**

1.3 Downstream Longitude: **-72.49537**

Step 2. Stream Type

2.1 Elevation Upstream: **1,525**

2.1 Elevation Downstream: **1,259**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **2,766.0** ft. **0.52** Miles

2.3 Valley Slope: **9.6**

2.4 Channel Length: **3,058.0** ft. **0.58** Miles

2.5 Channel Slope: **8.70 %**

2.6 Sinuosity: **1.11**

2.7 Watershed Area: **0.3** Square Miles

2.8 Channel Width: **7.2** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Cascade**

Sub-Class Slope: **none**

Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **100.0** %

3.3 Sub-dom. Geological Mat.:

3.4 Valley Slope Left: **Very Steep**

3.4 Valley Slope Right: **Steep**

3.5 Soils

Hydrologic Group: **C** **87.1** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **2.0** **91.0** %

Water Table Shallow: **1.0** **87.1** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **96.6** %

Current Sub-Dominant Land Cover: **Urban**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **99.9** %

Current Sub-Dominant Land Cover:

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**26-50**	**51-100**
Length w / less than 25 ft.:	**152.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **0** **0.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **No Data** ft

7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	1

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Dickerman Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T2.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.23 mi up Hardscrabble Rd. Ends 3.22 mi up Hardscrabble and Dickerman Hill Rd.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.94234**
1.3 Downstream Longitude: **-72.48229**

Step 2. Stream Type

2.1 Elevation Upstream: **1,387**
2.1 Elevation Downstream: **953**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,926.0** ft. **2.07** Miles
2.3 Valley Slope: **4.0**
2.4 Channel Length: **11,517.0** ft. **2.18** Miles
2.5 Channel Slope: **3.77 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **2.8** Square Miles
2.8 Channel Width: **20.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **b**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **58.2** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **87.4** %
Water Table Shallow: **1.0** **58.1** %
Erodibility: **Very Severe** **98.6** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **80.2** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **53.0** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**51-100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**2,418.0** ft.	**460.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **5,973.0** ft. **51.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **576.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to DIckerman Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T2.02-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .27 mi NW of intersection of Dickerman Rd and Hanson Rd on right.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.94988**
1.3 Downstream Longitude: **-72.48637**

Step 2. Stream Type

2.1 Elevation Upstream: **1,209**
2.1 Elevation Downstream: **1,043**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **1,574.0** ft. **0.30** Miles
2.3 Valley Slope: **10.5**
2.4 Channel Length: **1,575.0** ft. **0.30** Miles
2.5 Channel Slope: **10.54 %**
2.6 Sinuosity: **1.00**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **6.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **74.1** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **74.0** %
Water Table Shallow: **6.0** **74.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **79.1** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **45.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**1,575.0** ft.	**1,575.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **2** **15.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,676.0** ft. **106.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **158.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	2 High	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	13

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to DIckerman Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T2.02-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.13 miles up Dickerman Rd from intersection with Hanson Rd on left.**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.95506**
1.3 Downstream Longitude: **-72.50079**

Step 2. Stream Type

2.1 Elevation Upstream: **1,453**
2.1 Elevation Downstream: **1,235**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,040.0** ft. **0.58** Miles
2.3 Valley Slope: **7.2**
2.4 Channel Length: **3,404.0** ft. **0.64** Miles
2.5 Channel Slope: **6.40 %**
2.6 Sinuosity: **1.12**
2.7 Watershed Area: **0.8** Square Miles
2.8 Channel Width: **12.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **87.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **99.3** %
Water Table Shallow: **1.0** **87.1** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **83.3** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **67.6** %
Current Sub-Dominant Land Cover: **Crop**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	1

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to DIckerman Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T2.02-S2.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .39 mi along T2.2-S2 on right (North).**

1.1 Reach Description:
1.2 Towns: **Tunbridge**
1.3 Downstream Latitude: **43.95766**
1.3 Downstream Longitude: **-72.50965**

Step 2. Stream Type

2.1 Elevation Upstream: **1,465**
2.1 Elevation Downstream: **1,366**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **1,871.0** ft. **0.35** Miles
2.3 Valley Slope: **5.3**
2.4 Channel Length: **2,161.0** ft. **0.41** Miles
2.5 Channel Slope: **4.58 %**
2.6 Sinuosity: **1.15**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **7.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **84.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **99.0** %
Water Table Shallow: **0.0** **84.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **60.2** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Shrub**
Current Dominant Land Cover: **Forest** **55.5** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**26-50**	**51-100**
Length w / less than 25 ft.:	**1,318.0** ft.	**1,426.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **503.0** ft. **23.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	2 High	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.01**
SGAT Version: **3**
Date Last Edited: **November, 01 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .14 mi S of intersection of E Randolph Rd and Rt 110. Ends at intersection of E Randolph Rd and Rt 110.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.95978**

1.3 Downstream Longitude: **-72.46488**

Step 2. Stream Type

2.1 Elevation Upstream: **876**
2.1 Elevation Downstream: **701**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,277.0** ft. **1.19** Miles
2.3 Valley Slope: **2.8**
2.4 Channel Length: **6,982.0** ft. **1.32** Miles
2.5 Channel Slope: **2.51 %**
2.6 Sinuosity: **1.11**
2.7 Watershed Area: **10.9** Square Miles
2.8 Channel Width: **37.5** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **C**
Bedform: **Step-Pool**
Sub-Class Slope: **b**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Ice-Contact** **41.9** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **39.7** %
Flooding: **None/Rare** **80.9** %
Water Table Deep: **2.0** **38.4** %
Water Table Shallow: **1.0** **27.5** %
Erodibility: **Severe** **64.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **77.6** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **49.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**82.0** ft.	**84.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **5** **9.0** %
5.3 Bank Armoring: **1,112.0** **15.9** %
Left: **590.8** ft. Right: **521.2** ft.
5.4 Channel Straightening: **2,115.2** **30.3** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **565.9** ft. **8.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **1,305.5** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **1631.8499756** ft
7.2 Bank Height: **4** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	0 N.S.	0 N.S.	1 Low	1 Low	2 High	0 N.S.	1 Low	1 Low	1 Low	0 N.S.	0 N.D.	0 N.D.	2 High	1 Low	14

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of E Randolph Rd and Brook Rd.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.97150**
1.3 Downstream Longitude: **-72.47940**

Step 2. Stream Type

2.1 Elevation Upstream: **1,479**
2.1 Elevation Downstream: **873**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,373.0** ft. **1.96** Miles
2.3 Valley Slope: **5.8**
2.4 Channel Length: **10,886.0** ft. **2.06** Miles
2.5 Channel Slope: **5.57 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **2.2** Square Miles
2.8 Channel Width: **18.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **95.2** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **58.1** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **74.8** %
Water Table Shallow: **1.0** **50.7** %
Erodibility: **Very Severe** **88.2** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **67.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **30.6** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**51-100**	**>100**
Length w / less than 25 ft.:	**0.0** ft.	**5,225.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **6** **25.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **7,453.0** ft. **68.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **2,177.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	2 High	2 High	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	14

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.01-S1.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of E Randolph Rd and Hooks Rd. Ends at Allen cemetery.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.97362**
1.3 Downstream Longitude: **-72.48778**

Step 2. Stream Type

2.1 Elevation Upstream: **1,435**
2.1 Elevation Downstream: **1,008**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,998.0** ft. **1.33** Miles
2.3 Valley Slope: **6.1**
2.4 Channel Length: **7,732.0** ft. **1.46** Miles
2.5 Channel Slope: **5.52 %**
2.6 Sinuosity: **1.10**
2.7 Watershed Area: **0.9** Square Miles
2.8 Channel Width: **12.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **50.8** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **82.4** %
Water Table Shallow: **0.0** **42.9** %
Erodibility: **Very Severe** **92.1** %
7.4 Comments:
Large pile of sediment near confluence.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **71.7** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **45.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**51-100**
Sub-dominant:	**26-50**	**26-50**
Length w / less than 25 ft.:	**1,469.0** ft.	**1,082.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,311.0** ft. **29.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **387.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.01-S1.01-t2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1 mi from intersection of E Randolph Rd and Hooks Rd. Ends along E Randolph rd.**

1.1 Reach Description:
1.2 Towns: **Brookfield, Chelsea**
1.3 Downstream Latitude: **43.97352**
1.3 Downstream Longitude: **-72.50643**

Step 2. Stream Type

2.1 Elevation Upstream: **1,459**
2.1 Elevation Downstream: **1,342**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,175.0** ft. **0.41** Miles
2.3 Valley Slope: **5.4**
2.4 Channel Length: **2,551.0** ft. **0.48** Miles
2.5 Channel Slope: **4.59 %**
2.6 Sinuosity: **1.17**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **7.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **94.8** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **81.1** %
Water Table Shallow: **0.0** **76.8** %
Erodibility: **Very Severe** **82.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **69.8** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **49.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**26-50**
Length w / less than 25 ft.:	**1,760.0** ft.	**51.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,375.0** ft. **93.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **128.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Begins at intersection of E Randolph Rd and Brook Rd. Ends .24 mi from intersection of Beacon Hill Rd and Brook Rd along Brook Rd.**

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.97160**

1.3 Downstream Longitude: **-72.47924**

Step 2. Stream Type

2.1 Elevation Upstream: **1,126**
2.1 Elevation Downstream: **876**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,150.0** ft. **1.92** Miles
2.3 Valley Slope: **2.5**
2.4 Channel Length: **12,532.0** ft. **2.37** Miles
2.5 Channel Slope: **1.99 %**
2.6 Sinuosity: **1.23**
2.7 Watershed Area: **9.7** Square Miles
2.8 Channel Width: **35.7** feet
2.9 Valley Width: **265.0** feet
2.10 Confinement Ratio: **7.4**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **E**
Bedform: **Riffle-Pool**
Sub-Class Slope: **b**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Alluvial** **65.1** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **56.4** %
Flooding: **Frequent** **65.1** %
Water Table Deep: **1.5** **48.4** %
Water Table Shallow: **0.0** **67.1** %
Erodibility: **Moderate** **34.9** %
7.4 Comments:
Cows fenced out, but needs buffer.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **76.5** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **44.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**6,140.0** ft.	**4,511.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **7,068.0** ft. **56.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **1,253.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **158 ft.** Rato: **4.4**
6.6 Wavelength: **334 ft.** Ratio: **9.4**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	1 Low	1 Low	0 N.S.	0 N.S.	0 N.S.	12

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.02-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Woodworth Rd and Brook Rd and heads along Woodworth Rd.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.98732**
1.3 Downstream Longitude: **-72.48521**

Step 2. Stream Type

2.1 Elevation Upstream: **1,298**
2.1 Elevation Downstream: **1,000**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,242.0** ft. **0.42** Miles
2.3 Valley Slope: **13.3**
2.4 Channel Length: **2,528.0** ft. **0.48** Miles
2.5 Channel Slope: **11.79 %**
2.6 Sinuosity: **1.13**
2.7 Watershed Area: **0.5** Square Miles
2.8 Channel Width: **9.8** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **B** **52.2** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **70.3** %
Water Table Shallow: **6.0** **70.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Missed it :(

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.0** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **58.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**455.0** ft.	**530.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,699.0** ft. **67.2**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	2 High	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.02-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .19 mi N along Brook Rd from intersection with Woodworth Rd (on the right).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.98992**
1.3 Downstream Longitude: **-72.48477**

Step 2. Stream Type

2.1 Elevation Upstream: **1,434**
2.1 Elevation Downstream: **1,032**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,838.0** ft. **0.54** Miles
2.3 Valley Slope: **14.2**
2.4 Channel Length: **3,329.0** ft. **0.63** Miles
2.5 Channel Slope: **12.08 %**
2.6 Sinuosity: **1.17**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **7.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **98.0** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **A** **43.4** %
Flooding: **None/Rare** **98.0** %
Water Table Deep: **6.0** **98.0** %
Water Table Shallow: **6.0** **98.0** %
Erodibility: **Very Severe** **98.0** %
7.4 Comments:
Missed it :(

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **83.2** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **61.0** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**699.0** ft.	**998.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,378.0** ft. **41.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **166.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.02-S3.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .63 mi from intersection of Beacon Hill Rd and Brook Rd along Brook Rd on left.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.99614**
1.3 Downstream Longitude: **-72.48912**

Step 2. Stream Type

2.1 Elevation Upstream: **1,489**
2.1 Elevation Downstream: **1,084**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,862.0** ft. **1.30** Miles
2.3 Valley Slope: **5.9**
2.4 Channel Length: **7,487.0** ft. **1.42** Miles
2.5 Channel Slope: **5.41 %**
2.6 Sinuosity: **1.09**
2.7 Watershed Area: **1.1** Square Miles
2.8 Channel Width: **13.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Boulder**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **89.6** %
3.3 Sub-dom. Geological Mat.: **Other**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **40.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **66.2** %
Water Table Shallow: **1.0** **35.7** %
Erodibility: **Very Severe** **89.6** %
7.4 Comments:
Junk in stream!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **85.1** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **40.6** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**5,615.0** ft.	**2,994.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **4,114.0** ft. **54.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.03**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location
1.1 Reach Description: **Begins .24 mi from intersection of Beacon Hill Rd and Brook Rd. Ends .5 mi from intersection of West Hill Rd and Brook Rd.**
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.99806**
1.3 Downstream Longitude: **-72.48937**

Step 2. Stream Type
2.1 Elevation Upstream: **1,572**
2.1 Elevation Downstream: **1,126**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,454.0** ft. **1.98** Miles
2.3 Valley Slope: **4.3**
2.4 Channel Length: **11,092.0** ft. **2.10** Miles
2.5 Channel Slope: **4.02 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **3.9** Square Miles
2.8 Channel Width: **23.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts
3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **64.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **78.2** %
Water Table Shallow: **0.0** **62.6** %
Erodibility: **Very Severe** **97.7** %
7.4 Comments:
Cows near river, no buffer upstream end of reach.

Step 4. Land Cover - Reach Hydrology
4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **75.8** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **44.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**3,549.0** ft.	**2,440.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications
5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **4** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications
6.1 Berms & Roads - old: **7,665.0** ft. **69.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **555.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey
7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.03-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .1 mi N of intersection of Brook Rd and Woodsworth Hill Rd along Brook Rd.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.00270**
1.3 Downstream Longitude: **-72.49083**

Step 2. Stream Type

2.1 Elevation Upstream: **1,461**
2.1 Elevation Downstream: **1,143**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,357.0** ft. **1.96** Miles
2.3 Valley Slope: **3.1**
2.4 Channel Length: **11,236.0** ft. **2.13** Miles
2.5 Channel Slope: **2.83 %**
2.6 Sinuosity: **1.08**
2.7 Watershed Area: **2.7** Square Miles
2.8 Channel Width: **20.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **none**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **90.1** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **53.9** %
Flooding: **None/Rare** **90.1** %
Water Table Deep: **2.0** **64.6** %
Water Table Shallow: **1.0** **43.9** %
Erodibility: **Severe** **72.4** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **75.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **68.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**4,269.0** ft.	**3,370.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,528.0** ft. **13.6**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to Cram Brook**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **T3.03-S1.01-t1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.04 mi along T3.3-S1.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **44.01698**

1.3 Downstream Longitude: **-72.49393**

Step 2. Stream Type

2.1 Elevation Upstream: **1,629**

2.1 Elevation Downstream: **1,307**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **6,952.0** ft. **1.32** Miles

2.3 Valley Slope: **4.6**

2.4 Channel Length: **7,591.0** ft. **1.44** Miles

2.5 Channel Slope: **4.24 %**

2.6 Sinuosity: **1.09**

2.7 Watershed Area: **1.0** Square Miles

2.8 Channel Width: **13.4** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrow**

2.11 Reference Stream Type: **B**

Bedform: **Step-Pool**

Sub-Class Slope: **a**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **Ledge**

3.3 Dominant Geological Mat.: **Till** **82.2** %

3.3 Sub-dom. Geological Mat.: **Alluvial**

3.4 Valley Slope Left: **Very Steep**

3.4 Valley Slope Right: **Very Steep**

3.5 Soils

Hydrologic Group: **D** **59.5** %

Flooding: **None/Rare** **82.2** %

Water Table Deep: **2.0** **55.0** %

Water Table Shallow: **0.0** **66.1** %

Erodibility: **Severe** **71.0** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **73.5** %

Current Sub-Dominant Land Cover: **Field**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **39.4** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**3,795.0** ft.	**2,505.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **1** **5.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,391.0** ft. **44.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Medium** ft

7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Cram Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T3.03-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .23 mi SE of intersection of Cram Brook and West hill Rd.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.01302**
1.3 Downstream Longitude: **-72.50733**

Step 2. Stream Type

2.1 Elevation Upstream: **1,557**
2.1 Elevation Downstream: **1,392**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,275.0** ft. **0.43** Miles
2.3 Valley Slope: **7.3**
2.4 Channel Length: **2,328.0** ft. **0.44** Miles
2.5 Channel Slope: **7.09 %**
2.6 Sinuosity: **1.02**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **5.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **C**
Bedform: **Step-Pool**
Sub-Class Slope: **b**
Bed Material: **Sand**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Hilly**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **53.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **95.3** %
Water Table Shallow: **1.0** **53.4** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
No buffer!

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **80.2** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **39.3** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**2,328.0** ft.	**2,328.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,047.0** ft. **45.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **1,164.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	2 High	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01**
SGAT Version: **3**
Date Last Edited: **April, 23 2014**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .17 mi S of intersection of Old Stafford Rd and Rt 110. Ends where the river goes under Colton Rd.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.97550**

1.3 Downstream Longitude: **-72.44918**

Step 2. Stream Type

2.1 Elevation Upstream: **1,242**
2.1 Elevation Downstream: **791**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **10,997.0** ft. **2.08** Miles
2.3 Valley Slope: **4.1**
2.4 Channel Length: **11,988.0** ft. **2.27** Miles
2.5 Channel Slope: **3.76 %**
2.6 Sinuosity: **1.09**
2.7 Watershed Area: **7.2** Square Miles
2.8 Channel Width: **31.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **88.0** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **40.6** %
Flooding: **None/Rare** **99.2** %
Water Table Deep: **2.0** **68.3** %
Water Table Shallow: **1.0** **36.7** %
Erodibility: **Very Severe** **93.9** %
7.4 Comments:
Bifurcated flow.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.8** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **41.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**188.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **2.1** %
5.3 Bank Armoring: **441.8** **3.7** %
Left: **304.6** ft. Right: **137.2** ft.
5.4 Channel Straightening: **1,037.7** **8.7** %
5.5 Dredging History: **Dredging**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **812.5** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **207.3699951** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.S.	1 Low	2 High	0 Unk.	1 Low	1 Low	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .47 mi up Old Stafford Rd on right (South).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.97342**
1.3 Downstream Longitude: **-72.44080**

Step 2. Stream Type

2.1 Elevation Upstream: **1,348**
2.1 Elevation Downstream: **938**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,272.0** ft. **0.43** Miles
2.3 Valley Slope: **18.0**
2.4 Channel Length: **2,315.0** ft. **0.44** Miles
2.5 Channel Slope: **17.71 %**
2.6 Sinuosity: **1.02**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **6.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **63.5** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **59.3** %
Water Table Shallow: **1.0** **59.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Water suply diversion - not in use.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **97.7** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **92.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**115.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Drinking**
Type:
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Bend**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	2

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.03 mi up Old Stafford rd on left (North).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.97111**
1.3 Downstream Longitude: **-72.42973**

Step 2. Stream Type

2.1 Elevation Upstream: **1,243**
2.1 Elevation Downstream: **1,049**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,542.0** ft. **0.48** Miles
2.3 Valley Slope: **7.6**
2.4 Channel Length: **2,589.0** ft. **0.49** Miles
2.5 Channel Slope: **7.49 %**
2.6 Sinuosity: **1.02**
2.7 Watershed Area: **0.6** Square Miles
2.8 Channel Width: **10.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **99.4** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Hilly**
3.5 Soils
Hydrologic Group: **D** **77.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **92.7** %
Water Table Shallow: **0.0** **77.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **89.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **92.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**388.0** ft.	**103.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **2.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	4

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S3.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Begins where the river goes under Colton Rd and river heads N. Ends 1.05 mi from intersection of Town Farm Rd and Colton Rd (river heading N along Town Farm Rd)**

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.96089**

1.3 Downstream Longitude: **-72.41727**

Step 2. Stream Type

2.1 Elevation Upstream: **1,380**
2.1 Elevation Downstream: **1,235**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,717.0** ft. **1.08** Miles
2.3 Valley Slope: **2.5**
2.4 Channel Length: **6,511.0** ft. **1.23** Miles
2.5 Channel Slope: **2.23 %**
2.6 Sinuosity: **1.14**
2.7 Watershed Area: **4.0** Square Miles
2.8 Channel Width: **24.1** feet
2.9 Valley Width: **440.0** feet
2.10 Confinement Ratio: **18.2**
2.10 Confinement Type: **Very Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **b**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **58.3** %
3.3 Sub-dom. Geological Mat.: **Other**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **87.3** %
Flooding: **None/Rare** **86.0** %
Water Table Deep: **2.0** **58.1** %
Water Table Shallow: **0.0** **59.6** %
Erodibility: **Severe** **58.3** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **91.5** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **72.4** %
Current Sub-Dominant Land Cover: **Wetland**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**390.0** ft.	**390.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **65 ft.** Rato: **2.7**
6.6 Wavelength: **195 ft.** Ratio: **8.1**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	4

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S3.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .26 mi up along T4.1-S3.1 on right (East).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.96323**
1.3 Downstream Longitude: **-72.41228**

Step 2. Stream Type

2.1 Elevation Upstream: **1,912**
2.1 Elevation Downstream: **1,309**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,820.0** ft. **1.86** Miles
2.3 Valley Slope: **6.1**
2.4 Channel Length: **10,363.0** ft. **1.96** Miles
2.5 Channel Slope: **5.82 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **2.0** Square Miles
2.8 Channel Width: **17.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Hilly**
3.5 Soils
Hydrologic Group: **C** **63.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **95.8** %
Water Table Shallow: **1.0** **62.1** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **94.7** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **74.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**414.0** ft.	**621.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **10.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,430.0** ft. **13.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	1 Low	0 N.S.	1 Low	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S3.01-t1.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .45 mi up along T4.1-S3.1-t1 on right (South).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.96291**
1.3 Downstream Longitude: **-72.40373**

Step 2. Stream Type

2.1 Elevation Upstream: **1,646**
2.1 Elevation Downstream: **1,423**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,315.0** ft. **0.63** Miles
2.3 Valley Slope: **6.7**
2.4 Channel Length: **3,489.0** ft. **0.66** Miles
2.5 Channel Slope: **6.39 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **0.7** Square Miles
2.8 Channel Width: **11.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Hilly**
3.4 Valley Slope Right: **Hilly**
3.5 Soils
Hydrologic Group: **D** **81.7** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **86.2** %
Water Table Shallow: **0.0** **81.7** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Undersized culvert.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **98.7** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **96.8** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**279.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
0 N.S.	1 Low	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	3

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S3.01-t1.01-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.08 mi up along T4.1-S3.1-t1 on left (North).**

1.1 Reach Description:
1.2 Towns: **Chelsea, Vershire**
1.3 Downstream Latitude: **43.96587**
1.3 Downstream Longitude: **-72.39326**

Step 2. Stream Type

2.1 Elevation Upstream: **1,813**
2.1 Elevation Downstream: **1,551**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,606.0** ft. **0.68** Miles
2.3 Valley Slope: **7.3**
2.4 Channel Length: **3,770.0** ft. **0.71** Miles
2.5 Channel Slope: **6.95 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **0.4** Square Miles
2.8 Channel Width: **9.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Hilly**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **78.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **89.9** %
Water Table Shallow: **0.0** **78.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **93.5** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **60.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**113.0** ft.	**113.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	1 Low	2 High	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.01-S3.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .26 mi S of unnamed road crossing on Beaver Meadow Brook.**

1.1 Reach Description:
1.2 Towns: **Chelsea, Vershire**
1.3 Downstream Latitude: **43.97331**
1.3 Downstream Longitude: **-72.40678**

Step 2. Stream Type

2.1 Elevation Upstream: **1,752**
2.1 Elevation Downstream: **1,380**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,053.0** ft. **1.15** Miles
2.3 Valley Slope: **6.1**
2.4 Channel Length: **6,194.0** ft. **1.17** Miles
2.5 Channel Slope: **6.01 %**
2.6 Sinuosity: **1.02**
2.7 Watershed Area: **1.2** Square Miles
2.8 Channel Width: **14.3** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **57.4** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **94.6** %
Water Table Shallow: **1.0** **56.7** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.1** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **61.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**123.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **871.0** ft. **14.1**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	3

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Jenkins Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T4.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins where the river goes under Colton Rd.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.96040**
1.3 Downstream Longitude: **-72.41695**

Step 2. Stream Type

2.1 Elevation Upstream: **1,967**
2.1 Elevation Downstream: **1,243**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,117.0** ft. **1.73** Miles
2.3 Valley Slope: **7.9**
2.4 Channel Length: **9,443.0** ft. **1.79** Miles
2.5 Channel Slope: **7.67 %**
2.6 Sinuosity: **1.04**
2.7 Watershed Area: **0.8** Square Miles
2.8 Channel Width: **12.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Boulder**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **45.5** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **70.3** %
Water Table Shallow: **0.0** **45.5** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Over-widened at culvert.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.8** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **63.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** **5.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	2

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Jail Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T5.01**
SGAT Version: **3**
Date Last Edited: **April, 23 2014**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Rt 110 and Rt 113. Ends .24 miles from the intersection along Rt 113.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.98802**
1.3 Downstream Longitude: **-72.44861**

Step 2. Stream Type

2.1 Elevation Upstream: **913**
2.1 Elevation Downstream: **823**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **1,078.0** ft. **0.20** Miles
2.3 Valley Slope: **8.3**
2.4 Channel Length: **1,438.0** ft. **0.27** Miles
2.5 Channel Slope: **6.26 %**
2.6 Sinuosity: **1.33**
2.7 Watershed Area: **4.8** Square Miles
2.8 Channel Width: **26.1** feet
2.9 Valley Width: **322.0** feet
2.10 Confinement Ratio: **12.3**
2.10 Confinement Type: **Very Broad**
2.11 Reference Stream Type: **C**
Bedform: **Riffle-Pool**
Sub-Class Slope: **None**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Ice-Contact** **93.1** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Flat**
3.4 Valley Slope Right: **Flat**
3.5 Soils
Hydrologic Group: **A** **100.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **100.0** %
Water Table Shallow: **6.0** **100.0** %
Erodibility: **slight** **6.9** %
7.4 Comments:

All rock. Ice and debris jams have been recurrent. Sediment deposit observations influenced by snagging and dredging.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.7** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover::
Current Dominant Land Cover: **Urban** **56.7** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**548.0** ft.	**649.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** **13.9** %
5.3 Bank Armoring: **1,438.0** **1.0** %
Left: **781.1** ft. Right: **772.0** ft.
5.4 Channel Straightening: **762.0** **53.0** %
5.5 Dredging History: **Dredging**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **790.3** ft.
6.3 Channel Bars: **Side**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **0.0000000** ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **Multiple**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	1 Low	2 High	2 High	2 High	0 Unk.	2 High	1 Low	0 N.S.	0 N.D.	0 N.D.	0 N.S.	2 High	17

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Jail Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T5.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .24 miles up along Rt 113 from intersection with Rt 110. Ends 3.12 miles up Rt 113.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.98768**
1.3 Downstream Longitude: **-72.44357**

Step 2. Stream Type

2.1 Elevation Upstream: **1,576**
2.1 Elevation Downstream: **913**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **15,742.0** ft. **2.98** Miles
2.3 Valley Slope: **4.2**
2.4 Channel Length: **16,268.0** ft. **3.08** Miles
2.5 Channel Slope: **4.08 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **4.7** Square Miles
2.8 Channel Width: **26.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **C** **54.7** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **63.7** %
Water Table Shallow: **1.0** **47.5** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **81.9** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **41.7** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**0-25**	**>100**
Length w / less than 25 ft.:	**3,416.0** ft.	**7,157.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **9** **50.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **14,559.0** ft. **89.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **1,627.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	2 High	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to Jail Brook**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **T5.02-S1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .2 mi up T5.2-S1.**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.99327**

1.3 Downstream Longitude: **-72.42864**

Step 2. Stream Type

2.1 Elevation Upstream: **1,291**

2.1 Elevation Downstream: **1,140**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **1,199.0** ft. **0.23** Miles

2.3 Valley Slope: **12.6**

2.4 Channel Length: **1,200.0** ft. **0.23** Miles

2.5 Channel Slope: **12.58 %**

2.6 Sinuosity: **1.00**

2.7 Watershed Area: **1.1** Square Miles

2.8 Channel Width: **13.7** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Step-Pool**

Sub-Class Slope: **none**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **100.0** %

3.3 Sub-dom. Geological Mat.:

3.4 Valley Slope Left: **Hilly**

3.4 Valley Slope Right: **Steep**

3.5 Soils

Hydrologic Group: **C** **60.0** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **2.0** **95.4** %

Water Table Shallow: **1.0** **60.0** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **86.6** %

Current Sub-Dominant Land Cover: **Field**

4.2 Corridor

Historic Land Cover:: **Field**

Current Dominant Land Cover: **Urban** **34.9** %

Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**51-100**	**0-25**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**444.0** ft.	**672.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**

Type:

Use:

5.2 Bridges and Culverts: **1** **5.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **No Data**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,136.0** ft. **94.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Low** ft

7.3 Ice/Debris Jam Potential: **Bend**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	2 High	1 Low	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jail Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T5.02-S1.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.1 mi up Rt 113 on left (North). Ends 1.02 mi up Black Hawk Rd on left (North).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **43.99591**
1.3 Downstream Longitude: **-72.42723**

Step 2. Stream Type

2.1 Elevation Upstream: **1,526**
2.1 Elevation Downstream: **1,155**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,300.0** ft. **0.81** Miles
2.3 Valley Slope: **8.6**
2.4 Channel Length: **4,455.0** ft. **0.84** Miles
2.5 Channel Slope: **8.33 %**
2.6 Sinuosity: **1.04**
2.7 Watershed Area: **0.9** Square Miles
2.8 Channel Width: **12.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Hilly**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **51.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **92.8** %
Water Table Shallow: **0.0** **51.9** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.1** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **56.5** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**>100**	**0-25**
Length w / less than 25 ft.:	**2,984.0** ft.	**1,158.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old): **Impoundment**
Type:
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,856.0** ft. **41.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	2 High	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jail Brook**
Topo Maps:
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T5.02-S1.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description:
1.2 Towns:
1.3 Downstream Latitude: **43.99619**
1.3 Downstream Longitude: **-72.42756**

Step 2. Stream Type

2.1 Elevation Upstream:
2.1 Elevation Downstream:
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: ft. **0.00** Miles
2.3 Valley Slope: **0.0**
2.4 Channel Length: **1,359.0** ft. **0.26** Miles
2.5 Channel Slope: **0.00 %**
2.6 Sinuosity: **0.00**
2.7 Watershed Area: **0.1** Square Miles
2.8 Channel Width: **4.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type:
2.11 Reference Stream Type:
Bedform:
Sub-Class Slope:
Bed Material:

Step 3. Basin Charateristicts

3.1 Alluvial Fan:
3.2 Grade Control:
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left:
3.4 Valley Slope Right:
3.5 Soils
Hydrologic Group: **B** **65.5** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **65.5** %
Water Table Shallow: **6.0** **65.5** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover:
Current Dominant Land Cover: **Forest** **74.8** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover::
Current Dominant Land Cover: **Forest** **50.7** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**27.0** ft.	**0.0** ft.

4.4 Ground Water Inputs:

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type:
Use:
5.2 Bridges and Culverts: **0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History:

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **808.0** ft. **59.5**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: ft. ft.
6.3 Channel Bars:
6.4 Meander Migration:
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: ft
7.3 Ice/Debris Jam Potential:

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 Unk.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	6

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Hart Hollow Brook**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **T6.01**

SGAT Version: **3**

Date Last Edited: **April, 23 2014**

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Begins .46 mi S of intersection of Rt 110 and Upper Village Rd. Ends at intersection of the Dump Rd and Taylor Rd.**

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **43.99310**

1.3 Downstream Longitude: **-72.44807**

Step 2. Stream Type

2.1 Elevation Upstream:	**1,003**		
2.1 Elevation Downstream:	**817**		
2.1 Is Gradient Gentle?:	**#Error**		
2.2 Valley Length:	**7,036.0** ft.	**1.33**	Miles
2.3 Valley Slope:	**2.6**		
2.4 Channel Length:	**7,366.0** ft.	**1.40**	Miles
2.5 Channel Slope:	**2.53 %**		
2.6 Sinuosity:	**1.05**		
2.7 Watershed Area:	**15.5** Square Miles		
2.8 Channel Width:	**43.7** feet		
2.9 Valley Width:	feet		
2.10 Confinement Ratio:	**0.0**		
2.10 Confinement Type:	**Narrowly Confined**		
2.11 Reference Stream Type:	**B**		
Bedform:	**Plane Bed**		
Sub-Class Slope:	**None**		
Bed Material:	**Cobble**		

Step 3. Basin Charateristicts

3.1 Alluvial Fan:	**Yes**	
3.2 Grade Control:	**Multiple**	
3.3 Dominant Geological Mat.:	**Ice-Contact**	**43.5** %
3.3 Sub-dom. Geological Mat.:	**Till**	
3.4 Valley Slope Left:	**Ext. Steep**	
3.4 Valley Slope Right:	**Ext. Steep**	
3.5 Soils		
Hydrologic Group:	**A**	**73.2** %
Flooding:	**None/Rare**	**86.9** %
Water Table Deep:	**6.0**	**88.5** %
Water Table Shallow:	**6.0**	**80.8** %
Erodibility:	**Moderate**	**43.4** %

7.4 Comments:

NULL

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover:	**Forest**	
Current Dominant Land Cover:	**Forest**	**81.7** %
Current Sub-Dominant Land Cover:	**Crop**	

4.2 Corridor

Historic Land Cover::		
Current Dominant Land Cover:	**Urban**	**33.0** %
Current Sub-Dominant Land Cover:	**Forest**	

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**1,001.0** ft.	**2,303.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts:	**6**		**10.9** %
5.3 Bank Armoring:	**4,110.9**		**55.8** %
Left:	**1,915.1** ft.	Right:	**2,195.8** ft.
5.4 Channel Straightening:	**3,168.9**		**43.0** %
5.5 Dredging History:	**Dredging**		

Step 6. Floodplain Modifications

6.1 Berms & Roads - old:	**0.0** ft.	**0.0**
	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.
6.2 Development:	**1,081.0** ft.	**1,271.2** ft.
6.3 Channel Bars:	**Multiple**	
6.4 Meander Migration:	**None**	
6.5 Meander Width:	**ft.** Rato:	**0.0**
6.6 Wavelength:	**ft.** Ratio:	**0.0**

Step 7. Windshield Survey

7.1 Bank Erosion:	**36.0800018**	ft
7.2 Bank Height:	**3**	ft
7.3 Ice/Debris Jam Potential:	**Debris**	

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	1 Low	2 High	2 High	2 High	0 Unk.	2 High	1 Low	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	17

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Dump Rd and Taylor Rd. Ends at Kennedy Corners.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.00710**
1.3 Downstream Longitude: **-72.43780**

Step 2. Stream Type

2.1 Elevation Upstream: **1,162**
2.1 Elevation Downstream: **1,001**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,436.0** ft. **0.65** Miles
2.3 Valley Slope: **4.7**
2.4 Channel Length: **3,800.0** ft. **0.72** Miles
2.5 Channel Slope: **4.24 %**
2.6 Sinuosity: **1.11**
2.7 Watershed Area: **7.1** Square Miles
2.8 Channel Width: **31.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Bedrock**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **85.1** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **85.4** %
Water Table Shallow: **1.0** **83.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **80.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **49.7** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**456.0** ft.	**1,634.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **3,307.0** ft. **87.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **190.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.01-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at Kennedy Corners and heads E along Cornith Rd. Ends 1.71 miles up Cornith Rd.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.01498**
1.3 Downstream Longitude: **-72.42932**

Step 2. Stream Type

2.1 Elevation Upstream: **1,636**
2.1 Elevation Downstream: **1,158**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,705.0** ft. **1.84** Miles
2.3 Valley Slope: **4.9**
2.4 Channel Length: **10,129.0** ft. **1.92** Miles
2.5 Channel Slope: **4.72 %**
2.6 Sinuosity: **1.04**
2.7 Watershed Area: **2.6** Square Miles
2.8 Channel Width: **19.8** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Boulder**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Hilly**
3.5 Soils
Hydrologic Group: **D** **68.2** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **98.2** %
Water Table Shallow: **0.0** **68.2** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **82.4** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **40.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**810.0** ft.	**1,721.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,201.0** ft. **11.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	6

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to Hart Hollow Brook**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.01-t1.01-s1.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .52 miles up Cornith Rd on Left.**

1.1 Reach Description:

1.2 Towns: **Chelsea, Washington**

1.3 Downstream Latitude: **44.01459**

1.3 Downstream Longitude: **-72.41943**

Step 2. Stream Type

2.1 Elevation Upstream: **1,595**

2.1 Elevation Downstream: **1,308**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **4,692.0** ft. **0.89** Miles

2.3 Valley Slope: **6.1**

2.4 Channel Length: **4,748.0** ft. **0.90** Miles

2.5 Channel Slope: **6.04 %**

2.6 Sinuosity: **1.01**

2.7 Watershed Area: **0.7** Square Miles

2.8 Channel Width: **11.0** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Step-Pool**

Sub-Class Slope: **none**

Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **100.0** %

3.3 Sub-dom. Geological Mat.:

3.4 Valley Slope Left: **Hilly**

3.4 Valley Slope Right: **Hilly**

3.5 Soils

Hydrologic Group: **C** **56.0** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **2.0** **87.9** %

Water Table Shallow: **1.0** **56.0** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **84.2** %

Current Sub-Dominant Land Cover: **Field**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **71.2** %

Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**0.0** ft.	**1,566.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **0** **0.0** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **No Data** ft

7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	4

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at Kennedy Corners and heads NE. Ends .17 mi S of South Washington.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.01511**
1.3 Downstream Longitude: **-72.43005**

Step 2. Stream Type

2.1 Elevation Upstream: **1,362**
2.1 Elevation Downstream: **1,158**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,306.0** ft. **1.19** Miles
2.3 Valley Slope: **3.2**
2.4 Channel Length: **6,709.0** ft. **1.27** Miles
2.5 Channel Slope: **3.04 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **4.2** Square Miles
2.8 Channel Width: **24.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **95.9** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **90.3** %
Flooding: **None/Rare** **95.9** %
Water Table Deep: **2.0** **92.1** %
Water Table Shallow: **0.0** **90.3** %
Erodibility: **Very Severe** **95.9** %
7.4 Comments:
Stream ford.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **78.7** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Urban** **42.8** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**0-25**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**469.0** ft.	**2,750.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **4,991.0** ft. **74.4**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.02-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just S of South Washington and heads N.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.02692**
1.3 Downstream Longitude: **-72.41440**

Step 2. Stream Type

2.1 Elevation Upstream: **1,590**
2.1 Elevation Downstream: **1,357**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,832.0** ft. **1.10** Miles
2.3 Valley Slope: **4.0**
2.4 Channel Length: **6,020.0** ft. **1.14** Miles
2.5 Channel Slope: **3.87 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **1.2** Square Miles
2.8 Channel Width: **14.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **87.9** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **87.8** %
Flooding: **None/Rare** **87.9** %
Water Table Deep: **2.0** **87.9** %
Water Table Shallow: **0.0** **87.8** %
Erodibility: **Very Severe** **87.9** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **87.3** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **82.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**26-50**
Length w / less than 25 ft.:	**541.0** ft.	**301.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,789.0** ft. **29.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **181.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	1 Low	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.03**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just downstream of South Washington and heads E.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.02678**
1.3 Downstream Longitude: **-72.41410**

Step 2. Stream Type

2.1 Elevation Upstream: **1,616**
2.1 Elevation Downstream: **1,362**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,693.0** ft. **1.08** Miles
2.3 Valley Slope: **4.5**
2.4 Channel Length: **5,891.0** ft. **1.12** Miles
2.5 Channel Slope: **4.31 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **1.8** Square Miles
2.8 Channel Width: **17.1** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **88.8** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **58.6** %
Flooding: **None/Rare** **88.8** %
Water Table Deep: **2.0** **88.7** %
Water Table Shallow: **0.0** **58.6** %
Erodibility: **Very Severe** **88.8** %
7.4 Comments:
Small stream.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **82.0** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **81.4** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**294.0** ft.	**1,119.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,904.0** ft. **32.3**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **118.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.01-S1.03-t1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins .32 mi up along T6.1-S1.3 on left (North).**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.02899**
1.3 Downstream Longitude: **-72.40858**

Step 2. Stream Type

2.1 Elevation Upstream: **1,676**
2.1 Elevation Downstream: **1,437**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,026.0** ft. **0.76** Miles
2.3 Valley Slope: **5.9**
2.4 Channel Length: **4,388.0** ft. **0.83** Miles
2.5 Channel Slope: **5.45 %**
2.6 Sinuosity: **1.09**
2.7 Watershed Area: **0.7** Square Miles
2.8 Channel Width: **11.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **63.3** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **96.3** %
Water Table Shallow: **0.0** **63.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **72.5** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **54.6** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**219.0** ft.	**1,491.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	1 Low	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	6

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Dump Rd and Taylor Rd and heads NE.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.00697**
1.3 Downstream Longitude: **-72.43801**

Step 2. Stream Type

2.1 Elevation Upstream: **1,076**
2.1 Elevation Downstream: **1,003**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,456.0** ft. **0.65** Miles
2.3 Valley Slope: **2.1**
2.4 Channel Length: **4,079.0** ft. **0.77** Miles
2.5 Channel Slope: **1.79 %**
2.6 Sinuosity: **1.18**
2.7 Watershed Area: **7.6** Square Miles
2.8 Channel Width: **32.0** feet
2.9 Valley Width: **140.0** feet
2.10 Confinement Ratio: **4.4**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **c**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Alluvial** **76.3** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **B** **76.3** %
Flooding: **Frequent** **76.3** %
Water Table Deep: **3.0** **76.3** %
Water Table Shallow: **1.5** **76.3** %
Erodibility: **slight** **23.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **83.4** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **56.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**2,406.0** ft.	**856.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,597.0** ft. **63.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **204.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	2 High	1 Low	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.02-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Dump Rd and Foster Rd. Ends 2.4 mi up Foster Rd on right (East).**

1.1 Reach Description:

1.2 Towns: **Chelsea, Washington**

1.3 Downstream Latitude: **44.01678**

1.3 Downstream Longitude: **-72.44150**

Step 2. Stream Type

2.1 Elevation Upstream: **1,859**
2.1 Elevation Downstream: **1,077**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **14,121.0** ft. **2.67** Miles
2.3 Valley Slope: **5.5**
2.4 Channel Length: **14,692.0** ft. **2.78** Miles
2.5 Channel Slope: **5.32 %**
2.6 Sinuosity: **1.04**
2.7 Watershed Area: **1.7** Square Miles
2.8 Channel Width: **16.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Multiple**
3.3 Dominant Geological Mat.: **Till** **94.7** %
3.3 Sub-dom. Geological Mat.: **Other**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **45.2** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **75.6** %
Water Table Shallow: **1.0** **44.9** %
Erodibility: **Very Severe** **93.3** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **84.1** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **55.5** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**1,616.0** ft.	**293.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,624.0** ft. **17.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **441.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	1 Low	1 Low	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.03**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Dump Rd and Foster Rd. Ends 1.54 mi up Dump Rd from the intersection.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.01640**
1.3 Downstream Longitude: **-72.44201**

Step 2. Stream Type

2.1 Elevation Upstream: **1,219**
2.1 Elevation Downstream: **1,077**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,126.0** ft. **1.54** Miles
2.3 Valley Slope: **1.7**
2.4 Channel Length: **8,843.0** ft. **1.67** Miles
2.5 Channel Slope: **1.61 %**
2.6 Sinuosity: **1.09**
2.7 Watershed Area: **5.6** Square Miles
2.8 Channel Width: **28.0** feet
2.9 Valley Width: **229.0** feet
2.10 Confinement Ratio: **8.2**
2.10 Confinement Type: **Broad**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **c**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Alluvial** **42.7** %
3.3 Sub-dom. Geological Mat.: **Till**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **53.9** %
Flooding: **None/Rare** **57.3** %
Water Table Deep: **1.5** **37.8** %
Water Table Shallow: **0.0** **48.3** %
Erodibility: **Moderate** **48.7** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **83.1** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **44.9** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**0-25**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**6,632.0** ft.	**2,564.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,909.0** ft. **32.9**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **265.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **152 ft.** Rato: **5.4**
6.6 Wavelength: **459 ft.** Ratio: **16.4**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	1 Low	0 N.S.	0 N.S.	2 High	0 N.S.	0 N.S.	11

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.03-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just south of the upstream reach break on T6.3 and heads N.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.03307**
1.3 Downstream Longitude: **-72.45500**

Step 2. Stream Type

2.1 Elevation Upstream: **1,750**
2.1 Elevation Downstream: **1,220**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **4,677.0** ft. **0.89** Miles
2.3 Valley Slope: **11.3**
2.4 Channel Length: **4,933.0** ft. **0.93** Miles
2.5 Channel Slope: **10.74 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **0.3** Square Miles
2.8 Channel Width: **7.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **95.6** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **C** **56.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **49.7** %
Water Table Shallow: **6.0** **46.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Small stream.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **59.1** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **82.4** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**2,121.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **797.0** ft. **16.2**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	1 Low	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	6

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.04**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location

1.1 Reach Description: **Begins 1.54 mi up Dump Rd from intersection of Dump Rd and Foster Rd. Ends 2.69 mi up Dump Rd from this intersection.**

1.2 Towns: **Washington**

1.3 Downstream Latitude: **44.03289**

1.3 Downstream Longitude: **-72.45463**

Step 2. Stream Type

2.1 Elevation Upstream: **1,399**
2.1 Elevation Downstream: **1,219**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,617.0** ft. **1.25** Miles
2.3 Valley Slope: **2.7**
2.4 Channel Length: **6,828.0** ft. **1.29** Miles
2.5 Channel Slope: **2.64 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **4.4** Square Miles
2.8 Channel Width: **25.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **96.3** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **90.9** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **6.0** **48.8** %
Water Table Shallow: **6.0** **48.8** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **86.7** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **56.3** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**204.0** ft.	**409.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **661.0** ft. **9.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **137.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	1 Low	1 Low	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	1 Low	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.04-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just S of upstream reach break of T6.4 on E side.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.04621**
1.3 Downstream Longitude: **-72.43934**

Step 2. Stream Type

2.1 Elevation Upstream: **1,842**
2.1 Elevation Downstream: **1,406**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,104.0** ft. **0.97** Miles
2.3 Valley Slope: **8.5**
2.4 Channel Length: **5,269.0** ft. **1.00** Miles
2.5 Channel Slope: **8.27 %**
2.6 Sinuosity: **1.03**
2.7 Watershed Area: **0.4** Square Miles
2.8 Channel Width: **8.3** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Hilly**
3.5 Soils
Hydrologic Group: **C** **52.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **54.1** %
Water Table Shallow: **1.0** **52.5** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **94.8** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **99.1** %
Current Sub-Dominant Land Cover: **Field**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**26-50**
Length w / less than 25 ft.:	**0.0** ft.	**52.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	1

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.05**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 2.69 mi Hart Hollow Rd from the intersection of Dump Rd and Foster Rd.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.04669**
1.3 Downstream Longitude: **-72.43986**

Step 2. Stream Type

2.1 Elevation Upstream: **1,682**
2.1 Elevation Downstream: **1,399**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **9,276.0** ft. **1.76** Miles
2.3 Valley Slope: **3.1**
2.4 Channel Length: **9,873.0** ft. **1.87** Miles
2.5 Channel Slope: **2.87 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **3.1** Square Miles
2.8 Channel Width: **21.5** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Plane Bed**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **D** **36.6** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **69.5** %
Water Table Shallow: **0.0** **36.6** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **89.2** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **54.3** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**1,086.0** ft.	**1,184.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,148.0** ft. **21.8**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **99.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.05-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just upstream of T6.5 downstream reach break.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.04805**
1.3 Downstream Longitude: **-72.43999**

Step 2. Stream Type

2.1 Elevation Upstream: **1,745**
2.1 Elevation Downstream: **1,409**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **8,270.0** ft. **1.57** Miles
2.3 Valley Slope: **4.1**
2.4 Channel Length: **10,385.0** ft. **1.97** Miles
2.5 Channel Slope: **3.24 %**
2.6 Sinuosity: **1.26**
2.7 Watershed Area: **0.9** Square Miles
2.8 Channel Width: **12.7** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrow**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **73.0** %
3.3 Sub-dom. Geological Mat.: **Other**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **62.6** %
Flooding: **None/Rare** **87.4** %
Water Table Deep: **2.0** **65.9** %
Water Table Shallow: **0.0** **61.0** %
Erodibility: **Severe** **73.1** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.4** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **92.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**51-100**
Length w / less than 25 ft.:	**311.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,843.0** ft. **17.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	1 Low	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	1 Low	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Hart Hollow Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T6.05-S2.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 4.23 mi up Hart Hollow rd from the intersection with Foster Rd.**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.06538**
1.3 Downstream Longitude: **-72.42760**

Step 2. Stream Type

2.1 Elevation Upstream: **1,854**
2.1 Elevation Downstream: **1,605**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,350.0** ft. **0.63** Miles
2.3 Valley Slope: **7.4**
2.4 Channel Length: **3,518.0** ft. **0.67** Miles
2.5 Channel Slope: **7.08 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **0.7** Square Miles
2.8 Channel Width: **11.4** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **50.8** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **48.6** %
Water Table Shallow: **6.0** **44.9** %
Erodibility: **Very Severe** **93.5** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **90.0** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **83.7** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**70.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **1,185.0** ft. **33.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Jones Pond Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T7.01**
SGAT Version: **3**
Date Last Edited: **August, 05 2013**
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Reach is along Edwards Rd for 2.66 mi from its intersection with Rt 110.**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.03692**
1.3 Downstream Longitude: **-72.47567**

Step 2. Stream Type

2.1 Elevation Upstream: **1,647**
2.1 Elevation Downstream: **997**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **13,277.0** ft. **2.51** Miles
2.3 Valley Slope: **4.9**
2.4 Channel Length: **13,951.0** ft. **2.64** Miles
2.5 Channel Slope: **4.66 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **2.9** Square Miles
2.8 Channel Width: **20.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **Yes**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **90.5** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **38.9** %
Flooding: **None/Rare** **94.4** %
Water Table Deep: **2.0** **56.3** %
Water Table Shallow: **0.0** **44.5** %
Erodibility: **Very Severe** **94.3** %
7.4 Comments:

Stream ford & mass failures. Ph2-2012: debris jams common, several culvert failures (not necessarily related to debris) over time at different locations

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **69.9** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **42.5** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** **0.0** %
Left: **0.0** ft. Right: **0.0** ft.
5.4 Channel Straightening: **0.0** **0.0** %
5.5 Dredging History: **Dredging**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **357.3** ft. **2.6**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Multiple**
6.4 Meander Migration: **Flood Chute**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: **478.2000122** ft
7.2 Bank Height: **3** ft
7.3 Ice/Debris Jam Potential: **Multiple**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 N.S.	2 High	0 N.S.	0 N.S.	1 Low	1 Low	0 N.D.	0 N.D.	0 N.S.	2 High	10

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jones Pond Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T7.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins up Edwards rd 1.76 mi on left (SW).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.04322**
1.3 Downstream Longitude: **-72.50689**

Step 2. Stream Type

2.1 Elevation Upstream: **1,640**
2.1 Elevation Downstream: **1,438**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,180.0** ft. **0.41** Miles
2.3 Valley Slope: **9.3**
2.4 Channel Length: **2,281.0** ft. **0.43** Miles
2.5 Channel Slope: **8.86 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **6.2** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **99.7** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **88.9** %
Flooding: **None/Rare** **99.7** %
Water Table Deep: **2.0** **88.9** %
Water Table Shallow: **0.0** **89.2** %
Erodibility: **Very Severe** **99.7** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **74.6** %
Current Sub-Dominant Land Cover: **Field**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **99.7** %
Current Sub-Dominant Land Cover:

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	1

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**

Stream Name: **Unnamed Trib to Jones Pond Brook**

Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**

Watershed: **White River**

Sub-watershed: **First Branch White River**

Reach ID: **T7.01-S2.01**

SGAT Version: **3**

Date Last Edited:

QA Status: **Step 7 done**

Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins up Edwards rd 2.02 mi on left (SW).**

1.1 Reach Description:

1.2 Towns: **Chelsea**

1.3 Downstream Latitude: **44.04512**

1.3 Downstream Longitude: **-72.51114**

Step 2. Stream Type

2.1 Elevation Upstream: **1,618**

2.1 Elevation Downstream: **1,475**

2.1 Is Gradient Gentle?: **#Error**

2.2 Valley Length: **1,950.0** ft. **0.37** Miles

2.3 Valley Slope: **7.3**

2.4 Channel Length: **1,933.0** ft. **0.37** Miles

2.5 Channel Slope: **7.40 %**

2.6 Sinuosity: **0.99**

2.7 Watershed Area: **0.3** Square Miles

2.8 Channel Width: **7.5** feet

2.9 Valley Width: feet

2.10 Confinement Ratio: **0.0**

2.10 Confinement Type: **Narrowly Confined**

2.11 Reference Stream Type: **A**

Bedform: **Cascade**

Sub-Class Slope: **none**

Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**

3.2 Grade Control: **None**

3.3 Dominant Geological Mat.: **Till** **100.0** %

3.3 Sub-dom. Geological Mat.:

3.4 Valley Slope Left: **Steep**

3.4 Valley Slope Right: **Steep**

3.5 Soils

Hydrologic Group: **D** **72.9** %

Flooding: **None/Rare** **100.0** %

Water Table Deep: **2.0** **100.0** %

Water Table Shallow: **0.0** **72.9** %

Erodibility: **Very Severe** **100.0** %

7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed

Historic Land Cover: **Forest**

Current Dominant Land Cover: **Forest** **81.5** %

Current Sub-Dominant Land Cover: **Crop**

4.2 Corridor

Historic Land Cover:: **Forest**

Current Dominant Land Cover: **Forest** **88.7** %

Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**193.0** ft.	**231.0** ft.

4.4 Ground Water Inputs: **None**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):

Type: **None**

Use:

5.2 Bridges and Culverts: **1** %

5.3 Bank Armoring: **0.0** %

Left: ft. Right: ft.

5.4 Channel Straightening: **0.0** %

5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.

6.3 Channel Bars: **None**

6.4 Meander Migration: **None**

6.5 Meander Width: **ft.** Rato: **0.0**

6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft

7.2 Bank Height: **Medium** ft

7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	1 Low	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	5

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Jones Pond Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T7.01-S3.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins up Edwards rd 2.23 mi on left (SW).**

1.1 Reach Description:
1.2 Towns: **Chelsea**
1.3 Downstream Latitude: **44.04774**
1.3 Downstream Longitude: **-72.51329**

Step 2. Stream Type

2.1 Elevation Upstream: **1,680**
2.1 Elevation Downstream: **1,510**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **1,959.0** ft. **0.37** Miles
2.3 Valley Slope: **8.7**
2.4 Channel Length: **2,225.0** ft. **0.42** Miles
2.5 Channel Slope: **7.64 %**
2.6 Sinuosity: **1.14**
2.7 Watershed Area: **0.2** Square Miles
2.8 Channel Width: **6.6** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Hilly**
3.4 Valley Slope Right: **Steep**
3.5 Soils
Hydrologic Group: **D** **75.0** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **99.6** %
Water Table Shallow: **0.0** **75.0** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Small stream.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **71.5** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Crop** **40.7** %
Current Sub-Dominant Land Cover: **Forest**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**51-100**	**0-25**
Sub-dominant:	**>100**	**>100**
Length w / less than 25 ft.:	**111.0** ft.	**1,335.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	1 Low	0 N.S.	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Chelsea Road Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T8.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just S of intersection of Rt 110 and Chelsea Rd. Ends 1.47 mi up Chelsea Rd on left (West).**

1.1 Reach Description:
1.2 Towns: **Washington**
1.3 Downstream Latitude: **44.04717**
1.3 Downstream Longitude: **-72.47679**

Step 2. Stream Type

2.1 Elevation Upstream: **1,349**
2.1 Elevation Downstream: **1,047**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **6,836.0** ft. **1.29** Miles
2.3 Valley Slope: **4.4**
2.4 Channel Length: **7,710.0** ft. **1.46** Miles
2.5 Channel Slope: **3.92 %**
2.6 Sinuosity: **1.13**
2.7 Watershed Area: **5.2** Square Miles
2.8 Channel Width: **27.0** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Boulder**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **67.9** %
3.3 Sub-dom. Geological Mat.: **Ice-Contact**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **D** **54.2** %
Flooding: **None/Rare** **89.4** %
Water Table Deep: **2.0** **55.9** %
Water Table Shallow: **0.0** **53.7** %
Erodibility: **Very Severe** **76.3** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **84.9** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **56.2** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**3,006.0** ft.	**2,929.0** ft.

4.4 Ground Water Inputs: **Minimal**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **2,930.0** ft. **38.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	8

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Chelsea Road Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T8.01-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins at intersection of Chelsea Rd and Stellar Rd and heads N.**

1.1 Reach Description:
1.2 Towns: **Washington, Williamstown**
1.3 Downstream Latitude: **44.05115**
1.3 Downstream Longitude: **-72.48499**

Step 2. Stream Type

2.1 Elevation Upstream: **1,640**
2.1 Elevation Downstream: **1,170**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **11,266.0** ft. **2.13** Miles
2.3 Valley Slope: **4.2**
2.4 Channel Length: **11,776.0** ft. **2.23** Miles
2.5 Channel Slope: **3.99 %**
2.6 Sinuosity: **1.05**
2.7 Watershed Area: **2.3** Square Miles
2.8 Channel Width: **18.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Semi-confined**
2.11 Reference Stream Type: **B**
Bedform: **Step-Pool**
Sub-Class Slope: **a**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **Ledge**
3.3 Dominant Geological Mat.: **Till** **80.8** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **54.2** %
Flooding: **None/Rare** **81.9** %
Water Table Deep: **2.0** **76.4** %
Water Table Shallow: **1.0** **54.2** %
Erodibility: **Very Severe** **81.9** %
7.4 Comments:
Bifurcated flow.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **80.8** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **52.6** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**2,944.0** ft.	**824.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **3** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **236.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **Culvert**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	1 Low	7

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Chelsea Road Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T8.02**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.47 miles up Chelsea Rd on left (West). Ends just after wetlands.**

1.1 Reach Description:
1.2 Towns: **Washington, Williamstown**
1.3 Downstream Latitude: **44.06179**
1.3 Downstream Longitude: **-72.49022**

Step 2. Stream Type

2.1 Elevation Upstream: **1,385**
2.1 Elevation Downstream: **1,349**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **3,171.0** ft. **0.60** Miles
2.3 Valley Slope: **1.1**
2.4 Channel Length: **3,541.0** ft. **0.67** Miles
2.5 Channel Slope: **1.02 %**
2.6 Sinuosity: **1.12**
2.7 Watershed Area: **2.3** Square Miles
2.8 Channel Width: **18.8** feet
2.9 Valley Width: **338.0** feet
2.10 Confinement Ratio: **18.0**
2.10 Confinement Type: **Very Broad**
2.11 Reference Stream Type: **E**
Bedform: **Riffle-Pool**
Sub-Class Slope: **none**
Bed Material: **Gravel**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **75.5** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Ext. Steep**
3.4 Valley Slope Right: **Ext. Steep**
3.5 Soils
Hydrologic Group: **D** **83.1** %
Flooding: **None/Rare** **75.5** %
Water Table Deep: **2.0** **66.4** %
Water Table Shallow: **0.0** **83.1** %
Erodibility: **Very Severe** **75.5** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **88.8** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **75.3** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**0-25**	**0-25**
Length w / less than 25 ft.:	**354.0** ft.	**247.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **1** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **353.0** ft. **10.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **Migration**
6.5 Meander Width: **74 ft.** Rato: **3.9**
6.6 Wavelength: **153 ft.** Ratio: **8.1**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Medium** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	2 High	1 Low	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	1 Low	0 N.S.	0 N.S.	0 N.S.	6

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Unnamed Trib to Chelsea Road Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T8.02-S1.01**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins 1.32 mi up Chelsea Rd on right (East). Ends 2.17 mi up Chelsea Rd on right (West).**

1.1 Reach Description:
1.2 Towns: **Washington, Williamstown**
1.3 Downstream Latitude: **44.06613**
1.3 Downstream Longitude: **-72.49191**

Step 2. Stream Type

2.1 Elevation Upstream: **1,547**
2.1 Elevation Downstream: **1,355**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **2,390.0** ft. **0.45** Miles
2.3 Valley Slope: **8.0**
2.4 Channel Length: **2,535.0** ft. **0.48** Miles
2.5 Channel Slope: **7.57 %**
2.6 Sinuosity: **1.06**
2.7 Watershed Area: **0.5** Square Miles
2.8 Channel Width: **9.3** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Cascade**
Sub-Class Slope: **none**
Bed Material: **Cobble**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **96.9** %
3.3 Sub-dom. Geological Mat.: **Alluvial**
3.4 Valley Slope Left: **Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **C** **67.4** %
Flooding: **None/Rare** **96.9** %
Water Table Deep: **2.0** **96.9** %
Water Table Shallow: **1.0** **67.4** %
Erodibility: **Very Severe** **96.9** %
7.4 Comments:

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **74.5** %
Current Sub-Dominant Land Cover: **Crop**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **43.1** %
Current Sub-Dominant Land Cover: **Urban**

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**0-25**
Length w / less than 25 ft.:	**507.0** ft.	**354.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **2** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **549.0** ft. **21.7**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **Mid-channel**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **Low** ft
7.3 Ice/Debris Jam Potential: **None**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
2 High	2 High	2 High	0 N.S.	0 Unk.	0 Unk.	0 Unk.	0 N.S.	2 High	0 N.S.	1 Low	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	9

White River - First Branch

Phase 1 - Reach Summary Report

Basin: **White**
Stream Name: **Chelsea Road Brook**
Topo Maps: **Washington, Brookfield, Chelsea, Randolph Center, Sharon, S Royalton**
Watershed: **White River**
Sub-watershed: **First Branch White River**

Reach ID: **T8.03**
SGAT Version: **3**
Date Last Edited:
QA Status: **Step 7 done**
Is Reach An Impoundment?: **#Error**

Step 1. Reach Location **Begins just after wetlands to east of Chelsea Rd.**

1.1 Reach Description:
1.2 Towns: **Williamstown**
1.3 Downstream Latitude: **44.07013**
1.3 Downstream Longitude: **-72.49302**

Step 2. Stream Type

2.1 Elevation Upstream: **1,677**
2.1 Elevation Downstream: **1,386**
2.1 Is Gradient Gentle?: **#Error**
2.2 Valley Length: **5,817.0** ft. **1.10** Miles
2.3 Valley Slope: **5.0**
2.4 Channel Length: **6,375.0** ft. **1.21** Miles
2.5 Channel Slope: **4.56 %**
2.6 Sinuosity: **1.10**
2.7 Watershed Area: **1.6** Square Miles
2.8 Channel Width: **15.9** feet
2.9 Valley Width: feet
2.10 Confinement Ratio: **0.0**
2.10 Confinement Type: **Narrowly Confined**
2.11 Reference Stream Type: **A**
Bedform: **Step-Pool**
Sub-Class Slope: **none**
Bed Material: **No Data**

Step 3. Basin Charateristicts

3.1 Alluvial Fan: **None**
3.2 Grade Control: **None**
3.3 Dominant Geological Mat.: **Till** **100.0** %
3.3 Sub-dom. Geological Mat.:
3.4 Valley Slope Left: **Very Steep**
3.4 Valley Slope Right: **Very Steep**
3.5 Soils
Hydrologic Group: **D** **92.3** %
Flooding: **None/Rare** **100.0** %
Water Table Deep: **2.0** **97.6** %
Water Table Shallow: **0.0** **92.3** %
Erodibility: **Very Severe** **100.0** %
7.4 Comments:
Reach not visible for windshield survey.

Step 4. Land Cover - Reach Hydrology

4.1 Watershed
Historic Land Cover: **Forest**
Current Dominant Land Cover: **Forest** **93.2** %
Current Sub-Dominant Land Cover: **Urban**
4.2 Corridor
Historic Land Cover:: **Forest**
Current Dominant Land Cover: **Forest** **100.** %
Current Sub-Dominant Land Cover:

4.3 Riparian Buffer	Left Bank	Right Bank
Dominant:	**>100**	**>100**
Sub-dominant:	**51-100**	**51-100**
Length w / less than 25 ft.:	**0.0** ft.	**0.0** ft.

4.4 Ground Water Inputs: **Abundant**

Step 5. Instream Channel Modifications

5.1 Flow Regulation - (old):
Type: **None**
Use:
5.2 Bridges and Culverts: **0** **0.0** %
5.3 Bank Armoring: **0.0** %
Left: ft. Right: ft.
5.4 Channel Straightening: **0.0** %
5.5 Dredging History: **None**

Step 6. Floodplain Modifications

6.1 Berms & Roads - old: **0.0** ft. **0.0**

	One Side	Both Sides
Road:	ft.	ft.
Railroad:	ft.	ft.
Berm:	ft.	ft.
Improved Path:	ft.	ft.

6.2 Development: **0.0** ft. **0.0** ft.
6.3 Channel Bars: **None**
6.4 Meander Migration: **None**
6.5 Meander Width: **ft.** Rato: **0.0**
6.6 Wavelength: **ft.** Ratio: **0.0**

Step 7. Windshield Survey

7.1 Bank Erosion: ft
7.2 Bank Height: **No Data** ft
7.3 Ice/Debris Jam Potential: **No Data**

4.1	4.2	4.3	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5	6.6	7.1	7.3	Total
1 Low	0 N.S.	0 N.S.	0 N.S.	0 N.S.	0 Unk.	0 Unk.	0 N.S.	0 Unk.	0 N.S.	0 N.S.	0 N.S.	0 N.D.	0 N.D.	0 N.S.	0 N.S.	1