



# Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov  
April, 08 2026

## Phase 2 - FIT - Legacy Data Report

## Johns River

SGAT Version: **4.53**

Reach: **M06 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u> |              |
|-------------|--------------------------------|--------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>  |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>  |
|             | Berm Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Path Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Road Length (ft.):             | <b>276.6</b> | <b>0.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Development Length:            | <b>0.0</b>   | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Revetment Type:                | <b>None</b>  | <b>None</b>  |
|             | Revetment length:              | <b>0.0</b>   | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>     | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Height (ft.):          |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Average Height (ft.):          |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|-----------------------------|--------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>     |
| 4.7         | Stormwater Inputs           |              |
| 4.9         | Beaver Dams:                | <b>6</b>     |
|             | Affected length:            | <b>1700</b>  |
| 5.2         | Migration Features          |              |
|             | Flood Chutes:               | <b>0</b>     |
|             | Neck Cutoffs:               | <b>0</b>     |
|             | Channel Avulsions:          | <b>0</b>     |
|             | Braiding:                   | <b>0</b>     |
| 5.3         | Steep Riffles and Head Cuts |              |
|             | Steep Riffles:              | <b>0</b>     |
|             | Head Cuts:                  | <b>0</b>     |
| 5.4         | Animal Crossings:           | <b>No</b>    |
| 5.5         | Channel Alterations         |              |
|             | Straightening:              | <b>None</b>  |
|             | Dredging:                   | <b>None</b>  |



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SGAT Version: **4.53**

Reach: **T1.02 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>   |              | <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|--------------------------------|----------------|--------------|-------------|-----------------------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>    |              | 4.4         | Number of Debris Jams:      | <b>3</b>     |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>     | <u>Both</u>  | 4.7         | Stormwater Inputs           |              |
|             | Berm Length (ft.):             | <b>0.0</b>     | <b>0.0</b>   | 4.9         | Beaver Dams:                | <b>0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>     | <b>0.0</b>   |             | Affected length:            | <b>0</b>     |
|             | Road Length (ft.):             | <b>1,951.8</b> | <b>0.0</b>   | 5.2         | Migration Features          |              |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>   |             | Flood Chutes:               | <b>1</b>     |
|             | Development Length:            | <b>0.0</b>     | <b>0.0</b>   |             | Neck Cutoffs:               | <b>0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u> |             | Channel Avulsions:          | <b>1</b>     |
|             | Erosion Length (ft.):          | <b>126.5</b>   | <b>296.1</b> |             | Braiding:                   | <b>0</b>     |
|             | Erosion Height (ft.):          | <b>3.3</b>     | <b>2.7</b>   | 5.3         | Steep Riffles and Head Cuts |              |
|             | Revetment Type:                | <b>None</b>    | <b>None</b>  |             | Steep Riffles:              | <b>0</b>     |
|             | Revetment length:              | <b>0.0</b>     | <b>0.0</b>   |             | Head Cuts:                  | <b>0</b>     |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>0</b>     | 5.4         | Animal Crossings:           | <b>No</b>    |
| 3.3         | <u>Riparian Corridor</u>       |                |              | 5.5         | Channel Alterations         |              |
|             | Mass Failures:                 | <b>One</b>     |              |             | Straightening:              | <b>None</b>  |
|             | Average Height (ft.):          | <b>15.0</b>    |              |             | Dredging:                   | <b>None</b>  |
|             | Gullies:                       | <b>None</b>    |              |             |                             |              |
|             | Average Height (ft.):          |                |              |             |                             |              |



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## Johns River

SGAT Version: **4.53**

Reach: **M02 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u> |              |
|-------------|--------------------------------|--------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>  |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>  |
|             | Berm Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Path Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Road Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>   | <b>0.0</b>   |
|             | Development Length:            | <b>0.0</b>   | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>0.0</b>   | <b>176.7</b> |
|             | Erosion Height (ft.):          | <b>0.0</b>   | <b>3.8</b>   |
|             | Revetment Type:                | <b>None</b>  | <b>None</b>  |
|             | Revetment length:              | <b>0.0</b>   | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>     | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Height (ft.):          |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Average Height (ft.):          |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|-----------------------------|--------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>     |
| 4.7         | Stormwater Inputs           |              |
| 4.9         | Beaver Dams:                | <b>4</b>     |
|             | Affected length:            | <b>1000</b>  |
| 5.2         | Migration Features          |              |
|             | Flood Chutes:               | <b>1</b>     |
|             | Neck Cutoffs:               | <b>0</b>     |
|             | Channel Avulsions:          | <b>0</b>     |
|             | Braiding:                   | <b>0</b>     |
| 5.3         | Steep Riffles and Head Cuts |              |
|             | Steep Riffles:              | <b>0</b>     |
|             | Head Cuts:                  | <b>0</b>     |
| 5.4         | Animal Crossings:           | <b>No</b>    |
| 5.5         | Channel Alterations         |              |
|             | Straightening:              | <b>None</b>  |
|             | Dredging:                   | <b>None</b>  |



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## Phase 2 - FIT - Legacy Data Report

## Johns River

SGAT Version: **4.53**

Reach: **M04 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>    |                |
|-------------|--------------------------------|-----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>     |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>      | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>504.6</b>    | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>      | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>708.2</b>    | <b>1,403.7</b> |
|             | Erosion Height (ft.):          | <b>3.3</b>      | <b>3.0</b>     |
|             | Revetment Type:                | <b>Multiple</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>244.7</b>    | <b>144.2</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>2328</b>     | <b>2418</b>    |
| 3.3         | <u>Riparian Corridor</u>       |                 |                |
|             | Mass Failures:                 | <b>None</b>     |                |
|             | Average Height (ft.):          |                 |                |
|             | Gullies:                       | <b>None</b>     |                |
|             | Average Height (ft.):          |                 |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>             |
| 4.7         | Stormwater Inputs           |                      |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>0</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>1</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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SGAT Version: **4.53**

Reach: **T1.01 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>     |              |
|-------------|--------------------------------|------------------|--------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>      |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>       | <u>Both</u>  |
|             | Berm Length (ft.):             | <b>0.0</b>       | <b>0.0</b>   |
|             | Path Length (ft.):             | <b>0.0</b>       | <b>0.0</b>   |
|             | Road Length (ft.):             | <b>1,755.8</b>   | <b>0.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>       | <b>0.0</b>   |
|             | Development Length:            | <b>0.0</b>       | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>      | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>63.4</b>      | <b>98.6</b>  |
|             | Erosion Height (ft.):          | <b>3.6</b>       | <b>2.9</b>   |
|             | Revetment Type:                | <b>Hard Bank</b> | <b>None</b>  |
|             | Revetment length:              | <b>63.4</b>      | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>642</b>       | <b>647</b>   |
| 3.3         | <u>Riparian Corridor</u>       |                  |              |
|             | Mass Failures:                 | <b>None</b>      |              |
|             | Average Height (ft.):          |                  |              |
|             | Gullies:                       | <b>None</b>      |              |
|             | Average Height (ft.):          |                  |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>             |
| 4.7         | Stormwater Inputs           |                      |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length:            | <b>0</b>             |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>0</b>             |
|             | Neck Cutoffs:               | <b>0</b>             |
|             | Channel Avulsions:          | <b>0</b>             |
|             | Braiding:                   | <b>0</b>             |
| 5.3         | Steep Riffles and Head Cuts |                      |
|             | Steep Riffles:              | <b>0</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Dredging:                   | <b>None</b>          |



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Reach: **M05 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u>    |                |
|-------------|--------------------------------|-----------------|----------------|
| 1.2         | Alluvial Fan:                  | <b>None</b>     |                |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>      | <u>Both</u>    |
|             | Berm Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>1,177.0</b>  | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Development Length:            | <b>0.0</b>      | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>38.6</b>     | <b>222.4</b>   |
|             | Erosion Height (ft.):          | <b>6.0</b>      | <b>4.6</b>     |
|             | Revetment Type:                | <b>Multiple</b> | <b>Rip-Rap</b> |
|             | Revetment length:              | <b>195.7</b>    | <b>265.1</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>317</b>      | <b>662</b>     |
| 3.3         | <u>Riparian Corridor</u>       |                 |                |
|             | Mass Failures:                 | <b>None</b>     |                |
|             | Average Height (ft.):          |                 |                |
|             | Gullies:                       | <b>None</b>     |                |
|             | Average Height (ft.):          |                 |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u> |
|-------------|-----------------------------|--------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>     |
| 4.7         | Stormwater Inputs           |              |
| 4.9         | Beaver Dams:                | <b>0</b>     |
|             | Affected length:            | <b>0</b>     |
| 5.2         | Migration Features          |              |
|             | Flood Chutes:               | <b>0</b>     |
|             | Neck Cutoffs:               | <b>0</b>     |
|             | Channel Avulsions:          | <b>0</b>     |
|             | Braiding:                   | <b>0</b>     |
| 5.3         | Steep Riffles and Head Cuts |              |
|             | Steep Riffles:              | <b>0</b>     |
|             | Head Cuts:                  | <b>0</b>     |
| 5.4         | Animal Crossings:           | <b>No</b>    |
| 5.5         | Channel Alterations         |              |
|             | Straightening:              | <b>None</b>  |
|             | Dredging:                   | <b>None</b>  |