



# Stream Geomorphic Assessment

Agency of Natural Resources



Vermont.gov  
April, 08 2026

## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M11 -B**

| <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>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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>         |
| 4.5         | Flow Regulation Type:       | <b>None</b>      |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                | <b>3</b>         |
|             | Affected length (ft.):      | <b>4,600.0</b>   |
| 5.2         | Migration Features          |                  |
|             | Flood Chutes:               | <b>0</b>         |
|             | Neck Cutoffs:               | <b>1</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>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |



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Muddy Brook

SGAT Version: 4.56

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>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>71.3</b>  | <b>74.7</b>  |
|             | Erosion Height (ft.):          | <b>3.0</b>   | <b>3.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 | <b>24.47</b> |              |
|             | Average Height (ft.):          | <b>10.0</b>  |              |
|             | Mass Failures:                 | <b>One</b>   |              |
|             | Average Heigh (ft.):           | <b>10.0</b>  |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>1</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **M08 -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>100.6</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>322.1</b>   | <b>167.8</b>   |
|             | Erosion Height (ft.):          | <b>5.0</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>85.5</b>    | <b>82.8</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>194</b>     | <b>95</b>      |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>1</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>1</b>                  |
|             | Affected length (ft.):      | <b>1,000.0</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **T2.01 -B**

| <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>1.6</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>1</b> |
| 4.9         | Beaver Dams:                | <b>1</b>                  |
|             | Affected length (ft.):      | <b>1,500.0</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **M15 -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>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>751</b>   | <b>604</b>   |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>1</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: **M19 -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>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>1886</b>  | <b>1895</b>  |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>           |
|-------------|-----------------------------|------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>               |
| 4.5         | Flow Regulation Type:       | <b>None</b>            |
|             | Use:                        |                        |
| 4.7         | Stormwater Inputs           |                        |
|             | Overland Flow               | Road Ditch             |
|             | Field Ditch                 | Tile Drain             |
|             | Other                       | Ub Strm Wtr Pipe       |
| 4.9         | Beaver Dams:                | <b>0</b>               |
|             | Affected length (ft.):      | <b>0.0</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>Yes</b>             |
| 5.5         | Channel Alterations         |                        |
|             | Straightening:              | <b>With Windrowing</b> |
|             | Length (ft.):               | <b>1,402.2</b>         |
|             | Dredging:                   | <b>None</b>            |



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## Muddy Brook

SGAT Version: **4.56**

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>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>59.8</b>  | <b>214.2</b> |
|             | Erosion Height (ft.):          | <b>3.0</b>   | <b>3.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 | <b>71.87</b> |              |
|             | Average Height (ft.):          | <b>20.0</b>  |              |
|             | Mass Failures:                 | <b>One</b>   |              |
|             | Average Heigh (ft.):           | <b>20.0</b>  |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>1</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



# Stream Geomorphic Assessment

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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

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>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>59.8</b>  | <b>214.2</b> |
|             | Erosion Height (ft.):          | <b>3.0</b>   | <b>3.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 | <b>71.87</b> |              |
|             | Average Height (ft.):          | <b>20.0</b>  |              |
|             | Mass Failures:                 | <b>One</b>   |              |
|             | Average Heigh (ft.):           | <b>20.0</b>  |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>1</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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Muddy Brook

SGAT Version: 4.56

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>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>59.8</b>  | <b>214.2</b> |
|             | Erosion Height (ft.):          | <b>3.0</b>   | <b>3.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 | <b>71.87</b> |              |
|             | Average Height (ft.):          | <b>20.0</b>  |              |
|             | Mass Failures:                 | <b>One</b>   |              |
|             | Average Heigh (ft.):           | <b>20.0</b>  |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>1</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M01 -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>71.1</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>95.1</b>  | <b>290.2</b> |
|             | Erosion Height (ft.):          | <b>4.0</b>   | <b>7.3</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>283</b>   | <b>258</b>   |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>1</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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Muddy Brook

SGAT Version: 4.56

Reach: **M03 -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>69.5</b> <b>0.0</b>        |
|             | Erosion Height (ft.):          | <b>5.0</b> <b>0.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>86.6</b> <b>90.0</b>       |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b> <b>0</b>             |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>294.01</b>                 |
|             | Average Height (ft.):          | <b>19.1</b>                   |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>20.3</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              |                               |
|             | Total Length of Gullies (ft.): |                               |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>4</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **M03 -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>69.5</b> <b>0.0</b>        |
|             | Erosion Height (ft.):          | <b>5.0</b> <b>0.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>86.6</b> <b>90.0</b>       |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b> <b>0</b>             |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>294.01</b>                 |
|             | Average Height (ft.):          | <b>19.1</b>                   |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>20.3</b>                   |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              |                               |
|             | Total Length of Gullies (ft.): |                               |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>0</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>5</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</b>                         |
| 5.2         | Migration Features          |                                    |
|             | Flood Chutes:               | <b>2</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>                        |
|             | Length (ft.):               | <b>0.0</b>                         |
|             | Dredging:                   | <b>None</b>                        |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M10 -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>184.4</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>796.1</b>   | <b>625.7</b>   |
|             | Erosion Height (ft.):          | <b>4.7</b>     | <b>4.8</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>289.0</b>   | <b>20.6</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>474</b>     | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>2</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>467.0</b>              |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: M12 -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>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>332</b>   | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>         |
| 4.5         | Flow Regulation Type:       | <b>None</b>      |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                | <b>0</b>         |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **M13 -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>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>214</b>   | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>         |
| 4.5         | Flow Regulation Type:       | <b>None</b>      |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                | <b>0</b>         |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |



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Muddy Brook

SGAT Version: 4.56

Reach: **M18 -0**

| <u>Step</u> | <u>Description</u>             | <u>Value</u> |              |
|-------------|--------------------------------|--------------|--------------|
| 1.2         | Alluvial Fan:                  |              |              |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>  |
|             | Berm Length (ft.):             |              |              |
|             | Path Length (ft.):             |              |              |
|             | Road Length (ft.):             |              |              |
|             | Railroad Lenth (ft.):          |              |              |
|             | Development Length:            |              |              |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          |              |              |
|             | Erosion Height (ft.):          |              |              |
|             | Revetment Type:                |              |              |
|             | Revetment length               |              |              |
| 3.2         | <u>Buffer Less Than 25 ft.</u> |              |              |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 |              |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       |              |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      |                  |
| 4.5         | Flow Regulation Type:       |                  |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                |                  |
|             | Affected length (ft.):      |                  |
| 5.2         | Migration Features          |                  |
|             | Flood Chutes:               |                  |
|             | Neck Cutoffs:               |                  |
|             | Channel Avulsions:          |                  |
|             | Braiding:                   |                  |
| 5.3         | Steep Riffles and Head Cuts |                  |
|             | Steep Riffles:              |                  |
|             | Head Cuts:                  |                  |
| 5.4         | Animal Crossings:           |                  |
| 5.5         | Channel Alterations         |                  |
|             | Straightening:              |                  |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   |                  |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **T3.01 -B**

| <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>661.9</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>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>97.8</b>    | <b>96.3</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 | <b>47.21</b>   |                |
|             | Average Height (ft.):          | <b>20.0</b>    |                |
|             | Mass Failures:                 | <b>One</b>     |                |
|             | Average Heigh (ft.):           | <b>20.0</b>    |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>2</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>1</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>97.4</b>               |
|             | Dredging:                   | <b>None</b>               |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **T3.01 -C**

| <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>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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>2</b> |
| 4.9         | Beaver Dams:                | <b>1</b>                  |
|             | Affected length (ft.):      | <b>1,223.0</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>Yes</b>                |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>None</b>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **T2.01 -A**

| <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>117.0</b>   | <b>174.8</b>   |
|             | Erosion Height (ft.):          | <b>2.2</b>     | <b>1.6</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>112.1</b>   | <b>114.6</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 | <b>25.98</b>   |                |
|             | Average Height (ft.):          | <b>5.0</b>     |                |
|             | Mass Failures:                 | <b>One</b>     |                |
|             | Average Heigh (ft.):           | <b>5.0</b>     |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>1</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>1</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>192.5</b>              |
|             | Dredging:                   | <b>None</b>               |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **T2.01 -A**

| <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>117.0</b>   | <b>174.8</b>   |
|             | Erosion Height (ft.):          | <b>2.2</b>     | <b>1.6</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>112.1</b>   | <b>114.6</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 | <b>25.98</b>   |                |
|             | Average Height (ft.):          | <b>5.0</b>     |                |
|             | Mass Failures:                 | <b>One</b>     |                |
|             | Average Heigh (ft.):           | <b>5.0</b>     |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>1</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>1</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>192.5</b>              |
|             | Dredging:                   | <b>None</b>               |



# Stream Geomorphic Assessment

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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M07 -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>537.2</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>388.7</b>   | <b>306.7</b>   |
|             | Erosion Height (ft.):          | <b>3.9</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>181.4</b>   | <b>172.5</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>99</b>      | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | <b>0</b>             |
|             | Road Ditch                  | <b>0</b>             |
|             | Field Ditch                 | <b>0</b>             |
|             | Tile Drain                  | <b>0</b>             |
|             | Other                       | <b>3</b>             |
|             | Ub Strm Wtr Pipe            | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</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>1</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>2,167.4</b>       |
|             | Dredging:                   | <b>None</b>          |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M07 -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>537.2</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>388.7</b>   | <b>306.7</b>   |
|             | Erosion Height (ft.):          | <b>3.9</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>181.4</b>   | <b>172.5</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>99</b>      | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | <b>0</b>             |
|             | Road Ditch                  | <b>1</b>             |
|             | Field Ditch                 | <b>0</b>             |
|             | Tile Drain                  | <b>0</b>             |
|             | Other                       | <b>0</b>             |
|             | Ub Strm Wtr Pipe            | <b>0</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</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>1</b>             |
|             | Head Cuts:                  | <b>0</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>2,167.4</b>       |
|             | Dredging:                   | <b>None</b>          |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M07 -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>537.2</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>388.7</b>   | <b>306.7</b>   |
|             | Erosion Height (ft.):          | <b>3.9</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>181.4</b>   | <b>172.5</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>99</b>      | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 |                |                |
|             | Average Height (ft.):          |                |                |
|             | Mass Failures:                 | <b>None</b>    |                |
|             | Average Heigh (ft.):           |                |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>2</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>1</b>                  |
|             | Head Cuts:                  | <b>0</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>2,167.4</b>            |
|             | Dredging:                   | <b>None</b>               |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M09 -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>373.7</b> | <b>188.2</b> |
|             | Erosion Height (ft.):          | <b>3.2</b>   | <b>3.7</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      | <b>8</b>         |
| 4.5         | Flow Regulation Type:       | <b>None</b>      |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                | <b>0</b>         |
|             | Affected length (ft.):      | <b>0.0</b>       |
| 5.2         | Migration Features          |                  |
|             | Flood Chutes:               | <b>3</b>         |
|             | Neck Cutoffs:               | <b>2</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>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |



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## Muddy Brook

SGAT Version: **4.56**

Reach: **M14 -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>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>272</b>   | <b>1620</b>  |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>         |
| 4.5         | Flow Regulation Type:       | <b>None</b>      |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                | <b>0</b>         |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

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>1,154.2</b>   | <b>836.5</b>   |
|             | Erosion Height (ft.):          | <b>4.5</b>       | <b>5.4</b>     |
|             | Revetment Type:                | <b>Hard Bank</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>36.7</b>      | <b>143.2</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>         | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>      | <u>Right</u>   |
|             | Mass Failures:                 | <b>51.35</b>     | <b>341.85</b>  |
|             | Average Height (ft.):          | <b>20.0</b>      | <b>27.7</b>    |
|             | Mass Failures:                 | <b>Multiple</b>  |                |
|             | Average Heigh (ft.):           | <b>24.3</b>      |                |
|             | Gullies:                       | <b>None</b>      |                |
|             | Number of Gullies              |                  |                |
|             | Total Length of Gullies (ft.): |                  |                |
|             | Average Height of Gullies      |                  |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>1</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</b>                  |
|             | Neck Cutoffs:               | <b>1</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>1</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>1,021.8</b>            |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: T3.01 -A

| <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>222.2</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>156.2</b> <b>113.4</b> |
|             | Erosion Height (ft.):          | <b>4.1</b> <b>3.9</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>       | <u>Left</u> <u>Right</u>  |
|             | Mass Failures:                 | <b>72.01</b>              |
|             | Average Height (ft.):          | <b>11.1</b>               |
|             | Mass Failures:                 | <b>Multiple</b>           |
|             | Average Heigh (ft.):           | <b>11.0</b>               |
|             | Gullies:                       | <b>None</b>               |
|             | Number of Gullies              |                           |
|             | Total Length of Gullies (ft.): |                           |
|             | Average Height of Gullies      |                           |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>5</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>1</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>996.4</b>              |
|             | Dredging:                   | <b>None</b>               |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **T3.01 -A**

| <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>222.2</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>156.2</b> <b>113.4</b> |
|             | Erosion Height (ft.):          | <b>4.1</b> <b>3.9</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>       | <u>Left</u> <u>Right</u>  |
|             | Mass Failures:                 | <b>72.01</b>              |
|             | Average Height (ft.):          | <b>11.1</b>               |
|             | Mass Failures:                 | <b>Multiple</b>           |
|             | Average Heigh (ft.):           | <b>11.0</b>               |
|             | Gullies:                       | <b>None</b>               |
|             | Number of Gullies              |                           |
|             | Total Length of Gullies (ft.): |                           |
|             | Average Height of Gullies      |                           |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>5</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>3</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>996.4</b>              |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: T3.01 -D

| <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>4</b>         |          |
| 1.3         | <u>Encroachments - Side</u>    | <u>One</u>   | <u>Both</u>  | 4.5                | Flow Regulation Type:       | <b>None</b>      |          |
|             | Berm Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   |                    | Use:                        |                  |          |
|             | Path Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   | 4.7                | Stormwater Inputs           |                  |          |
|             | Road Length (ft.):             | <b>0.0</b>   | <b>0.0</b>   | Overland Flow      | <b>0</b>                    | Road Ditch       | <b>0</b> |
|             | Railroad Lenth (ft.):          | <b>0.0</b>   | <b>0.0</b>   | Field Ditch        | <b>0</b>                    | Tile Drain       | <b>0</b> |
|             | Development Length:            | <b>274.7</b> | <b>0.0</b>   | Other              | <b>1</b>                    | Ub Strm Wtr Pipe | <b>0</b> |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> | 4.9                | Beaver Dams:                | <b>0</b>         |          |
|             | Erosion Length (ft.):          | <b>69.0</b>  | <b>43.6</b>  |                    | Affected length (ft.):      | <b>0.0</b>       |          |
|             | Erosion Height (ft.):          | <b>4.0</b>   | <b>4.0</b>   | 5.2                | Migration Features          |                  |          |
|             | Revetment Type:                | <b>None</b>  | <b>None</b>  | Flood Chutes:      | <b>1</b>                    |                  |          |
|             | Revetment length               | <b>0.0</b>   | <b>0.0</b>   | Neck Cutoffs:      | <b>1</b>                    |                  |          |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>     | <b>0</b>     | Channel Avulsions: | <b>0</b>                    |                  |          |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> | Braiding:          | <b>0</b>                    |                  |          |
|             | Mass Failures:                 |              |              | 5.3                | Steep Riffles and Head Cuts |                  |          |
|             | Average Height (ft.):          |              |              | Steep Riffles:     | <b>0</b>                    |                  |          |
|             | Mass Failures:                 | <b>None</b>  |              | Head Cuts:         | <b>0</b>                    |                  |          |
|             | Average Heigh (ft.):           |              |              | 5.4                | Animal Crossings:           | <b>No</b>        |          |
|             | Gullies:                       | <b>None</b>  |              | 5.5                | Channel Alterations         |                  |          |
|             | Number of Gullies              |              |              | Straightening:     | <b>Straightening</b>        |                  |          |
|             | Total Length of Gullies (ft.): |              |              | Length (ft.):      | <b>217.6</b>                |                  |          |
|             | Average Height of Gullies      |              |              | Dredging:          | <b>None</b>                 |                  |          |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: T3.01 -D

| <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>274.7</b> | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>  | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>69.0</b>  | <b>43.6</b>  |
|             | Erosion Height (ft.):          | <b>4.0</b>   | <b>4.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | <b>0</b>             |
|             | Road Ditch                  | <b>0</b>             |
|             | Field Ditch                 | <b>0</b>             |
|             | Tile Drain                  | <b>0</b>             |
|             | Other                       | <b>0</b>             |
|             | Ub Strm Wtr Pipe            | <b>1</b>             |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</b>           |
| 5.2         | Migration Features          |                      |
|             | Flood Chutes:               | <b>1</b>             |
|             | Neck Cutoffs:               | <b>1</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> |
|             | Length (ft.):               | <b>217.6</b>         |
|             | Dredging:                   | <b>None</b>          |



# Stream Geomorphic Assessment

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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **M20 -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>85.5</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>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>524</b>   | <b>623</b>   |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>           |
|-------------|-----------------------------|------------------------|
| 4.4         | Number of Debris Jams:      | <b>3</b>               |
| 4.5         | Flow Regulation Type:       | <b>None</b>            |
|             | Use:                        |                        |
| 4.7         | Stormwater Inputs           |                        |
|             | Overland Flow               | Road Ditch             |
|             | Field Ditch                 | Tile Drain             |
|             | Other                       | Ub Strm Wtr Pipe       |
| 4.9         | Beaver Dams:                | <b>0</b>               |
|             | Affected length (ft.):      | <b>0.0</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>Yes</b>             |
| 5.5         | Channel Alterations         |                        |
|             | Straightening:              | <b>With Windrowing</b> |
|             | Length (ft.):               | <b>2,725.4</b>         |
|             | Dredging:                   | <b>None</b>            |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

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>0.0</b>     | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>138.4</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>140.2</b>   | <b>40.8</b>    |
|             | Erosion Height (ft.):          | <b>2.7</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>55.7</b>    | <b>27.2</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 | <b>53.68</b>   |                |
|             | Average Height (ft.):          | <b>25.0</b>    |                |
|             | Mass Failures:                 | <b>One</b>     |                |
|             | Average Heigh (ft.):           | <b>25.0</b>    |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>1</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

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>0.0</b>     | <b>0.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b>     | <b>0.0</b>     |
|             | Development Length:            | <b>138.4</b>   | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>140.2</b>   | <b>40.8</b>    |
|             | Erosion Height (ft.):          | <b>2.7</b>     | <b>4.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>Rip-Rap</b> |
|             | Revetment length               | <b>55.7</b>    | <b>27.2</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>0</b>       | <b>0</b>       |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u>   |
|             | Mass Failures:                 | <b>53.68</b>   |                |
|             | Average Height (ft.):          | <b>25.0</b>    |                |
|             | Mass Failures:                 | <b>One</b>     |                |
|             | Average Heigh (ft.):           | <b>25.0</b>    |                |
|             | Gullies:                       | <b>None</b>    |                |
|             | Number of Gullies              |                |                |
|             | Total Length of Gullies (ft.): |                |                |
|             | Average Height of Gullies      |                |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>2</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</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>               |
|             | Length (ft.):               | <b>0.0</b>                |
|             | Dredging:                   | <b>None</b>               |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **T3.02 -B**

| <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>435.4</b>    | <b>0.0</b>     |
|             | Path Length (ft.):             | <b>0.0</b>      | <b>0.0</b>     |
|             | Road Length (ft.):             | <b>580.1</b>    | <b>914.0</b>   |
|             | Railroad Lenth (ft.):          | <b>0.0</b>      | <b>0.0</b>     |
|             | Development Length:            | <b>1,858.7</b>  | <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>     | <u>Right</u>   |
|             | Erosion Length (ft.):          | <b>28.8</b>     | <b>79.1</b>    |
|             | Erosion Height (ft.):          | <b>3.0</b>      | <b>3.0</b>     |
|             | Revetment Type:                | <b>Rip-Rap</b>  | <b>Rip-Rap</b> |
|             | Revetment length               | <b>38.6</b>     | <b>37.7</b>    |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1537</b>     | <b>822</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>     | <u>Right</u>   |
|             | Mass Failures:                 | <b>42.79</b>    | <b>37.27</b>   |
|             | Average Height (ft.):          | <b>7.0</b>      | <b>8.0</b>     |
|             | Mass Failures:                 | <b>Multiple</b> |                |
|             | Average Heigh (ft.):           | <b>7.5</b>      |                |
|             | Gullies:                       | <b>None</b>     |                |
|             | Number of Gullies              |                 |                |
|             | Total Length of Gullies (ft.): |                 |                |
|             | Average Height of Gullies      |                 |                |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>2</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>0</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>1</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>2,406.5</b>            |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: T3.02 -B

| <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>435.4</b> <b>0.0</b>       |
|             | Path Length (ft.):             | <b>0.0</b> <b>0.0</b>         |
|             | Road Length (ft.):             | <b>580.1</b> <b>914.0</b>     |
|             | Railroad Lenth (ft.):          | <b>0.0</b> <b>0.0</b>         |
|             | Development Length:            | <b>1,858.7</b> <b>0.0</b>     |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u> <u>Right</u>      |
|             | Erosion Length (ft.):          | <b>28.8</b> <b>79.1</b>       |
|             | Erosion Height (ft.):          | <b>3.0</b> <b>3.0</b>         |
|             | Revetment Type:                | <b>Rip-Rap</b> <b>Rip-Rap</b> |
|             | Revetment length               | <b>38.6</b> <b>37.7</b>       |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>1537</b> <b>822</b>        |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u> <u>Right</u>      |
|             | Mass Failures:                 | <b>42.79</b> <b>37.27</b>     |
|             | Average Height (ft.):          | <b>7.0</b> <b>8.0</b>         |
|             | Mass Failures:                 | <b>Multiple</b>               |
|             | Average Heigh (ft.):           | <b>7.5</b>                    |
|             | Gullies:                       | <b>None</b>                   |
|             | Number of Gullies              |                               |
|             | Total Length of Gullies (ft.): |                               |
|             | Average Height of Gullies      |                               |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>                       |
|-------------|-----------------------------|------------------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                           |
| 4.5         | Flow Regulation Type:       | <b>None</b>                        |
|             | Use:                        |                                    |
| 4.7         | Stormwater Inputs           |                                    |
|             | Overland Flow               | <b>0</b> Road Ditch <b>0</b>       |
|             | Field Ditch                 | <b>0</b> Tile Drain <b>0</b>       |
|             | Other                       | <b>0</b> Ub Strm Wtr Pipe <b>1</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                           |
|             | Affected length (ft.):      | <b>0.0</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>1</b>                           |
| 5.4         | Animal Crossings:           | <b>No</b>                          |
| 5.5         | Channel Alterations         |                                    |
|             | Straightening:              | <b>Straightening</b>               |
|             | Length (ft.):               | <b>2,406.5</b>                     |
|             | Dredging:                   | <b>None</b>                        |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: T3.01 -F

| <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>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>146</b>   | <b>0</b>     |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</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> |
|             | Length (ft.):               | <b>614.2</b>         |
|             | Dredging:                   | <b>None</b>          |



# Stream Geomorphic Assessment

Agency of Natural Resources



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## Phase 2 - FIT - Legacy Data Report

## Muddy Brook

SGAT Version: **4.56**

Reach: **T3.02 -A**

| <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>113.3</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>622.4</b>   | <b>0.0</b>   |
| 3.1         | <u>Erosion - Bank</u>          | <u>Left</u>    | <u>Right</u> |
|             | Erosion Length (ft.):          | <b>175.6</b>   | <b>178.7</b> |
|             | Erosion Height (ft.):          | <b>2.5</b>     | <b>3.5</b>   |
|             | Revetment Type:                | <b>Rip-Rap</b> | <b>None</b>  |
|             | Revetment length               | <b>19.4</b>    | <b>0.0</b>   |
| 3.2         | <u>Buffer Less Than 25 ft.</u> | <b>338</b>     | <b>349</b>   |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>    | <u>Right</u> |
|             | Mass Failures:                 |                |              |
|             | Average Height (ft.):          |                |              |
|             | Mass Failures:                 | <b>None</b>    |              |
|             | Average Heigh (ft.):           |                |              |
|             | Gullies:                       | <b>None</b>    |              |
|             | Number of Gullies              |                |              |
|             | Total Length of Gullies (ft.): |                |              |
|             | Average Height of Gullies      |                |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>1</b>                  |
| 4.5         | Flow Regulation Type:       | <b>None</b>               |
|             | Use:                        |                           |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow <b>0</b>      | Road Ditch <b>0</b>       |
|             | Field Ditch <b>0</b>        | Tile Drain <b>0</b>       |
|             | Other <b>0</b>              | Ub Strm Wtr Pipe <b>2</b> |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</b>                |
| 5.2         | Migration Features          |                           |
|             | Flood Chutes:               | <b>2</b>                  |
|             | Neck Cutoffs:               | <b>1</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>2</b>                  |
| 5.4         | Animal Crossings:           | <b>No</b>                 |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>604.0</b>              |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: **M21 -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>949.4</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>1833</b>  | <b>1690</b>  |
| 3.3         | <u>Riparian Corridor</u>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>              |
|-------------|-----------------------------|---------------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>                  |
| 4.5         | Flow Regulation Type:       | <b>Large Run of River</b> |
|             | Use:                        | <b>Other</b>              |
| 4.7         | Stormwater Inputs           |                           |
|             | Overland Flow               | 0 Road Ditch 0            |
|             | Field Ditch                 | 0 Tile Drain 0            |
|             | Other                       | 0 Ub Strm Wtr Pipe 1      |
| 4.9         | Beaver Dams:                | <b>0</b>                  |
|             | Affected length (ft.):      | <b>0.0</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>Yes</b>                |
| 5.5         | Channel Alterations         |                           |
|             | Straightening:              | <b>Straightening</b>      |
|             | Length (ft.):               | <b>7,496.1</b>            |
|             | Dredging:                   | <b>None</b>               |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: T3.01 -E

| <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>125.7</b> | <b>121.6</b> |
|             | Erosion Height (ft.):          | <b>6.0</b>   | <b>6.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 |              |              |
|             | Average Height (ft.):          |              |              |
|             | Mass Failures:                 | <b>None</b>  |              |
|             | Average Heigh (ft.):           |              |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>         |
|-------------|-----------------------------|----------------------|
| 4.4         | Number of Debris Jams:      | <b>0</b>             |
| 4.5         | Flow Regulation Type:       | <b>None</b>          |
|             | Use:                        |                      |
| 4.7         | Stormwater Inputs           |                      |
|             | Overland Flow               | Road Ditch           |
|             | Field Ditch                 | Tile Drain           |
|             | Other                       | Ub Strm Wtr Pipe     |
| 4.9         | Beaver Dams:                | <b>0</b>             |
|             | Affected length (ft.):      | <b>0.0</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>3</b>             |
| 5.4         | Animal Crossings:           | <b>No</b>            |
| 5.5         | Channel Alterations         |                      |
|             | Straightening:              | <b>Straightening</b> |
|             | Length (ft.):               | <b>440.1</b>         |
|             | Dredging:                   | <b>None</b>          |



Phase 2 - FIT - Legacy Data Report

Muddy Brook

SGAT Version: 4.56

Reach: M11 -A

| <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>413.5</b> | <b>54.2</b>  |
|             | Erosion Height (ft.):          | <b>5.0</b>   | <b>5.0</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>       | <u>Left</u>  | <u>Right</u> |
|             | Mass Failures:                 | <b>20.62</b> |              |
|             | Average Height (ft.):          | <b>11.0</b>  |              |
|             | Mass Failures:                 | <b>One</b>   |              |
|             | Average Heigh (ft.):           | <b>11.0</b>  |              |
|             | Gullies:                       | <b>None</b>  |              |
|             | Number of Gullies              |              |              |
|             | Total Length of Gullies (ft.): |              |              |
|             | Average Height of Gullies      |              |              |

| <u>Step</u> | <u>Description</u>          | <u>Value</u>     |
|-------------|-----------------------------|------------------|
| 4.4         | Number of Debris Jams:      | <b>4</b>         |
| 4.5         | Flow Regulation Type:       | <b>None</b>      |
|             | Use:                        |                  |
| 4.7         | Stormwater Inputs           |                  |
|             | Overland Flow               | Road Ditch       |
|             | Field Ditch                 | Tile Drain       |
|             | Other                       | Ub Strm Wtr Pipe |
| 4.9         | Beaver Dams:                | <b>0</b>         |
|             | Affected length (ft.):      | <b>0.0</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>      |
|             | Length (ft.):               | <b>0.0</b>       |
|             | Dredging:                   | <b>None</b>      |