

Three Rivers Heritage Trail, Eco Group A

Summary Report - Ecology, Group A

Total Trail Length (ft): 4,458

Ohio River ALCOSAN to Island Avenue (Group A), Ecology Summary

This grouping is defined by a narrow strip of vegetation on the landward side of the trail and a wider strip of vegetation on the river side of the trail, with occasional river access points. There is overall low canopy density with a high density of invasive trees (mainly tree of heaven and white mulberry). Invasive shrub density is low, vines medium (oriental bittersweet, porcelain berry, grape), and invasive herbs high (knotweed). The trail surface is in relatively good condition.

Anticipated Cost: \$205,360.18
Cost per Linear Foot: \$46.07



Three Rivers Heritage Trail, Eco Group A

SEGMENT: Ohio North - Section 1, Segment 2

Doerr Street to Wood Run Corporation Parking Lot

Length (ft): 753

Ecology Assessment and Observations

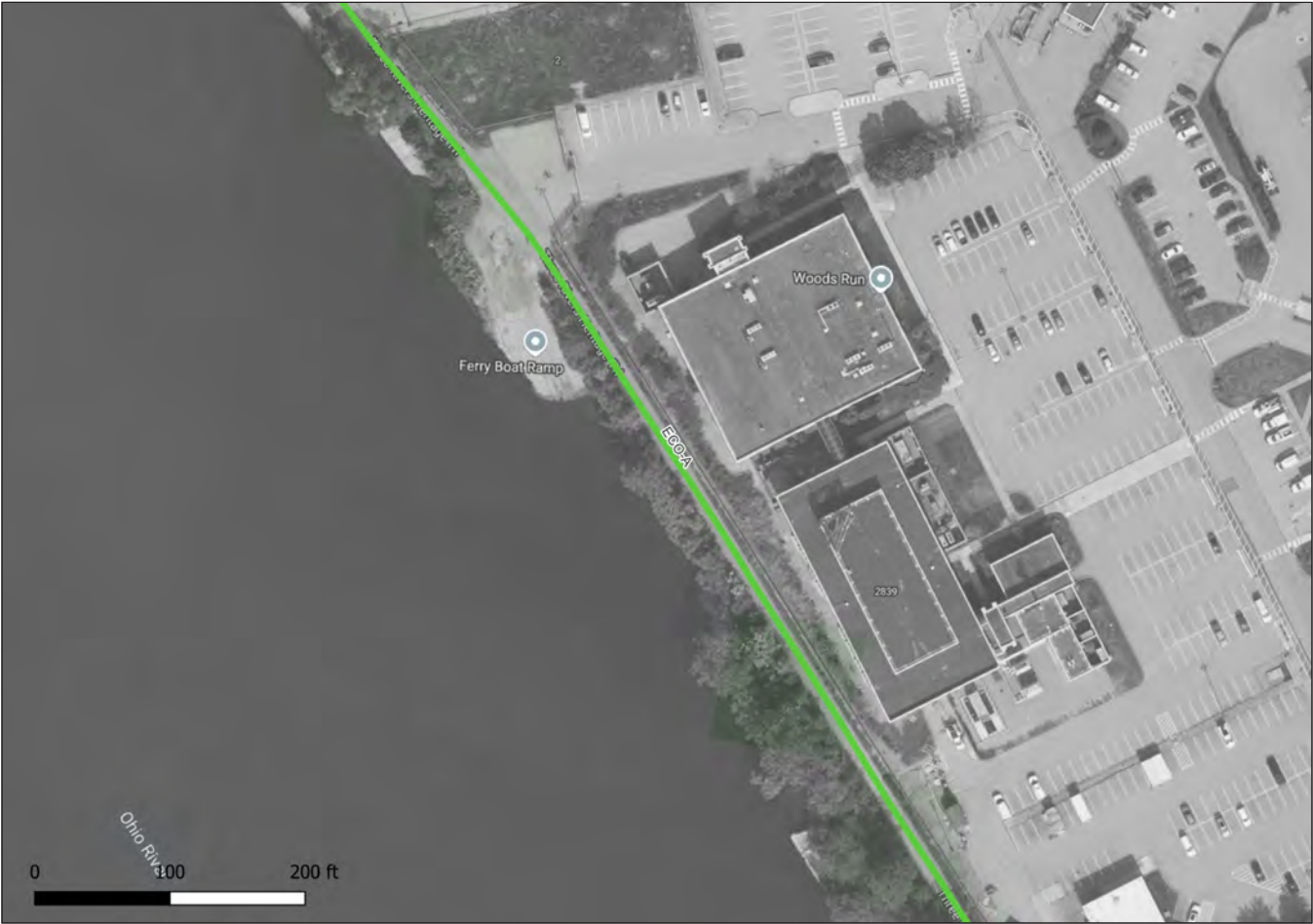
- Ecology Area, Estimated (SF): 60,270
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.38	AC	\$ 198.00	\$ 273.24
Invasive Shrub Control	1.38	AC	\$ 1,500.00	\$ 2,070.00
Invasive Vine Control	1.38	AC	\$ 1,005.00	\$ 1,386.90
Invasive Herb Control	1.38	AC	\$ 198.00	\$ 273.24
Tree Planting	332	EA	\$ 70.00	\$ 23,240.00
Shrub Planting	67	EA	\$ 70.00	\$ 4,690.00
Herbaceous Seeding	1.38	AC	\$ 2,000.00	\$ 2,760.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 34,693.38	\$ 46.05



Three Rivers Heritage Trail, Eco Group A

SEGMENT: Ohio North - Section 1, Segment 4

Railroad Bridge to Duquesne Light Building

Length (ft): 855

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 68,409
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.57	AC	\$ 198.00	\$ 310.86
Invasive Shrub Control	1.57	AC	\$ 1,500.00	\$ 2,355.00
Invasive Vine Control	1.57	AC	\$ 1,005.00	\$ 1,577.85
Invasive Herb Control	1.57	AC	\$ 198.00	\$ 310.86
Tree Planting	377	EA	\$ 70.00	\$ 26,390.00
Shrub Planting	76	EA	\$ 70.00	\$ 5,320.00
Herbaceous Seeding	1.57	AC	\$ 2,000.00	\$ 3,140.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 39,404.57	\$ 46.08



Three Rivers Heritage Trail, Eco Group A

SEGMENT: Ohio North - Section 1, Segment 1

Westhall Street to Doerr Street

Length (ft): 1,241

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 99,254
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.28	AC	\$ 198.00	\$ 451.44
Invasive Shrub Control	2.28	AC	\$ 1,500.00	\$ 3,420.00
Invasive Vine Control	2.28	AC	\$ 1,005.00	\$ 2,291.40
Invasive Herb Control	2.28	AC	\$ 198.00	\$ 451.44
Tree Planting	547	EA	\$ 70.00	\$ 38,290.00
Shrub Planting	110	EA	\$ 70.00	\$ 7,700.00
Herbaceous Seeding	2.28	AC	\$ 2,000.00	\$ 4,560.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 57,164.28	\$ 46.07



Three Rivers Heritage Trail, Eco Group A

SEGMENT: Ohio North - Section 1, Segment 3

Wood Run Corporate Parking Lot to Railroad Bridge

Length (ft): 753

Ecology Assessment and Observations

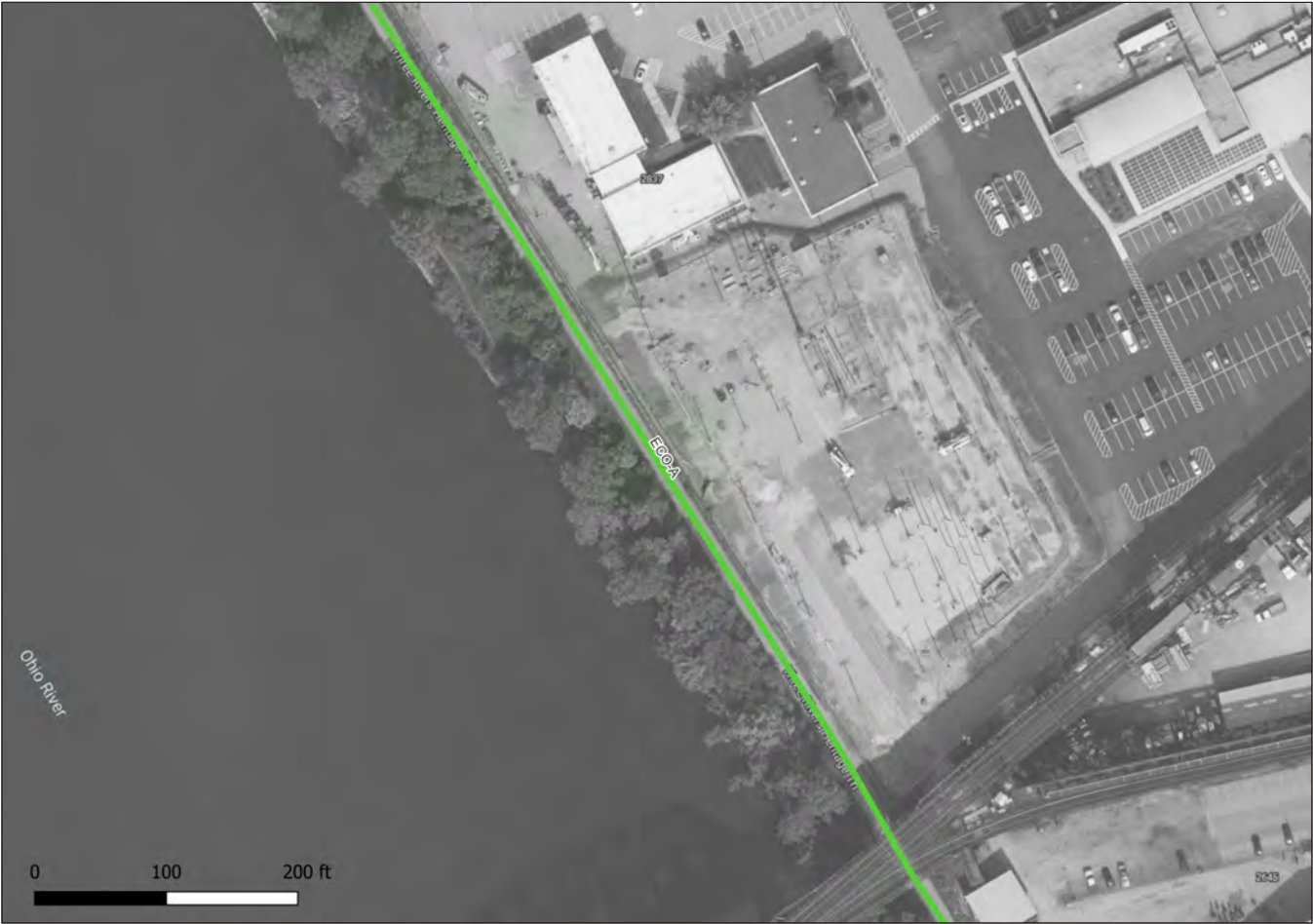
- Ecology Area, Estimated (SF): 60,270
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.38	AC	\$ 198.00	\$ 273.24
Invasive Shrub Control	1.38	AC	\$ 1,500.00	\$ 2,070.00
Invasive Vine Control	1.38	AC	\$ 1,005.00	\$ 1,386.90
Invasive Herb Control	1.38	AC	\$ 198.00	\$ 273.24
Tree Planting	332	EA	\$ 70.00	\$ 23,240.00
Shrub Planting	67	EA	\$ 70.00	\$ 4,690.00
Herbaceous Seeding	1.38	AC	\$ 2,000.00	\$ 2,760.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 34,693.38	\$ 46.05



Three Rivers Heritage Trail, Eco Group A

SEGMENT: Ohio North - Section 1, Segment 5

Duquesne Light Building to Island Boat Club

Length (ft): 855

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 68,409
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.57	AC	\$ 198.00	\$ 310.86
Invasive Shrub Control	1.57	AC	\$ 1,500.00	\$ 2,355.00
Invasive Vine Control	1.57	AC	\$ 1,005.00	\$ 1,577.85
Invasive Herb Control	1.57	AC	\$ 198.00	\$ 310.86
Tree Planting	377	EA	\$ 70.00	\$ 26,390.00
Shrub Planting	76	EA	\$ 70.00	\$ 5,320.00
Herbaceous Seeding	1.57	AC	\$ 2,000.00	\$ 3,140.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 39,404.57	\$ 46.08



Three Rivers Heritage Trail, Eco Group B

Summary Report - Ecology, Group B

Total Trail Length (ft): 6,897

Ohio River Island Avenue to Casino (Group B), Ecology Summary

This grouping is defined by a narrow strip of vegetation on the landward side of the trail and inaccessible, steep walls on the river side. There is overall medium canopy cover with a medium density of invasive trees (mainly tree of heaven and white mulberry). Invasive shrub density is medium (Amur honeysuckle), vines low, and invasive herbs high (knotweed, mugwort). The trail surface is in fair condition.

Anticipated Cost: \$356,556.08

Cost per Linear Foot: \$51.70



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 10

Pittsburgh Boats to Trucking Storage Yard

Length (ft): 1,084

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,689
- Overall Ecology Score (0-1): 0.20
- Percent Canopy (Measured): 0.20%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 402.00	\$ 799.98
Invasive Shrub Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Vine Control	1.99	AC	\$ 1,500.00	\$ 2,985.00
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	637	EA	\$ 70.00	\$ 44,590.00
Shrub Planting	71	EA	\$ 70.00	\$ 4,970.00
Herbaceous Seeding	1.99	AC	\$ 2,000.00	\$ 3,980.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 59,718.95

Cost per Ft (\$)

\$ 55.11



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 9

N. Franklin Street to Pittsburgh Boats

Length (ft): 1,023

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 81,816
- Overall Ecology Score (0-1): 0.07
- Percent Canopy (Measured): 0.07%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.88	AC	\$ 402.00	\$ 755.76
Invasive Shrub Control	1.88	AC	\$ 1,005.00	\$ 1,889.40
Invasive Vine Control	1.88	AC	\$ 1,500.00	\$ 2,820.00
Invasive Herb Control	1.88	AC	\$ 198.00	\$ 372.24
Tree Planting	567	EA	\$ 70.00	\$ 39,690.00
Shrub Planting	63	EA	\$ 70.00	\$ 4,410.00
Herbaceous Seeding	1.88	AC	\$ 2,000.00	\$ 3,760.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 53,697.40	\$ 52.51



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 7

Past Seymour Street to Armin Iron Works @ Columbus Ave

Length (ft): 874

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 69,956
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.61	AC	\$ 198.00	\$ 318.78
Invasive Shrub Control	1.61	AC	\$ 1,500.00	\$ 2,415.00
Invasive Vine Control	1.61	AC	\$ 1,005.00	\$ 1,618.05
Invasive Herb Control	1.61	AC	\$ 198.00	\$ 318.78
Tree Planting	386	EA	\$ 70.00	\$ 27,020.00
Shrub Planting	78	EA	\$ 70.00	\$ 5,460.00
Herbaceous Seeding	1.61	AC	\$ 2,000.00	\$ 3,220.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 40,370.61

Cost per Ft (\$)

\$ 46.17



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 8

Armin Iron Works @ Columbus Ave to N. Franklin Street

Length (ft): 874

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 69,956
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.61	AC	\$ 198.00	\$ 318.78
Invasive Shrub Control	1.61	AC	\$ 1,500.00	\$ 2,415.00
Invasive Vine Control	1.61	AC	\$ 1,005.00	\$ 1,618.05
Invasive Herb Control	1.61	AC	\$ 198.00	\$ 318.78
Tree Planting	386	EA	\$ 70.00	\$ 27,020.00
Shrub Planting	78	EA	\$ 70.00	\$ 5,460.00
Herbaceous Seeding	1.61	AC	\$ 2,000.00	\$ 3,220.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 40,370.61

Cost per Ft (\$)

\$ 46.17



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 6

Island Boat Club to Past Seymour Street

Length (ft): 874

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 69,956
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.61	AC	\$ 198.00	\$ 318.78
Invasive Shrub Control	1.61	AC	\$ 1,500.00	\$ 2,415.00
Invasive Vine Control	1.61	AC	\$ 1,005.00	\$ 1,618.05
Invasive Herb Control	1.61	AC	\$ 198.00	\$ 318.78
Tree Planting	386	EA	\$ 70.00	\$ 27,020.00
Shrub Planting	78	EA	\$ 70.00	\$ 5,460.00
Herbaceous Seeding	1.61	AC	\$ 2,000.00	\$ 3,220.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 40,370.61	\$ 46.17



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 12

West End Bridge to Rivers Casino Edge

Length (ft): 1,084

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,689
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.35%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 402.00	\$ 799.98
Invasive Shrub Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Vine Control	1.99	AC	\$ 1,500.00	\$ 2,985.00
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	680	EA	\$ 70.00	\$ 47,600.00
Shrub Planting	76	EA	\$ 70.00	\$ 5,320.00
Herbaceous Seeding	1.99	AC	\$ 2,000.00	\$ 3,980.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 63,078.95	\$ 58.21



Three Rivers Heritage Trail, Eco Group B

SEGMENT: Ohio North - Section 1, Segment 11

Trucking Storage Yard to West End Bridge

Length (ft): 1,084

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,689
- Overall Ecology Score (0-1): 0.16
- Percent Canopy (Measured): 0.16%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 402.00	\$ 799.98
Invasive Shrub Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Vine Control	1.99	AC	\$ 1,500.00	\$ 2,985.00
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	627	EA	\$ 70.00	\$ 43,890.00
Shrub Planting	70	EA	\$ 70.00	\$ 4,900.00
Herbaceous Seeding	1.99	AC	\$ 2,000.00	\$ 3,980.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 58,948.95	\$ 54.40



Three Rivers Heritage Trail, Eco Group C

Summary Report - Ecology, Group C

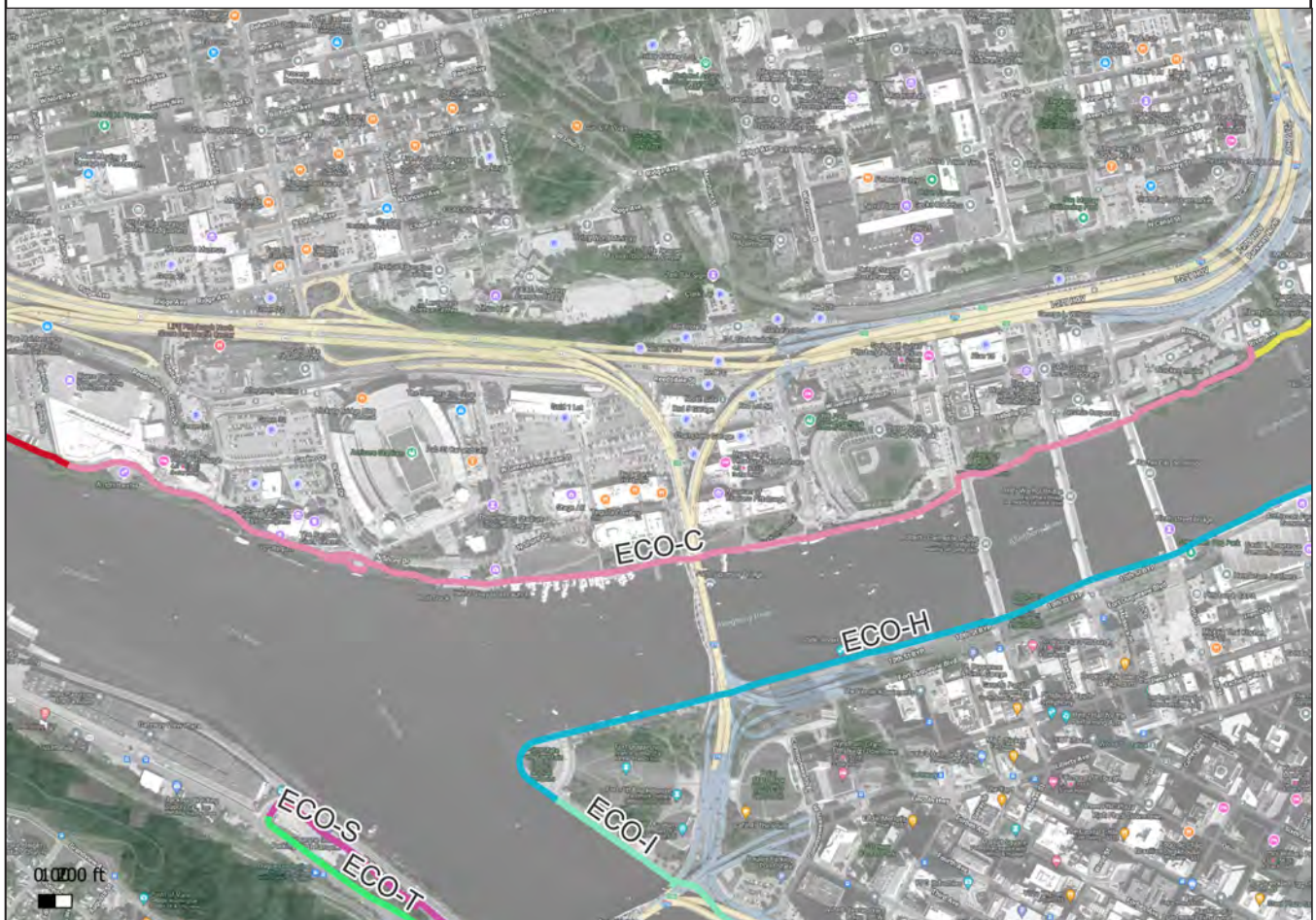
Total Trail Length (ft): 8,029

North Shore (Casino to Bracken House) (Group C), Ecology Summary

This grouping is defined by a mostly concrete trail (good condition) traversing public and private institutional spaces. There is for the most part very little vegetated buffer, although there are some invasive species in front of the casino and office/apartment buildings on the eastern side of the grouping.

Anticipated Cost: \$568,396.89

Cost per Linear Foot: \$70.79



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Allegheny North - Section 1, Segment 3

Roberto Clemente Bridge to Rachel Carson Bridge

Length (ft): 1,080

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,372
- Overall Ecology Score (0-1): 0.03
- Percent Canopy (Measured): 0.03%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.98	AC	\$ 600.00	\$ 1,188.00
Invasive Shrub Control	1.98	AC	\$ 1,500.00	\$ 2,970.00
Invasive Vine Control	1.98	AC	\$ 1,500.00	\$ 2,970.00
Invasive Herb Control	1.98	AC	\$ 600.00	\$ 1,188.00
Tree Planting	864	EA	\$ 70.00	\$ 60,480.00
Shrub Planting	96	EA	\$ 70.00	\$ 6,720.00
Herbaceous Seeding	1.98	AC	\$ 2,000.00	\$ 3,960.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 79,476.00	\$ 73.61



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Allegheny North - Section 1, Segment 2

Mazaroski Way to Roberto Clemente Bridge

Length (ft): 1,021

Ecology Assessment and Observations

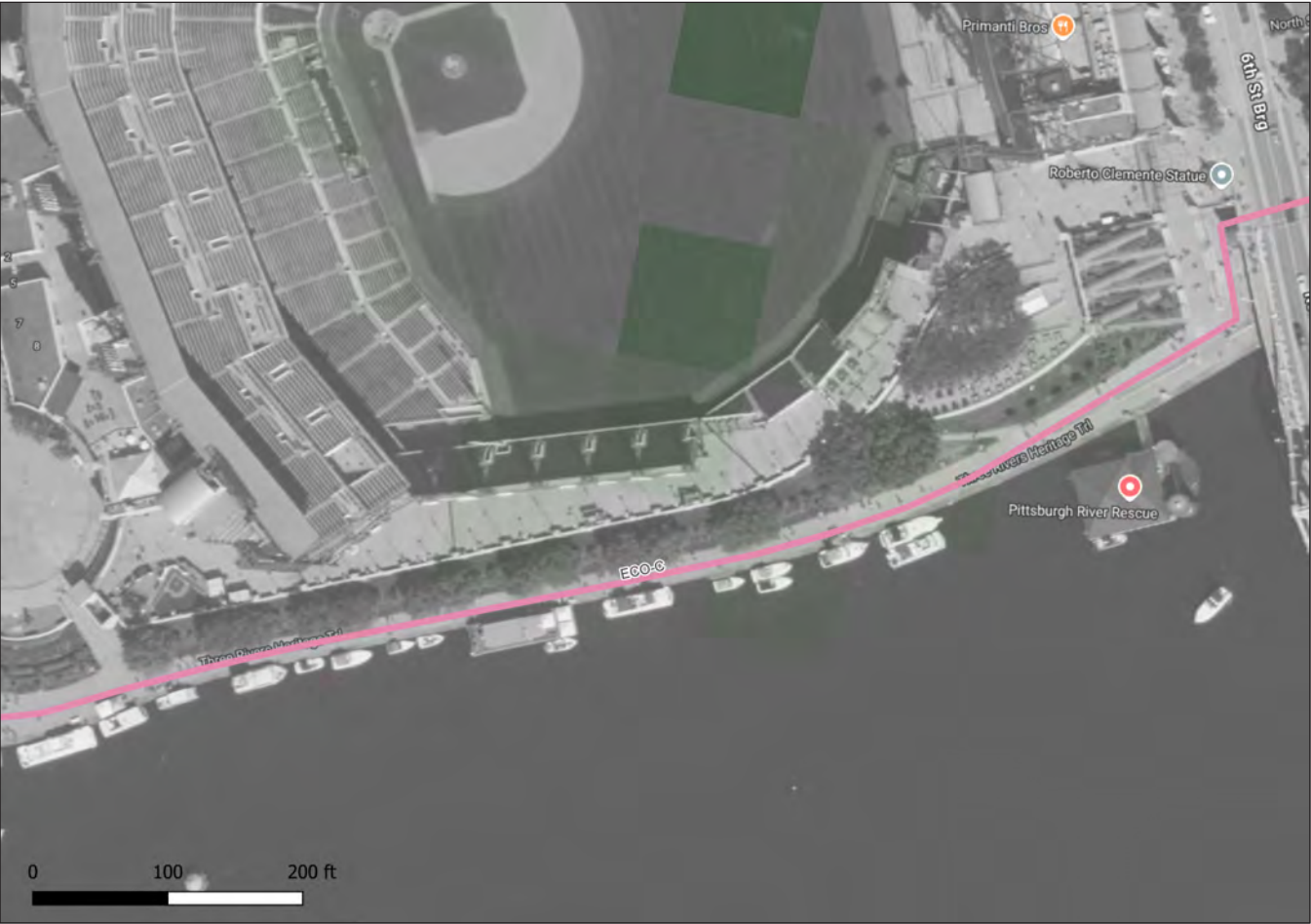
- Ecology Area, Estimated (SF): 81,711
- Overall Ecology Score (0-1): 0.12
- Percent Canopy (Measured): 0.12%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.88	AC	\$ 600.00	\$ 1,128.00
Invasive Shrub Control	1.88	AC	\$ 1,500.00	\$ 2,820.00
Invasive Vine Control	1.88	AC	\$ 1,500.00	\$ 2,820.00
Invasive Herb Control	1.88	AC	\$ 600.00	\$ 1,128.00
Tree Planting	817	EA	\$ 70.00	\$ 57,190.00
Shrub Planting	91	EA	\$ 70.00	\$ 6,370.00
Herbaceous Seeding	1.88	AC	\$ 2,000.00	\$ 3,760.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 75,216.00	\$ 73.64



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Allegheny North - Section 1, Segment 4

Rachel Carson Bridge to River Ave Connection

Length (ft): 914

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 73,108
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.49%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.68	AC	\$ 600.00	\$ 1,008.00
Invasive Shrub Control	1.68	AC	\$ 1,500.00	\$ 2,520.00
Invasive Vine Control	1.68	AC	\$ 1,500.00	\$ 2,520.00
Invasive Herb Control	1.68	AC	\$ 198.00	\$ 332.64
Tree Planting	731	EA	\$ 70.00	\$ 51,170.00
Shrub Planting	81	EA	\$ 70.00	\$ 5,670.00
Herbaceous Seeding	1.68	AC	\$ 2,000.00	\$ 3,360.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 66,580.64	\$ 72.86



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Allegheny North - Section 1, Segment 1

Fort Duquesne Bridge to Mazaroski Way

Length (ft): 780

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 62,386
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.43	AC	\$ 600.00	\$ 858.00
Invasive Shrub Control	1.43	AC	\$ 1,500.00	\$ 2,145.00
Invasive Vine Control	1.43	AC	\$ 1,500.00	\$ 2,145.00
Invasive Herb Control	1.43	AC	\$ 600.00	\$ 858.00
Tree Planting	624	EA	\$ 70.00	\$ 43,680.00
Shrub Planting	69	EA	\$ 70.00	\$ 4,830.00
Herbaceous Seeding	1.43	AC	\$ 2,000.00	\$ 2,860.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 57,376.00	\$ 73.58



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Ohio North - Section 1, Segment 15

Carnegie Science Center to Art Rooney Avenue

Length (ft): 997

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 79,759
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.83	AC	\$ 600.00	\$ 1,098.00
Invasive Shrub Control	1.83	AC	\$ 1,500.00	\$ 2,745.00
Invasive Vine Control	1.83	AC	\$ 1,500.00	\$ 2,745.00
Invasive Herb Control	1.83	AC	\$ 600.00	\$ 1,098.00
Tree Planting	798	EA	\$ 70.00	\$ 55,860.00
Shrub Planting	89	EA	\$ 70.00	\$ 6,230.00
Herbaceous Seeding	1.83	AC	\$ 2,000.00	\$ 3,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 73,436.00	\$ 73.66



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Ohio North - Section 1, Segment 14

Sproat Way to Heinz Quay Boat Launch

Length (ft): 1,233

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 98,609
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.26	AC	\$ 600.00	\$ 1,356.00
Invasive Shrub Control	2.26	AC	\$ 1,500.00	\$ 3,390.00
Invasive Vine Control	2.26	AC	\$ 1,500.00	\$ 3,390.00
Invasive Herb Control	2.26	AC	\$ 600.00	\$ 1,356.00
Tree Planting	986	EA	\$ 70.00	\$ 69,020.00
Shrub Planting	110	EA	\$ 70.00	\$ 7,700.00
Herbaceous Seeding	2.26	AC	\$ 2,000.00	\$ 4,520.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 90,732.00	\$ 73.61



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Ohio North - Section 1, Segment 13

Rivers Casino Edge to Sprout Way

Length (ft): 1,008

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,639
- Overall Ecology Score (0-1): 0.03
- Percent Canopy (Measured): 0.03%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 402.00	\$ 743.70
Invasive Shrub Control	1.85	AC	\$ 1,005.00	\$ 1,859.25
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 198.00	\$ 366.30
Tree Planting	549	EA	\$ 70.00	\$ 38,430.00
Shrub Planting	61	EA	\$ 70.00	\$ 4,270.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 52,144.25	\$ 51.73



Three Rivers Heritage Trail, Eco Group C

SEGMENT: Ohio North - Section 1, Segment 16

Art Rooney Avenue to Fort Duquesne Bridge

Length (ft): 997

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 79,759
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.83	AC	\$ 600.00	\$ 1,098.00
Invasive Shrub Control	1.83	AC	\$ 1,500.00	\$ 2,745.00
Invasive Vine Control	1.83	AC	\$ 1,500.00	\$ 2,745.00
Invasive Herb Control	1.83	AC	\$ 600.00	\$ 1,098.00
Tree Planting	798	EA	\$ 70.00	\$ 55,860.00
Shrub Planting	89	EA	\$ 70.00	\$ 6,230.00
Herbaceous Seeding	1.83	AC	\$ 2,000.00	\$ 3,660.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 73,436.00

Cost per Ft (\$)

\$ 73.66



Three Rivers Heritage Trail, Eco Group D

Summary Report - Ecology, Group D

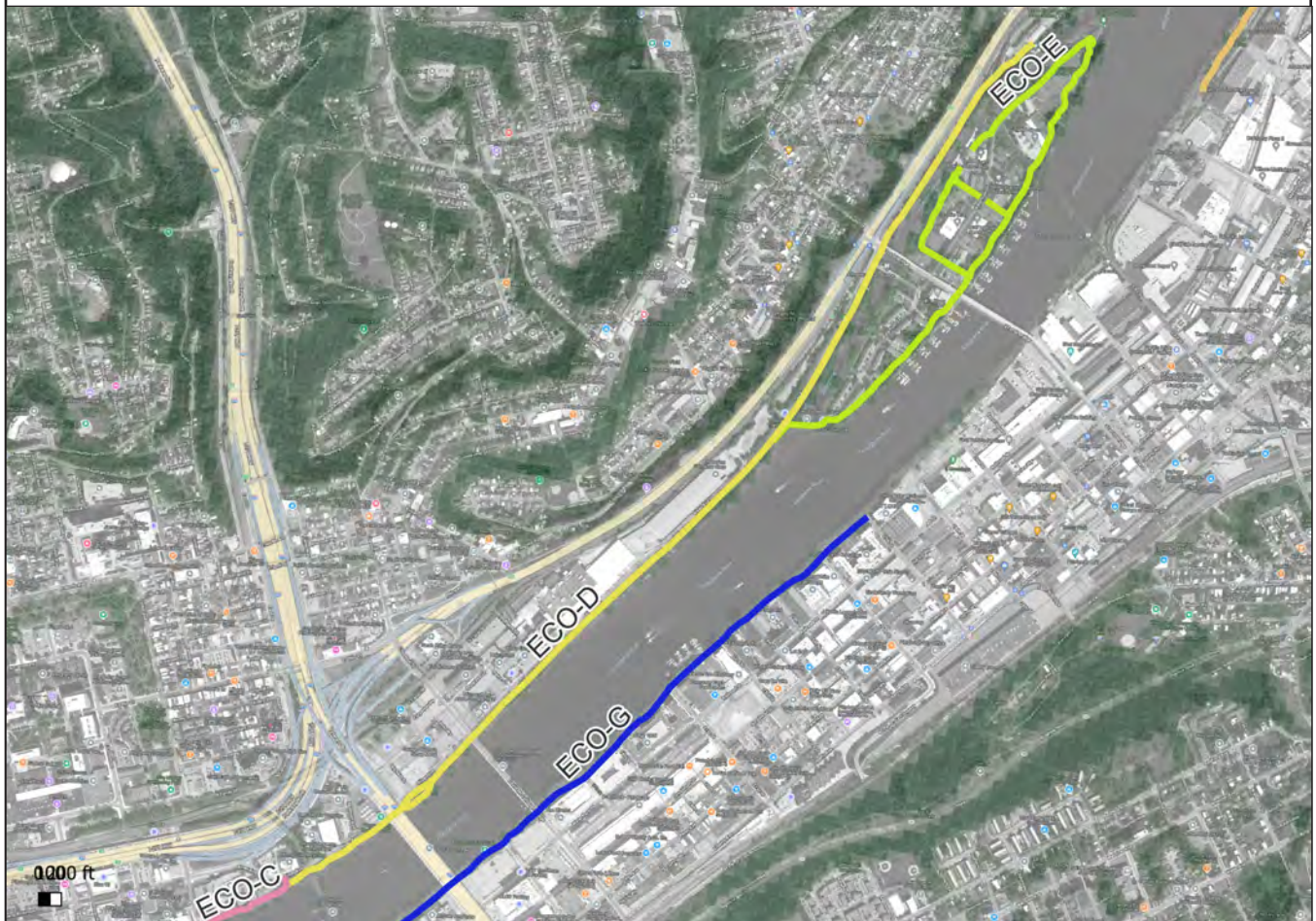
Total Trail Length (ft): 10,376

Allegheny River Trail (Group D), Ecology Summary

This grouping is defined by a well vegetated buffer extending along the north shore of the Allegheny River from Bracken House to the City limits. There is a narrow, variably vegetated strip between the trail and River Avenue and a wider strip of vegetation between the trail and the river with multiple access points. Canopy density is medium to low, with a medium density of invasive trees (tree of heaven, white mulberry), high density of invasive shrubs (Amur honeysuckle), high density of vines (oriental bittersweet, porcelain berry), and high density of invasive herbs (knotweed, poison hemlock, crown vetch). The trail is asphalt (except a concrete floating section opposite Herrs Island) in good condition.

Anticipated Cost: \$550,535.40

Cost per Linear Foot: \$53.06



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 1, Segment 9

Champion Container Corp to Ontrac

Length (ft): 1,015

Ecology Assessment and Observations

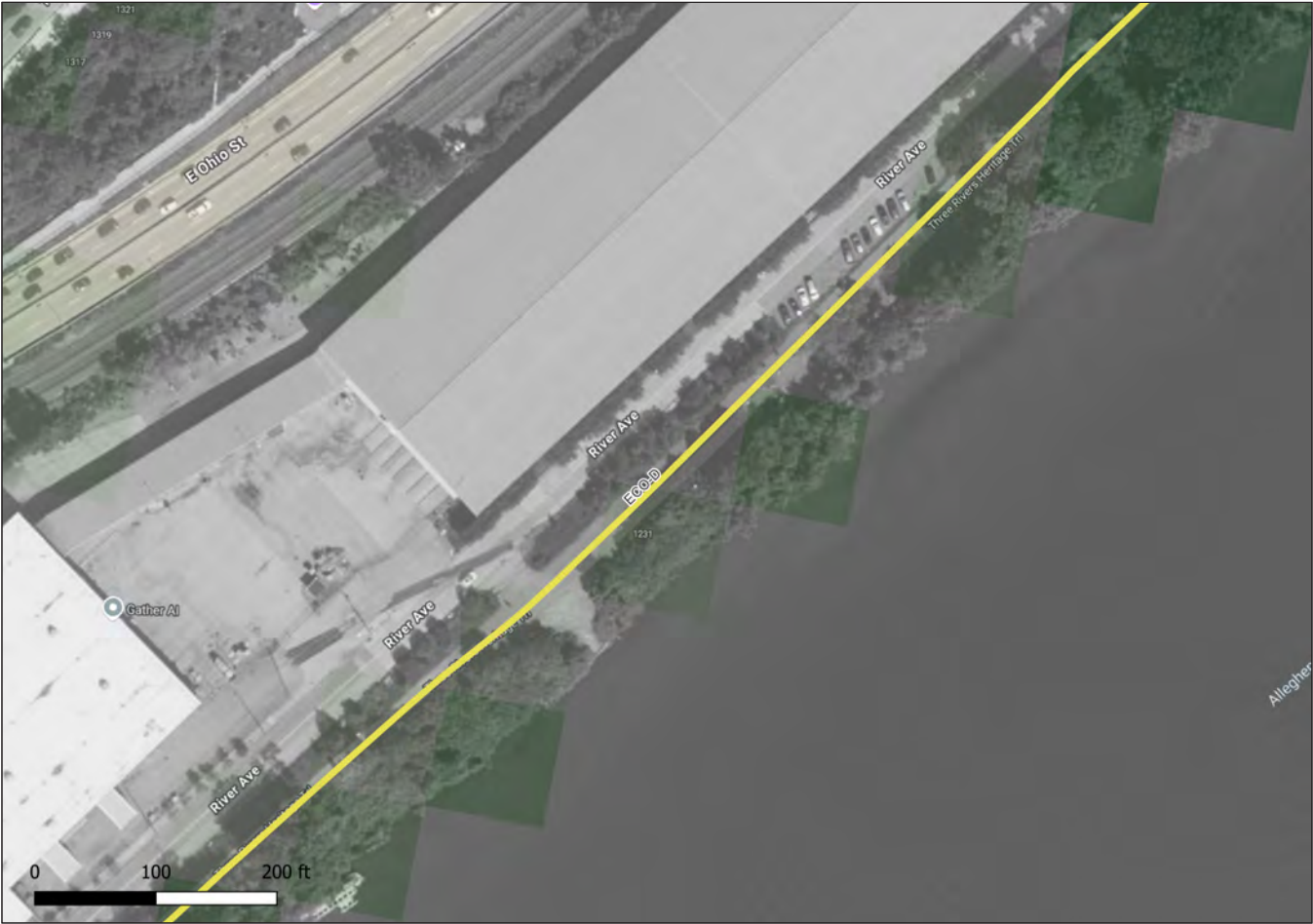
- Ecology Area, Estimated (SF): 81,171
- Overall Ecology Score (0-1): 0.18
- Percent Canopy (Measured): 0.18%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 402.00	\$ 747.72
Invasive Shrub Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Vine Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	591	EA	\$ 70.00	\$ 41,370.00
Shrub Planting	40	EA	\$ 70.00	\$ 2,800.00
Herbaceous Seeding	1.25	AC	\$ 2,000.00	\$ 2,500.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 49,627.40	\$ 48.91



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 2, Segment 3

Past 31st Street Bridge to Opp. Three Rivers Rowing Assoc.

Length (ft): 999

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 79,947
- Overall Ecology Score (0-1): 0.24
- Percent Canopy (Measured): 0.24%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.84	AC	\$ 402.00	\$ 739.68
Invasive Shrub Control	1.84	AC	\$ 495.00	\$ 910.80
Invasive Vine Control	1.84	AC	\$ 495.00	\$ 910.80
Invasive Herb Control	1.84	AC	\$ 198.00	\$ 364.32
Tree Planting	598	EA	\$ 70.00	\$ 41,860.00
Shrub Planting	43	EA	\$ 70.00	\$ 3,010.00
Herbaceous Seeding	1.23	AC	\$ 2,000.00	\$ 2,460.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 50,255.60

Cost per Ft (\$)

\$ 50.29



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 2, Segment 2

River Avenue Parallel to Past 31st Street Bridge

Length (ft): 999

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 79,947
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.43%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.84	AC	\$ 402.00	\$ 739.68
Invasive Shrub Control	1.84	AC	\$ 495.00	\$ 910.80
Invasive Vine Control	1.84	AC	\$ 495.00	\$ 910.80
Invasive Herb Control	1.84	AC	\$ 198.00	\$ 364.32
Tree Planting	649	EA	\$ 70.00	\$ 45,430.00
Shrub Planting	55	EA	\$ 70.00	\$ 3,850.00
Herbaceous Seeding	1.23	AC	\$ 2,000.00	\$ 2,460.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 54,665.60

Cost per Ft (\$)

\$ 54.70



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 2, Segment 4

Opp. Three Rivers Rowing Assoc. to Three Rivers Water Trail

Length (ft): 999

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 79,947
- Overall Ecology Score (0-1): 0.17
- Percent Canopy (Measured): 0.17%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.84	AC	\$ 402.00	\$ 739.68
Invasive Shrub Control	1.84	AC	\$ 495.00	\$ 910.80
Invasive Vine Control	1.84	AC	\$ 495.00	\$ 910.80
Invasive Herb Control	1.84	AC	\$ 198.00	\$ 364.32
Tree Planting	582	EA	\$ 70.00	\$ 40,740.00
Shrub Planting	40	EA	\$ 70.00	\$ 2,800.00
Herbaceous Seeding	1.23	AC	\$ 2,000.00	\$ 2,460.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 48,925.60

Cost per Ft (\$)

\$ 48.96



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 1, Segment 6

Veterans Bridge to 16th Street Bridge

Length (ft): 1,412

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 112,967
- Overall Ecology Score (0-1): 0.28
- Percent Canopy (Measured): 0.28%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.59	AC	\$ 402.00	\$ 1,041.18
Invasive Shrub Control	2.59	AC	\$ 495.00	\$ 1,282.05
Invasive Vine Control	2.59	AC	\$ 495.00	\$ 1,282.05
Invasive Herb Control	2.59	AC	\$ 198.00	\$ 512.82
Tree Planting	861	EA	\$ 70.00	\$ 60,270.00
Shrub Planting	65	EA	\$ 70.00	\$ 4,550.00
Herbaceous Seeding	1.74	AC	\$ 2,000.00	\$ 3,480.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 72,418.10	\$ 51.28



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 1, Segment 5

River Ave Connection to Veterans Bridge

Length (ft): 1,069

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 85,505
- Overall Ecology Score (0-1): 0.27
- Percent Canopy (Measured): 0.27%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.96	AC	\$ 402.00	\$ 787.92
Invasive Shrub Control	1.96	AC	\$ 495.00	\$ 970.20
Invasive Vine Control	1.96	AC	\$ 495.00	\$ 970.20
Invasive Herb Control	1.96	AC	\$ 198.00	\$ 388.08
Tree Planting	650	EA	\$ 70.00	\$ 45,500.00
Shrub Planting	49	EA	\$ 70.00	\$ 3,430.00
Herbaceous Seeding	1.31	AC	\$ 2,000.00	\$ 2,620.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 54,666.40	\$ 51.15



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 1, Segment 7

16th Street Bridge to Heinz Stack

Length (ft): 1,015

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 81,171
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.49%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 402.00	\$ 747.72
Invasive Shrub Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Vine Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	675	EA	\$ 70.00	\$ 47,250.00
Shrub Planting	59	EA	\$ 70.00	\$ 4,130.00
Herbaceous Seeding	1.25	AC	\$ 2,000.00	\$ 2,500.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 56,837.40	\$ 56.02



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 1, Segment 8

Heinz Stack to Champion Container Corp

Length (ft): 1,015

Ecology Assessment and Observations

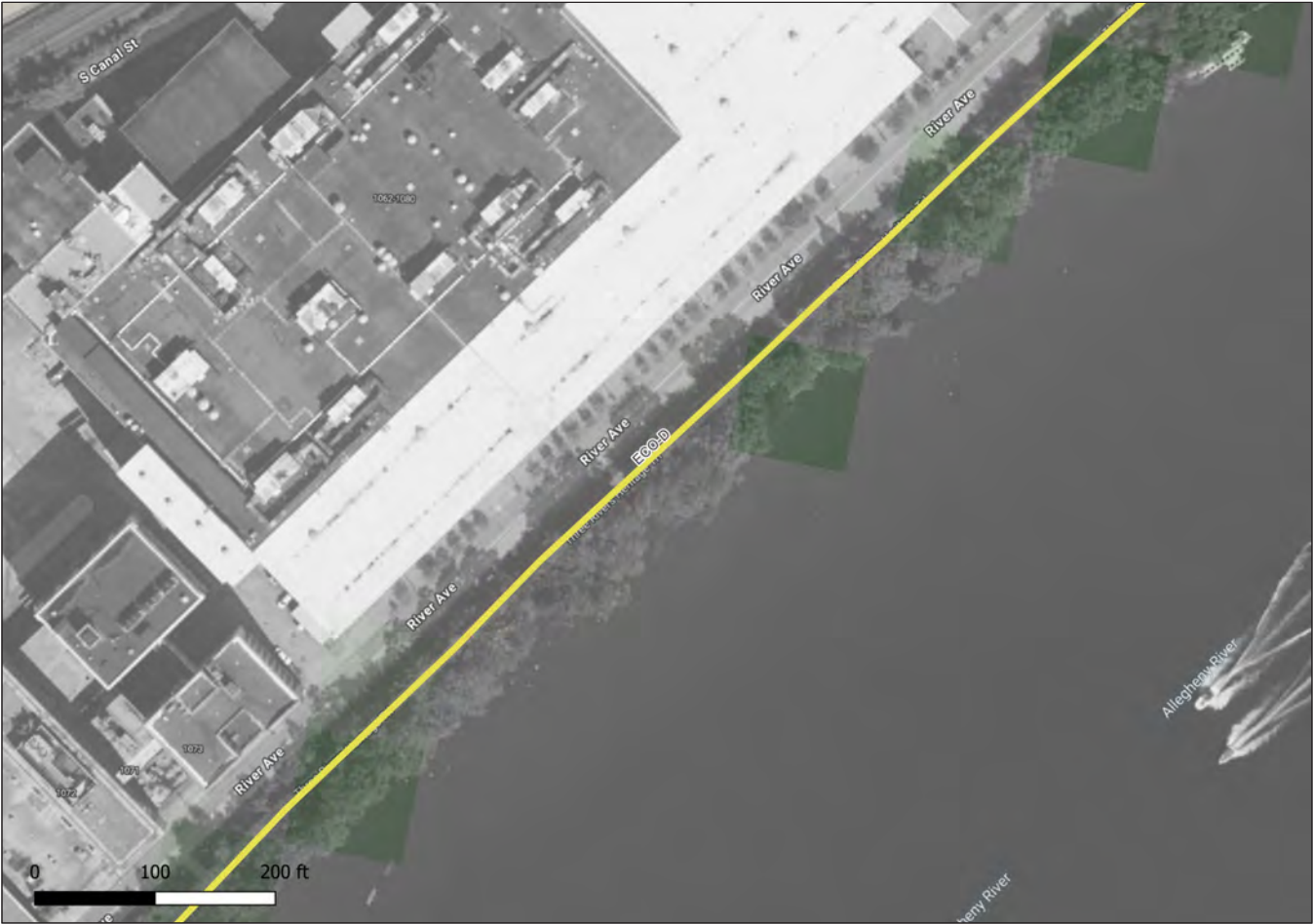
- Ecology Area, Estimated (SF): 81,171
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.56%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 402.00	\$ 747.72
Invasive Shrub Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Vine Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	693	EA	\$ 70.00	\$ 48,510.00
Shrub Planting	63	EA	\$ 70.00	\$ 4,410.00
Herbaceous Seeding	1.25	AC	\$ 2,000.00	\$ 2,500.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 58,377.40	\$ 57.54



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 2, Segment 1

Herr's Island Bridge to River Avenue Parallel

Length (ft): 1,185

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 94,788
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.46%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.18	AC	\$ 402.00	\$ 876.36
Invasive Shrub Control	2.18	AC	\$ 495.00	\$ 1,079.10
Invasive Vine Control	2.18	AC	\$ 495.00	\$ 1,079.10
Invasive Herb Control	2.18	AC	\$ 198.00	\$ 431.64
Tree Planting	781	EA	\$ 70.00	\$ 54,670.00
Shrub Planting	68	EA	\$ 70.00	\$ 4,760.00
Herbaceous Seeding	1.46	AC	\$ 2,000.00	\$ 2,920.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 65,816.20

Cost per Ft (\$)

\$ 55.55



Three Rivers Heritage Trail, Eco Group D

SEGMENT: Allegheny North - Section 1, Segment 10

Ontrac to Herr's Island Bridge

Length (ft): 668

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 53,453
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.59%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.23	AC	\$ 402.00	\$ 494.46
Invasive Shrub Control	1.23	AC	\$ 495.00	\$ 608.85
Invasive Vine Control	1.23	AC	\$ 495.00	\$ 608.85
Invasive Herb Control	1.23	AC	\$ 198.00	\$ 243.54
Tree Planting	462	EA	\$ 70.00	\$ 32,340.00
Shrub Planting	43	EA	\$ 70.00	\$ 3,010.00
Herbaceous Seeding	0.82	AC	\$ 2,000.00	\$ 1,640.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 38,945.70	\$ 58.29



Three Rivers Heritage Trail, Eco Group E

Summary Report - Ecology, Group E

Total Trail Length (ft): 8,024

Herrs Island (Group E), Ecology Summary

The trail on Herrs Island is variable width crushed limestone in variable condition due to erosion and vegetation overgrowth. Canopy density is medium to low, with a medium to high density of invasive trees (tree of heaven, white mulberry), high density of invasive shrubs (Amur honeysuckle), high density of vines (oriental bittersweet, porcelain berry, winter creeper), and high density of invasive herbs (knotweed, teasel).

Anticipated Cost: \$361,845.28

Cost per Linear Foot: \$45.09



Three Rivers Heritage Trail, Eco Group E

SEGMENT: Allegheny North - Section 2, Segment 7

Under 31st Street Bridge to PaDEP Building

Length (ft): 1,118

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 89,415
- Overall Ecology Score (0-1): 0.14
- Percent Canopy (Measured): 0.14%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.05	AC	\$ 402.00	\$ 824.10
Invasive Shrub Control	2.05	AC	\$ 495.00	\$ 1,014.75
Invasive Vine Control	2.05	AC	\$ 495.00	\$ 1,014.75
Invasive Herb Control	2.05	AC	\$ 198.00	\$ 405.90
Tree Planting	641	EA	\$ 70.00	\$ 44,870.00
Shrub Planting	42	EA	\$ 70.00	\$ 2,940.00
Herbaceous Seeding	1.37	AC	\$ 2,000.00	\$ 2,740.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 53,809.50

Cost per Ft (\$)

\$ 48.14



Three Rivers Heritage Trail, Eco Group E

SEGMENT: Allegheny North - Section 2, Segment 11

Three Rivers Rowing Association to 31st St Bridge Parking

Length (ft): 1,276

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 102,080
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.46%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.34	AC	\$ 198.00	\$ 463.32
Invasive Shrub Control	2.34	AC	\$ 495.00	\$ 1,158.30
Invasive Vine Control	2.34	AC	\$ 495.00	\$ 1,158.30
Invasive Herb Control	2.34	AC	\$ 198.00	\$ 463.32
Tree Planting	655	EA	\$ 70.00	\$ 45,850.00
Shrub Planting	73	EA	\$ 70.00	\$ 5,110.00
Herbaceous Seeding	0.77	AC	\$ 2,000.00	\$ 1,540.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 55,743.24

Cost per Ft (\$)

\$ 43.69



Three Rivers Heritage Trail, Eco Group E

SEGMENT: Allegheny North - Section 2, Segment 8

PaDEP Building to GAMMA Sports

Length (ft): 1,069

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 85,489
- Overall Ecology Score (0-1): 0.26
- Percent Canopy (Measured): 0.26%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.96	AC	\$ 402.00	\$ 787.92
Invasive Shrub Control	1.96	AC	\$ 495.00	\$ 970.20
Invasive Vine Control	1.96	AC	\$ 495.00	\$ 970.20
Invasive Herb Control	1.96	AC	\$ 198.00	\$ 388.08
Tree Planting	647	EA	\$ 70.00	\$ 45,290.00
Shrub Planting	48	EA	\$ 70.00	\$ 3,360.00
Herbaceous Seeding	1.31	AC	\$ 2,000.00	\$ 2,620.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 54,386.40

Cost per Ft (\$)

\$ 50.89



Three Rivers Heritage Trail, Eco Group E

SEGMENT: Allegheny North - Section 2, Segment 9

GAMMA Sports Around Loop to GAMMA Sports Parking

Length (ft): 1,849

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 147,931
- Overall Ecology Score (0-1): 0.30
- Percent Canopy (Measured): 0.30%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	3.40	AC	\$ 198.00	\$ 673.20
Invasive Shrub Control	3.40	AC	\$ 495.00	\$ 1,683.00
Invasive Vine Control	3.40	AC	\$ 495.00	\$ 1,683.00
Invasive Herb Control	3.40	AC	\$ 198.00	\$ 673.20
Tree Planting	785	EA	\$ 70.00	\$ 54,950.00
Shrub Planting	87	EA	\$ 70.00	\$ 6,090.00
Herbaceous Seeding	1.12	AC	\$ 2,000.00	\$ 2,240.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 67,992.40	\$ 36.77



Three Rivers Heritage Trail, Eco Group E

SEGMENT: Allegheny North - Section 2, Segment 10

GAMMA Sports Parking to Three Rivers Rowing Association

Length (ft): 530

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 42,375
- Overall Ecology Score (0-1): 0.11
- Percent Canopy (Measured): 0.11%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	0.97	AC	\$ 198.00	\$ 192.06
Invasive Shrub Control	0.97	AC	\$ 495.00	\$ 480.15
Invasive Vine Control	0.97	AC	\$ 495.00	\$ 480.15
Invasive Herb Control	0.97	AC	\$ 198.00	\$ 192.06
Tree Planting	170	EA	\$ 70.00	\$ 11,900.00
Shrub Planting	19	EA	\$ 70.00	\$ 1,330.00
Herbaceous Seeding	0.32	AC	\$ 2,000.00	\$ 640.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 15,214.42

Cost per Ft (\$)

\$ 28.72



Three Rivers Heritage Trail, Eco Group E

SEGMENT: Allegheny North - Section 2, Segment 5

Herr's Island Bridge to Waterfront Drive

Length (ft): 1,043

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 83,457
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.48%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.92	AC	\$ 198.00	\$ 380.16
Invasive Shrub Control	1.92	AC	\$ 1,005.00	\$ 1,929.60
Invasive Vine Control	1.92	AC	\$ 495.00	\$ 950.40
Invasive Herb Control	1.92	AC	\$ 198.00	\$ 380.16
Tree Planting	545	EA	\$ 70.00	\$ 38,150.00
Shrub Planting	77	EA	\$ 70.00	\$ 5,390.00
Herbaceous Seeding	1.29	AC	\$ 2,000.00	\$ 2,580.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 49,760.32

Cost per Ft (\$)

\$ 47.70



Three Rivers Heritage Trail, Eco Group F

Summary Report - Ecology, Group F

Total Trail Length (ft): 2,364

Lawrenceville (Group F), Ecology Summary

The Lawrenceville grouping has an overall medium canopy feisty with medium density of invasive trees (tree of heaven, white mulberry), high density of invasive shrubs (Amur honeysuckle), high density of vines (oriental bittersweet, porcelain berry, winter creeper), and high density of invasive herbs (knotweed, mugwort). The trail is crushed limestone in good condition.

Anticipated Cost: \$137,636.50

Cost per Linear Foot: \$58.22



Three Rivers Heritage Trail, Eco Group F

SEGMENT: Allegheny South - Section 3, Segment 6

Terminal End at Railroad to 39th Street

Length (ft): 914

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 73,094
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.57%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.68	AC	\$ 402.00	\$ 675.36
Invasive Shrub Control	1.68	AC	\$ 495.00	\$ 831.60
Invasive Vine Control	1.68	AC	\$ 495.00	\$ 831.60
Invasive Herb Control	1.68	AC	\$ 198.00	\$ 332.64
Tree Planting	628	EA	\$ 70.00	\$ 43,960.00
Shrub Planting	58	EA	\$ 70.00	\$ 4,060.00
Herbaceous Seeding	1.13	AC	\$ 2,000.00	\$ 2,260.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 52,951.20	\$ 57.95



Three Rivers Heritage Trail, Eco Group F

SEGMENT: Allegheny South - Section 3, Segment 8

National Robotics Engr. Center (41th Street) to 43rd Street

Length (ft): 537

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 42,932
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.43%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	0.99	AC	\$ 402.00	\$ 397.98
Invasive Shrub Control	0.99	AC	\$ 495.00	\$ 490.05
Invasive Vine Control	0.99	AC	\$ 495.00	\$ 490.05
Invasive Herb Control	0.99	AC	\$ 198.00	\$ 196.02
Tree Planting	349	EA	\$ 70.00	\$ 24,430.00
Shrub Planting	30	EA	\$ 70.00	\$ 2,100.00
Herbaceous Seeding	0.66	AC	\$ 2,000.00	\$ 1,320.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 29,424.10

Cost per Ft (\$)

\$ 54.83



Three Rivers Heritage Trail, Eco Group F

SEGMENT: Allegheny South - Section 3, Segment 7

39th Street to National Robotics Engr. Center (41th Street)

Length (ft): 914

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 73,094
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.69%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.68	AC	\$ 402.00	\$ 675.36
Invasive Shrub Control	1.68	AC	\$ 495.00	\$ 831.60
Invasive Vine Control	1.68	AC	\$ 495.00	\$ 831.60
Invasive Herb Control	1.68	AC	\$ 198.00	\$ 332.64
Tree Planting	655	EA	\$ 70.00	\$ 45,850.00
Shrub Planting	64	EA	\$ 70.00	\$ 4,480.00
Herbaceous Seeding	1.13	AC	\$ 2,000.00	\$ 2,260.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 55,261.20

Cost per Ft (\$)

\$ 60.48



Three Rivers Heritage Trail, Eco Group G

Summary Report - Ecology, Group G

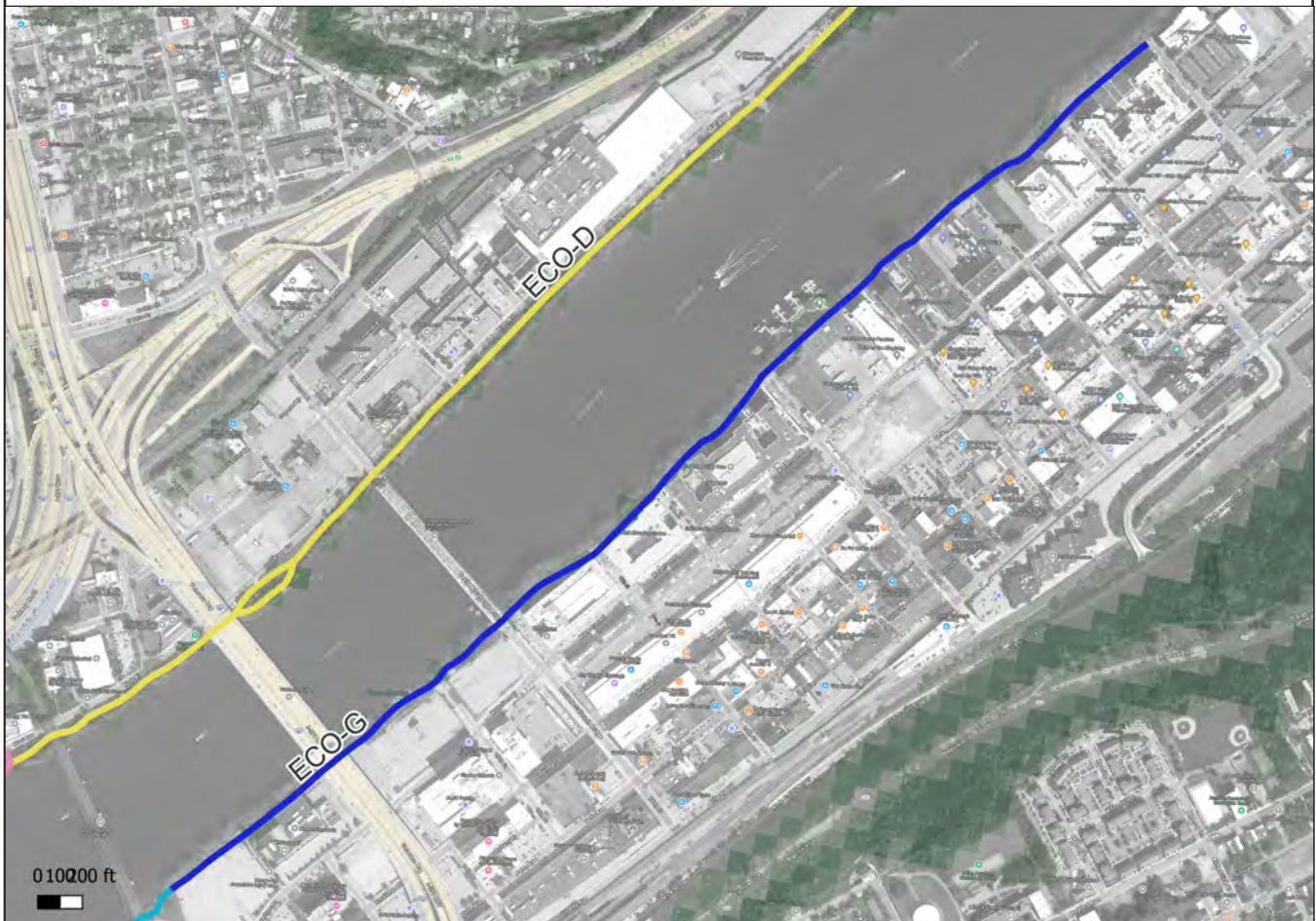
Total Trail Length (ft): 5,781

Strip District (Group G), Ecology Summary

Trail composition and condition through the strip, down to the Convention Center is highly variable. On the landward side of the trail, there are occasional narrow strips of somewhat natural vegetation with potential for management. On the river side, the bank mainly consists of relatively inaccessible retaining walls. Canopy density is variable with medium to high density of invasive trees (tree of heaven, white mulberry, Norway maple), medium to high density of invasive shrubs (Amur honeysuckle), high density of vines (oriental bittersweet, porcelain berry, vinca), and high density of invasive herbs (knotweed).

Anticipated Cost: \$305,893.48

Cost per Linear Foot: \$52.92



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 1

Past Fort Wayne Railroad Bridge to Veterans Bridge

Length (ft): 827

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 66,178
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.67%
- Invasive Tree Factor: 0.00
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.52	AC	\$ 0.00	\$ 0.00
Invasive Shrub Control	1.52	AC	\$ 495.00	\$ 752.40
Invasive Vine Control	1.52	AC	\$ 495.00	\$ 752.40
Invasive Herb Control	1.52	AC	\$ 198.00	\$ 300.96
Tree Planting	443	EA	\$ 70.00	\$ 31,010.00
Shrub Planting	57	EA	\$ 70.00	\$ 3,990.00
Herbaceous Seeding	0.50	AC	\$ 2,000.00	\$ 1,000.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 37,805.76	\$ 45.70



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 2

Veterans Bridge to 16th Street Bridge

Length (ft): 1,042

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 83,373
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.91	AC	\$ 402.00	\$ 767.82
Invasive Shrub Control	1.91	AC	\$ 1,005.00	\$ 1,919.55
Invasive Vine Control	1.91	AC	\$ 1,500.00	\$ 2,865.00
Invasive Herb Control	1.91	AC	\$ 198.00	\$ 378.18
Tree Planting	649	EA	\$ 70.00	\$ 45,430.00
Shrub Planting	72	EA	\$ 70.00	\$ 5,040.00
Herbaceous Seeding	1.91	AC	\$ 2,000.00	\$ 3,820.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 60,220.55	\$ 57.78



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 5

Lock Wall Marina to 23rd Street

Length (ft): 607

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 48,550
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.11	AC	\$ 198.00	\$ 219.78
Invasive Shrub Control	1.11	AC	\$ 1,500.00	\$ 1,665.00
Invasive Vine Control	1.11	AC	\$ 495.00	\$ 549.45
Invasive Herb Control	1.11	AC	\$ 198.00	\$ 219.78
Tree Planting	268	EA	\$ 70.00	\$ 18,760.00
Shrub Planting	54	EA	\$ 70.00	\$ 3,780.00
Herbaceous Seeding	1.11	AC	\$ 2,000.00	\$ 2,220.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 27,414.01	\$ 45.17



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 3

16th Street Bridge to 18th Street

Length (ft): 957

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 76,520
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.76	AC	\$ 198.00	\$ 348.48
Invasive Shrub Control	1.76	AC	\$ 495.00	\$ 871.20
Invasive Vine Control	1.76	AC	\$ 495.00	\$ 871.20
Invasive Herb Control	1.76	AC	\$ 198.00	\$ 348.48
Tree Planting	422	EA	\$ 70.00	\$ 29,540.00
Shrub Planting	47	EA	\$ 70.00	\$ 3,290.00
Herbaceous Seeding	0.58	AC	\$ 2,000.00	\$ 1,160.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 36,429.36	\$ 38.09



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 4

18th Street to Lock Wall Marina

Length (ft): 680

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 54,427
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.25	AC	\$ 198.00	\$ 247.50
Invasive Shrub Control	1.25	AC	\$ 495.00	\$ 618.75
Invasive Vine Control	1.25	AC	\$ 495.00	\$ 618.75
Invasive Herb Control	1.25	AC	\$ 198.00	\$ 247.50
Tree Planting	300	EA	\$ 70.00	\$ 21,000.00
Shrub Planting	33	EA	\$ 70.00	\$ 2,310.00
Herbaceous Seeding	0.41	AC	\$ 2,000.00	\$ 820.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 25,862.50	\$ 38.01



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 6

25th Street to 27th Street

Length (ft): 1,056

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 84,509
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.94	AC	\$ 600.00	\$ 1,164.00
Invasive Shrub Control	1.94	AC	\$ 1,500.00	\$ 2,910.00
Invasive Vine Control	1.94	AC	\$ 495.00	\$ 960.30
Invasive Herb Control	1.94	AC	\$ 198.00	\$ 384.12
Tree Planting	845	EA	\$ 70.00	\$ 59,150.00
Shrub Planting	94	EA	\$ 70.00	\$ 6,580.00
Herbaceous Seeding	1.94	AC	\$ 2,000.00	\$ 3,880.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 75,028.42	\$ 71.03



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 5

24th Street to 25th Street

Length (ft): 307

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 24,564
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	0.56	AC	\$ 600.00	\$ 336.00
Invasive Shrub Control	0.56	AC	\$ 1,005.00	\$ 562.80
Invasive Vine Control	0.56	AC	\$ 495.00	\$ 277.20
Invasive Herb Control	0.56	AC	\$ 0.00	\$ 0.00
Tree Planting	246	EA	\$ 70.00	\$ 17,220.00
Shrub Planting	21	EA	\$ 70.00	\$ 1,470.00
Herbaceous Seeding	0.56	AC	\$ 2,000.00	\$ 1,120.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 20,986.00	\$ 68.35



Three Rivers Heritage Trail, Eco Group G

SEGMENT: Allegheny South - Section 2, Segment 5

23rd Street to 24th Street

Length (ft): 304

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 24,334
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	0.56	AC	\$ 600.00	\$ 336.00
Invasive Shrub Control	0.56	AC	\$ 1,500.00	\$ 840.00
Invasive Vine Control	0.56	AC	\$ 1,500.00	\$ 840.00
Invasive Herb Control	0.56	AC	\$ 198.00	\$ 110.88
Tree Planting	243	EA	\$ 70.00	\$ 17,010.00
Shrub Planting	27	EA	\$ 70.00	\$ 1,890.00
Herbaceous Seeding	0.56	AC	\$ 2,000.00	\$ 1,120.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 22,146.88	\$ 72.81



Three Rivers Heritage Trail, Eco Group H

Summary Report - Ecology, Group H

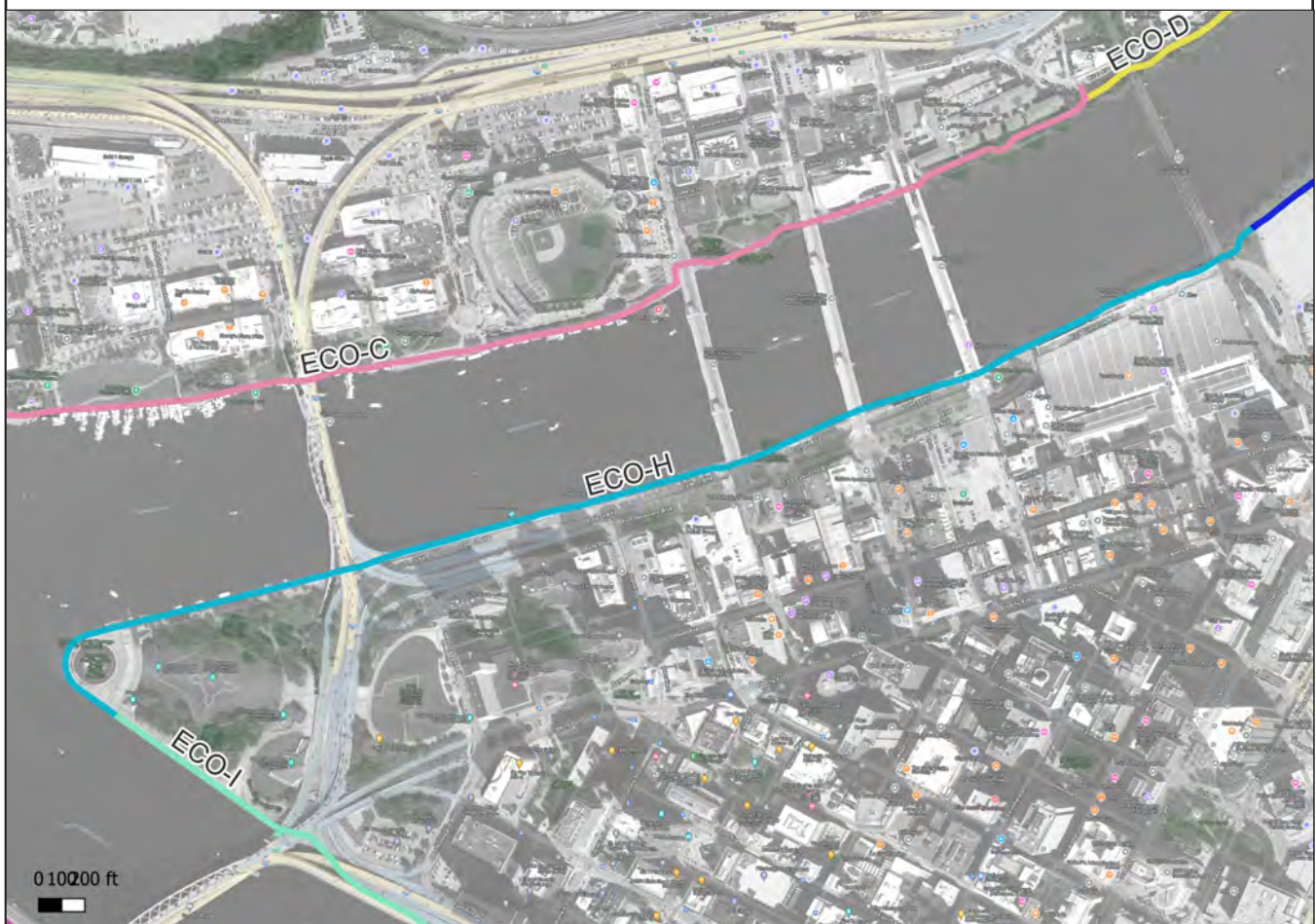
Total Trail Length (ft): 5,890

Allegheny River Downtown (Group H), Ecology Summary

Between the Convention Center and the Point, the trail is concrete without a vegetated buffer on either side.

Anticipated Cost: \$412,677.96

Cost per Linear Foot: \$70.06



Three Rivers Heritage Trail, Eco Group H

SEGMENT: Allegheny South - Section 1, Segment 4

Roberto Clemente Bridge to Rachel Carson Bridge

Length (ft): 1,098

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 87,862
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.67%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.02	AC	\$ 600.00	\$ 1,212.00
Invasive Shrub Control	2.02	AC	\$ 495.00	\$ 999.90
Invasive Vine Control	2.02	AC	\$ 495.00	\$ 999.90
Invasive Herb Control	2.02	AC	\$ 198.00	\$ 399.96
Tree Planting	879	EA	\$ 70.00	\$ 61,530.00
Shrub Planting	76	EA	\$ 70.00	\$ 5,320.00
Herbaceous Seeding	2.02	AC	\$ 2,000.00	\$ 4,040.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 74,501.76

Cost per Ft (\$)

\$ 67.83



Three Rivers Heritage Trail, Eco Group H

SEGMENT: Allegheny South - Section 1, Segment 2

Point State Park Plaza to Wharf

Length (ft): 1,131

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 90,506
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.08	AC	\$ 600.00	\$ 1,248.00
Invasive Shrub Control	2.08	AC	\$ 1,500.00	\$ 3,120.00
Invasive Vine Control	2.08	AC	\$ 1,500.00	\$ 3,120.00
Invasive Herb Control	2.08	AC	\$ 600.00	\$ 1,248.00
Tree Planting	905	EA	\$ 70.00	\$ 63,350.00
Shrub Planting	101	EA	\$ 70.00	\$ 7,070.00
Herbaceous Seeding	2.08	AC	\$ 2,000.00	\$ 4,160.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 83,316.00	\$ 73.64



Three Rivers Heritage Trail, Eco Group H

SEGMENT: Allegheny South - Section 1, Segment 1

The Point to Point State Park Plaza

Length (ft): 1,131

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 90,506
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.08	AC	\$ 600.00	\$ 1,248.00
Invasive Shrub Control	2.08	AC	\$ 1,500.00	\$ 3,120.00
Invasive Vine Control	2.08	AC	\$ 1,500.00	\$ 3,120.00
Invasive Herb Control	2.08	AC	\$ 600.00	\$ 1,248.00
Tree Planting	905	EA	\$ 70.00	\$ 63,350.00
Shrub Planting	101	EA	\$ 70.00	\$ 7,070.00
Herbaceous Seeding	2.08	AC	\$ 2,000.00	\$ 4,160.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 83,316.00	\$ 73.64



Three Rivers Heritage Trail, Eco Group H

SEGMENT: Allegheny South - Section 1, Segment 5

Rachel Carson Bridge to Past Fort Wayne Railroad Bridge

Length (ft): 1,431

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 114,479
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.67%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.63	AC	\$ 600.00	\$ 1,578.00
Invasive Shrub Control	2.63	AC	\$ 495.00	\$ 1,301.85
Invasive Vine Control	2.63	AC	\$ 495.00	\$ 1,301.85
Invasive Herb Control	2.63	AC	\$ 198.00	\$ 520.74
Tree Planting	1,145	EA	\$ 70.00	\$ 80,150.00
Shrub Planting	99	EA	\$ 70.00	\$ 6,930.00
Herbaceous Seeding	2.63	AC	\$ 2,000.00	\$ 5,260.00

Summary by Category

Cost Group

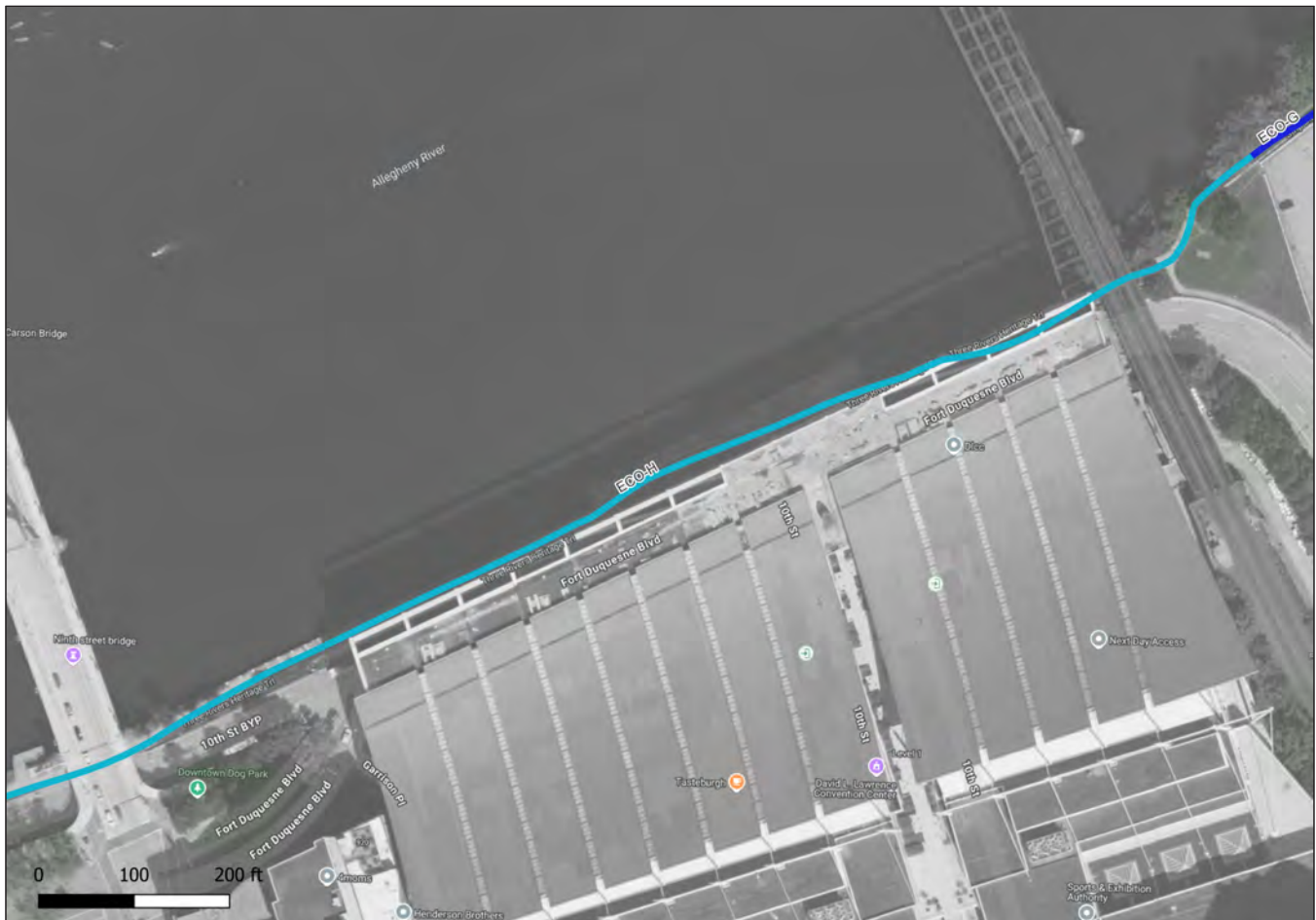
Ecology

Total Cost (\$)

\$ 97,042.44

Cost per Ft (\$)

\$ 67.81



Three Rivers Heritage Trail, Eco Group H

SEGMENT: Allegheny South - Section 1, Segment 3

Wharf to Roberto Clemente Bridge

Length (ft): 1,098

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 87,862
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.67%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.02	AC	\$ 600.00	\$ 1,212.00
Invasive Shrub Control	2.02	AC	\$ 495.00	\$ 999.90
Invasive Vine Control	2.02	AC	\$ 495.00	\$ 999.90
Invasive Herb Control	2.02	AC	\$ 198.00	\$ 399.96
Tree Planting	879	EA	\$ 70.00	\$ 61,530.00
Shrub Planting	76	EA	\$ 70.00	\$ 5,320.00
Herbaceous Seeding	2.02	AC	\$ 2,000.00	\$ 4,040.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 74,501.76	\$ 67.83



Three Rivers Heritage Trail, Eco Group I

Summary Report - Ecology, Group I

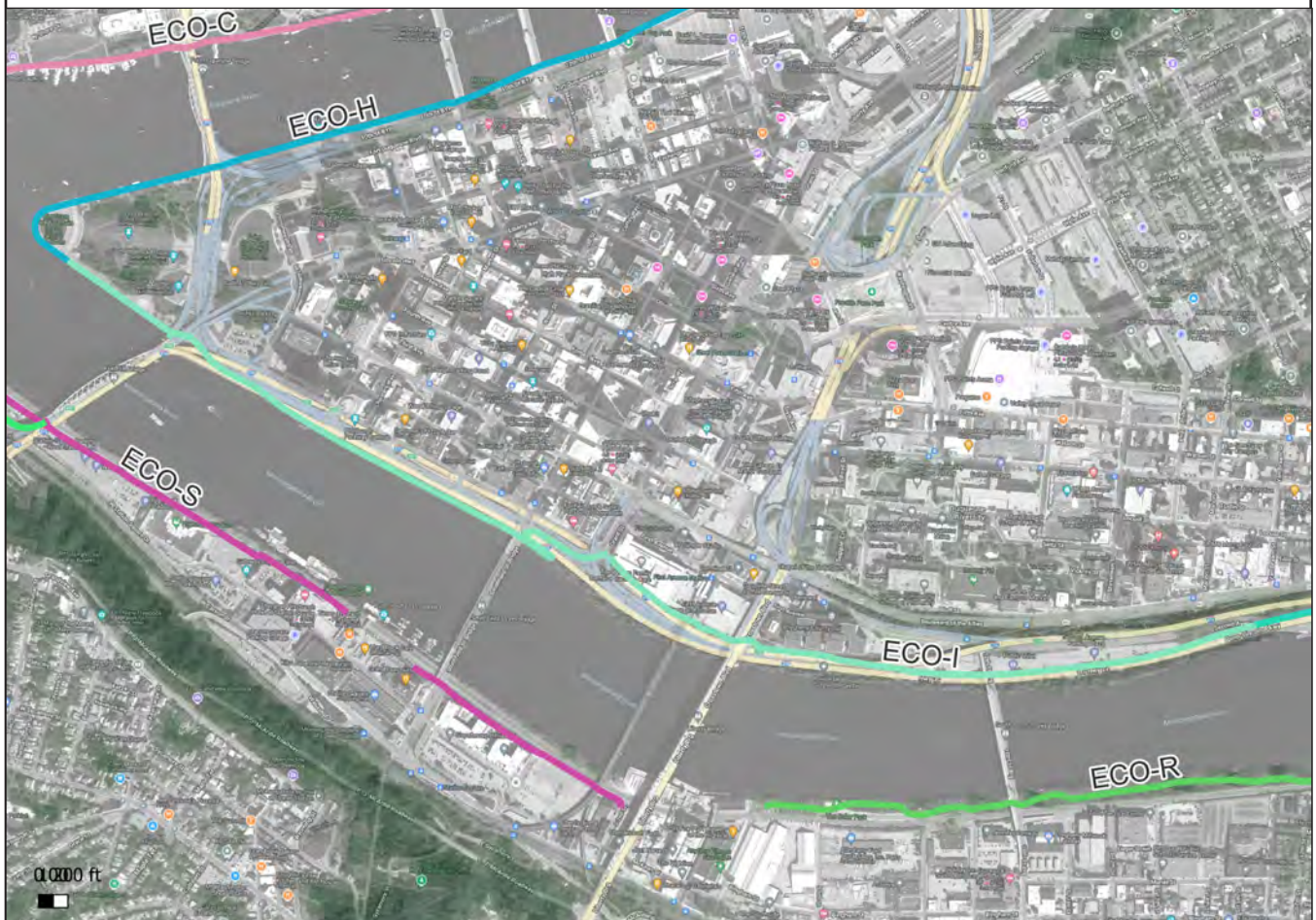
Total Trail Length (ft): 9,405

Mon River Downtown (Group I), Ecology Summary

Between the Point and the Second Avenue Parking Plaza, the trail is concrete or asphalt in variable condition without a vegetated buffer on either side.

Anticipated Cost: \$571,022.00

Cost per Linear Foot: \$60.72



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 1, Segment 1

The Point to Commonwealth Place

Length (ft): 1,474

Ecology Assessment and Observations

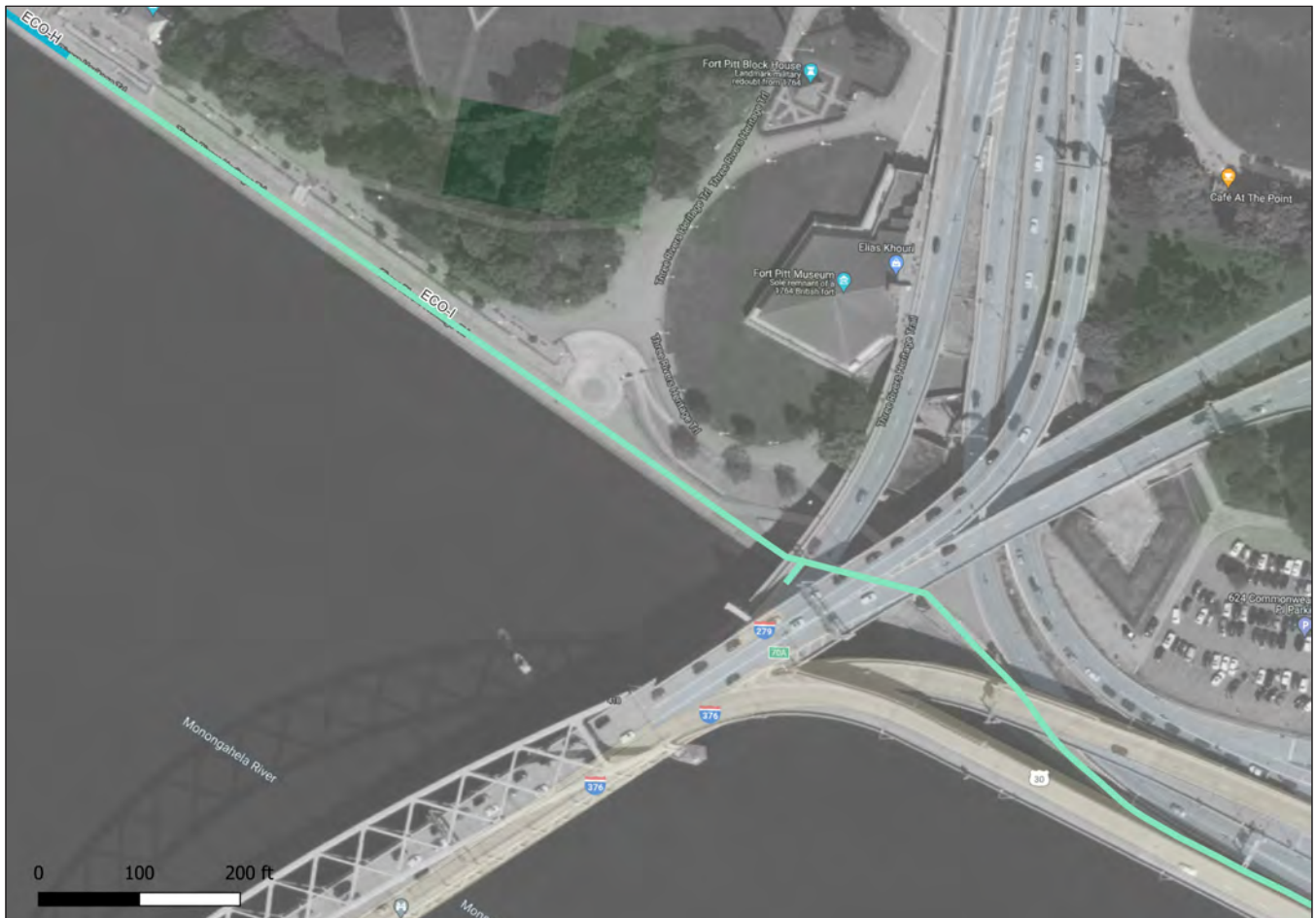
- Ecology Area, Estimated (SF): 117,888
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.71	AC	\$ 600.00	\$ 1,626.00
Invasive Shrub Control	2.71	AC	\$ 1,500.00	\$ 4,065.00
Invasive Vine Control	2.71	AC	\$ 1,500.00	\$ 4,065.00
Invasive Herb Control	2.71	AC	\$ 600.00	\$ 1,626.00
Tree Planting	1,179	EA	\$ 70.00	\$ 82,530.00
Shrub Planting	131	EA	\$ 70.00	\$ 9,170.00
Herbaceous Seeding	2.71	AC	\$ 2,000.00	\$ 5,420.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 108,502.00	\$ 73.63



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 1, Segment 5

Grant Street to Crosstown Blvd

Length (ft): 1,025

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 82,008
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.88	AC	\$ 198.00	\$ 372.24
Invasive Shrub Control	1.88	AC	\$ 1,500.00	\$ 2,820.00
Invasive Vine Control	1.88	AC	\$ 1,500.00	\$ 2,820.00
Invasive Herb Control	1.88	AC	\$ 402.00	\$ 755.76
Tree Planting	452	EA	\$ 70.00	\$ 31,640.00
Shrub Planting	91	EA	\$ 70.00	\$ 6,370.00
Herbaceous Seeding	1.88	AC	\$ 2,000.00	\$ 3,760.00

Summary by Category

Cost Group

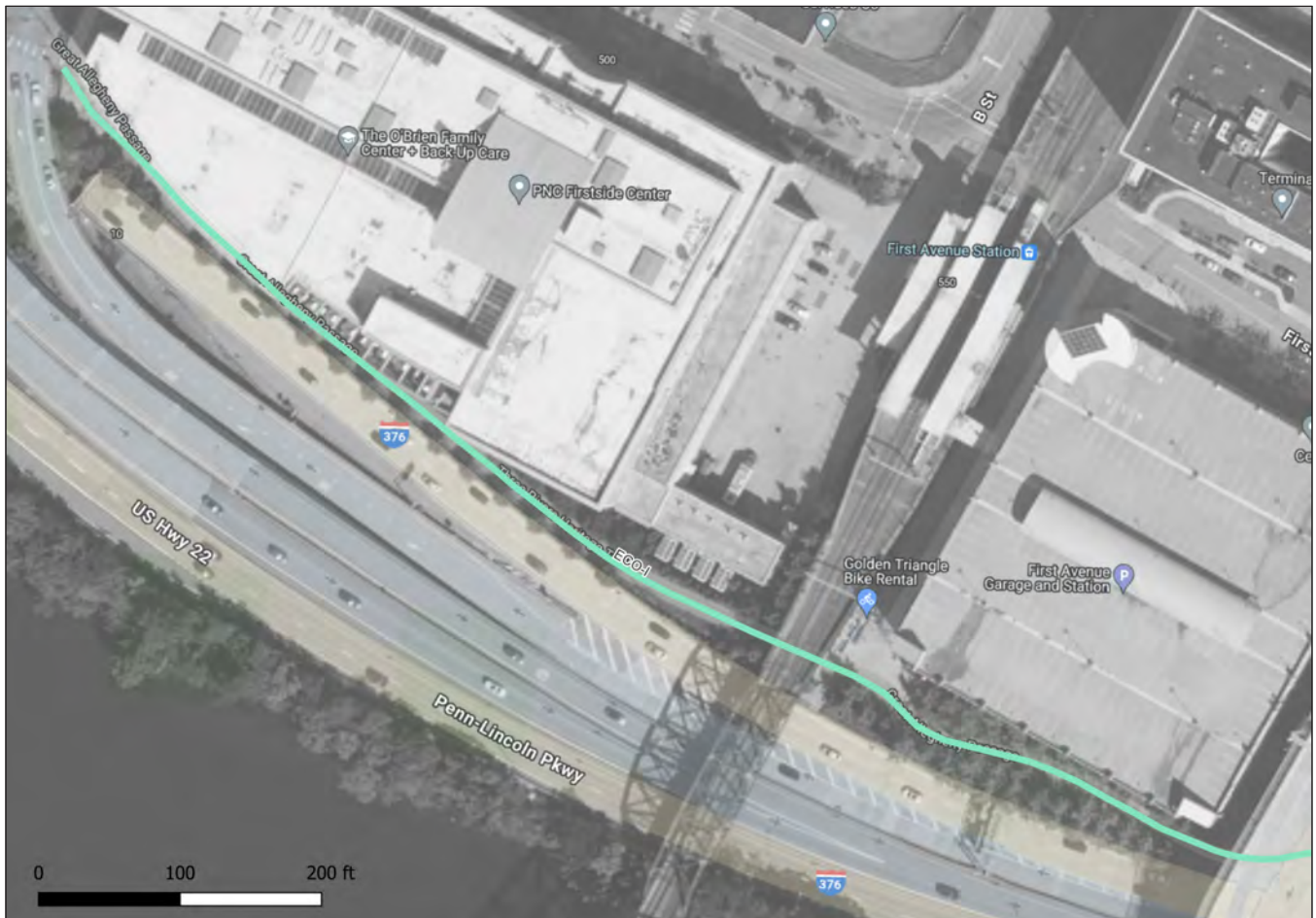
Ecology

Total Cost (\$)

\$ 48,538.00

Cost per Ft (\$)

\$ 47.35



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 1, Segment 2

Commonwealth Place to Mon Wharf Landing (Market St)

Length (ft): 1,123

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 89,830
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.06	AC	\$ 600.00	\$ 1,236.00
Invasive Shrub Control	2.06	AC	\$ 1,500.00	\$ 3,090.00
Invasive Vine Control	2.06	AC	\$ 1,500.00	\$ 3,090.00
Invasive Herb Control	2.06	AC	\$ 600.00	\$ 1,236.00
Tree Planting	898	EA	\$ 70.00	\$ 62,860.00
Shrub Planting	100	EA	\$ 70.00	\$ 7,000.00
Herbaceous Seeding	2.06	AC	\$ 2,000.00	\$ 4,120.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 82,632.00

Cost per Ft (\$)

\$ 73.59



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 1, Segment 3

Mon Wharf Landing (Market St) to Smithfield Street Ramp

Length (ft): 1,123

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 89,830
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.06	AC	\$ 600.00	\$ 1,236.00
Invasive Shrub Control	2.06	AC	\$ 1,500.00	\$ 3,090.00
Invasive Vine Control	2.06	AC	\$ 1,500.00	\$ 3,090.00
Invasive Herb Control	2.06	AC	\$ 600.00	\$ 1,236.00
Tree Planting	898	EA	\$ 70.00	\$ 62,860.00
Shrub Planting	100	EA	\$ 70.00	\$ 7,000.00
Herbaceous Seeding	2.06	AC	\$ 2,000.00	\$ 4,120.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 82,632.00

Cost per Ft (\$)

\$ 73.59



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 1, Segment 4

Smithfield Street Ramp to Grant Street

Length (ft): 1,060

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 84,768
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.95	AC	\$ 600.00	\$ 1,170.00
Invasive Shrub Control	1.95	AC	\$ 1,500.00	\$ 2,925.00
Invasive Vine Control	1.95	AC	\$ 1,500.00	\$ 2,925.00
Invasive Herb Control	1.95	AC	\$ 600.00	\$ 1,170.00
Tree Planting	848	EA	\$ 70.00	\$ 59,360.00
Shrub Planting	94	EA	\$ 70.00	\$ 6,580.00
Herbaceous Seeding	1.95	AC	\$ 2,000.00	\$ 3,900.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 78,030.00

Cost per Ft (\$)

\$ 73.64



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 2, Segment 1

Crosstown Blvd to Allegheny County Jail

Length (ft): 351

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 28,100
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	0.65	AC	\$ 198.00	\$ 128.70
Invasive Shrub Control	0.65	AC	\$ 1,500.00	\$ 975.00
Invasive Vine Control	0.65	AC	\$ 1,500.00	\$ 975.00
Invasive Herb Control	0.65	AC	\$ 402.00	\$ 261.30
Tree Planting	155	EA	\$ 70.00	\$ 10,850.00
Shrub Planting	31	EA	\$ 70.00	\$ 2,170.00
Herbaceous Seeding	0.65	AC	\$ 2,000.00	\$ 1,300.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 16,660.00

Cost per Ft (\$)

\$ 47.43



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 2, Segment 2

Allegheny County Jail to Allegheny County Jail Parking Lot

Length (ft): 673

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 53,843
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.24	AC	\$ 198.00	\$ 245.52
Invasive Shrub Control	1.24	AC	\$ 1,500.00	\$ 1,860.00
Invasive Vine Control	1.24	AC	\$ 1,500.00	\$ 1,860.00
Invasive Herb Control	1.24	AC	\$ 402.00	\$ 498.48
Tree Planting	297	EA	\$ 70.00	\$ 20,790.00
Shrub Planting	60	EA	\$ 70.00	\$ 4,200.00
Herbaceous Seeding	1.24	AC	\$ 2,000.00	\$ 2,480.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 31,934.00	\$ 47.45



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 2, Segment 3

Allegheny County Jail Parking Lot to 10th Street Bridge

Length (ft): 711

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 56,895
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.31	AC	\$ 198.00	\$ 259.38
Invasive Shrub Control	1.31	AC	\$ 1,500.00	\$ 1,965.00
Invasive Vine Control	1.31	AC	\$ 1,500.00	\$ 1,965.00
Invasive Herb Control	1.31	AC	\$ 402.00	\$ 526.62
Tree Planting	314	EA	\$ 70.00	\$ 21,980.00
Shrub Planting	63	EA	\$ 70.00	\$ 4,410.00
Herbaceous Seeding	1.31	AC	\$ 2,000.00	\$ 2,620.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 33,726.00	\$ 47.42



Three Rivers Heritage Trail, Eco Group I

SEGMENT: Monongahela North - Section 2, Segment 4

10th Street Bridge to Second Avenue

Length (ft): 1,865

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 149,230
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	3.43	AC	\$ 198.00	\$ 679.14
Invasive Shrub Control	3.43	AC	\$ 1,500.00	\$ 5,145.00
Invasive Vine Control	3.43	AC	\$ 1,500.00	\$ 5,145.00
Invasive Herb Control	3.43	AC	\$ 402.00	\$ 1,378.86
Tree Planting	822	EA	\$ 70.00	\$ 57,540.00
Shrub Planting	166	EA	\$ 70.00	\$ 11,620.00
Herbaceous Seeding	3.43	AC	\$ 2,000.00	\$ 6,860.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 88,368.00

Cost per Ft (\$)

\$ 47.37



Three Rivers Heritage Trail, Eco Group J

Summary Report - Ecology, Group J

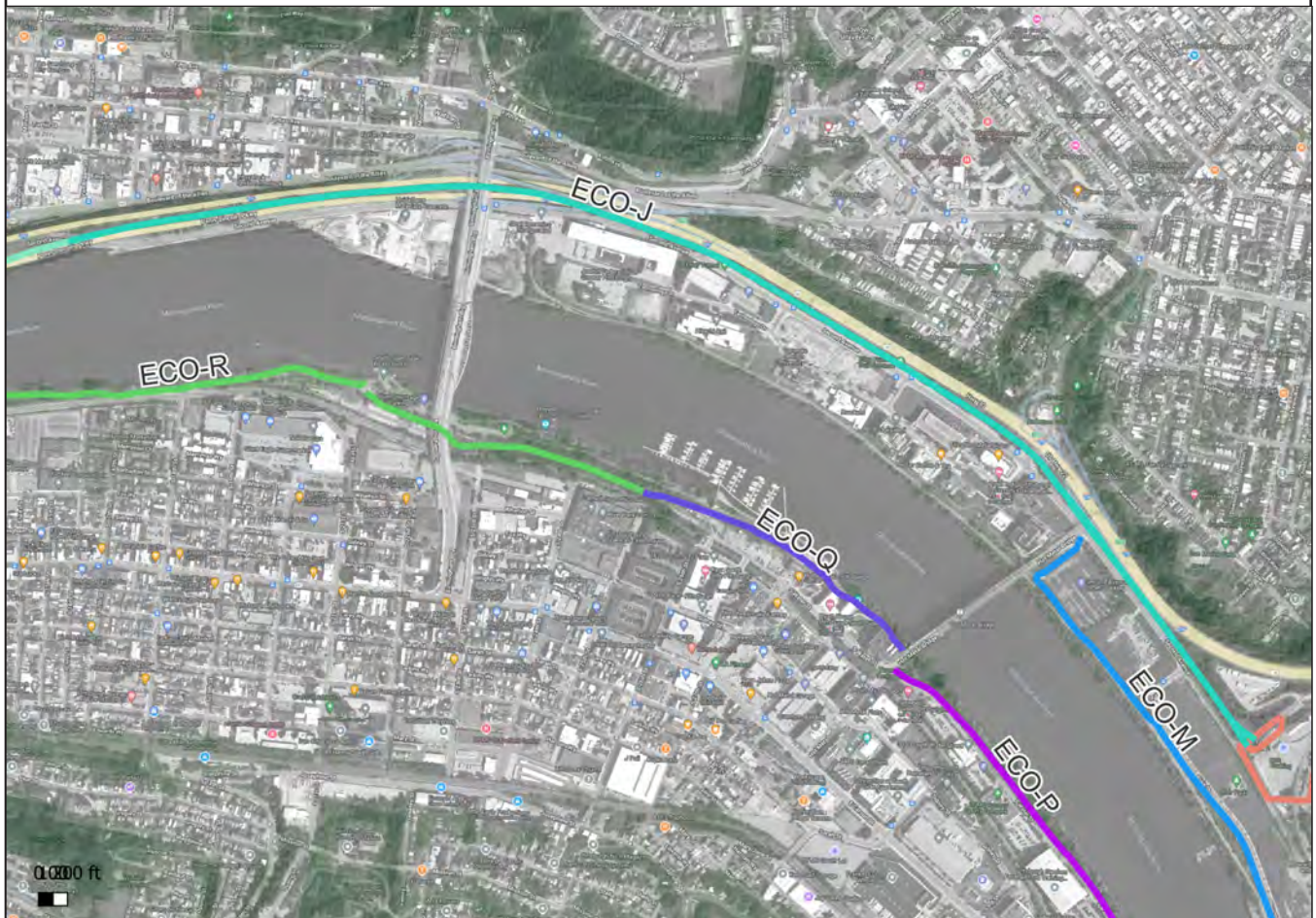
Total Trail Length (ft): 10,219

Eliza Furnace Trail (Group J), Ecology Summary

Between the Second Avenue Parking Plaza and Eliza Furnace Trailhead Parking Lot, there is a narrow strip of vegetation on each side of the trail. Canopy density is low with high density of invasive trees (tree of heaven, callery pear), high density of invasive shrubs (Amur honeysuckle), low density of vines, and high density of invasive herbs (knotweed, narrowleaf cattail, teasel). The trail is asphalt in good condition.

Anticipated Cost: \$399,237.29

Cost per Linear Foot: \$39.07



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 6

Nearby Gist Street to Heidelberg Materials & Concrete

Length (ft): 1,009

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,740
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 198.00	\$ 366.30
Invasive Shrub Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 402.00	\$ 743.70
Tree Planting	445	EA	\$ 70.00	\$ 31,150.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 47,810.00

Cost per Ft (\$)

\$ 47.37



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 13

Hot Metal Bridge Ramp to Trail Above Blair Street

Length (ft): 1,309

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 104,710
- Overall Ecology Score (0-1): 0.02
- Percent Canopy (Measured): 0.02%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.40	AC	\$ 198.00	\$ 475.20
Invasive Shrub Control	2.40	AC	\$ 495.00	\$ 1,188.00
Invasive Vine Control	2.40	AC	\$ 1,500.00	\$ 3,600.00
Invasive Herb Control	2.40	AC	\$ 198.00	\$ 475.20
Tree Planting	363	EA	\$ 70.00	\$ 25,410.00
Shrub Planting	40	EA	\$ 70.00	\$ 2,800.00
Herbaceous Seeding	2.40	AC	\$ 2,000.00	\$ 4,800.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 38,748.40

Cost per Ft (\$)

\$ 29.60



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 10

Technology Drive to Middle Access Drive

Length (ft): 1,009

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,740
- Overall Ecology Score (0-1): 0.10
- Percent Canopy (Measured): 0.10%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 198.00	\$ 366.30
Invasive Shrub Control	1.85	AC	\$ 495.00	\$ 915.75
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 198.00	\$ 366.30
Tree Planting	323	EA	\$ 70.00	\$ 22,610.00
Shrub Planting	36	EA	\$ 70.00	\$ 2,520.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 33,253.35

Cost per Ft (\$)

\$ 32.95



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 9

SDI Building to Technology Drive

Length (ft): 1,009

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,740
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.39%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 198.00	\$ 366.30
Invasive Shrub Control	1.85	AC	\$ 495.00	\$ 915.75
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 198.00	\$ 366.30
Tree Planting	477	EA	\$ 70.00	\$ 33,390.00
Shrub Planting	53	EA	\$ 70.00	\$ 3,710.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 45,223.35

Cost per Ft (\$)

\$ 44.81



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 8

Birmingham Bridge to SDI Building

Length (ft): 1,009

Ecology Assessment and Observations

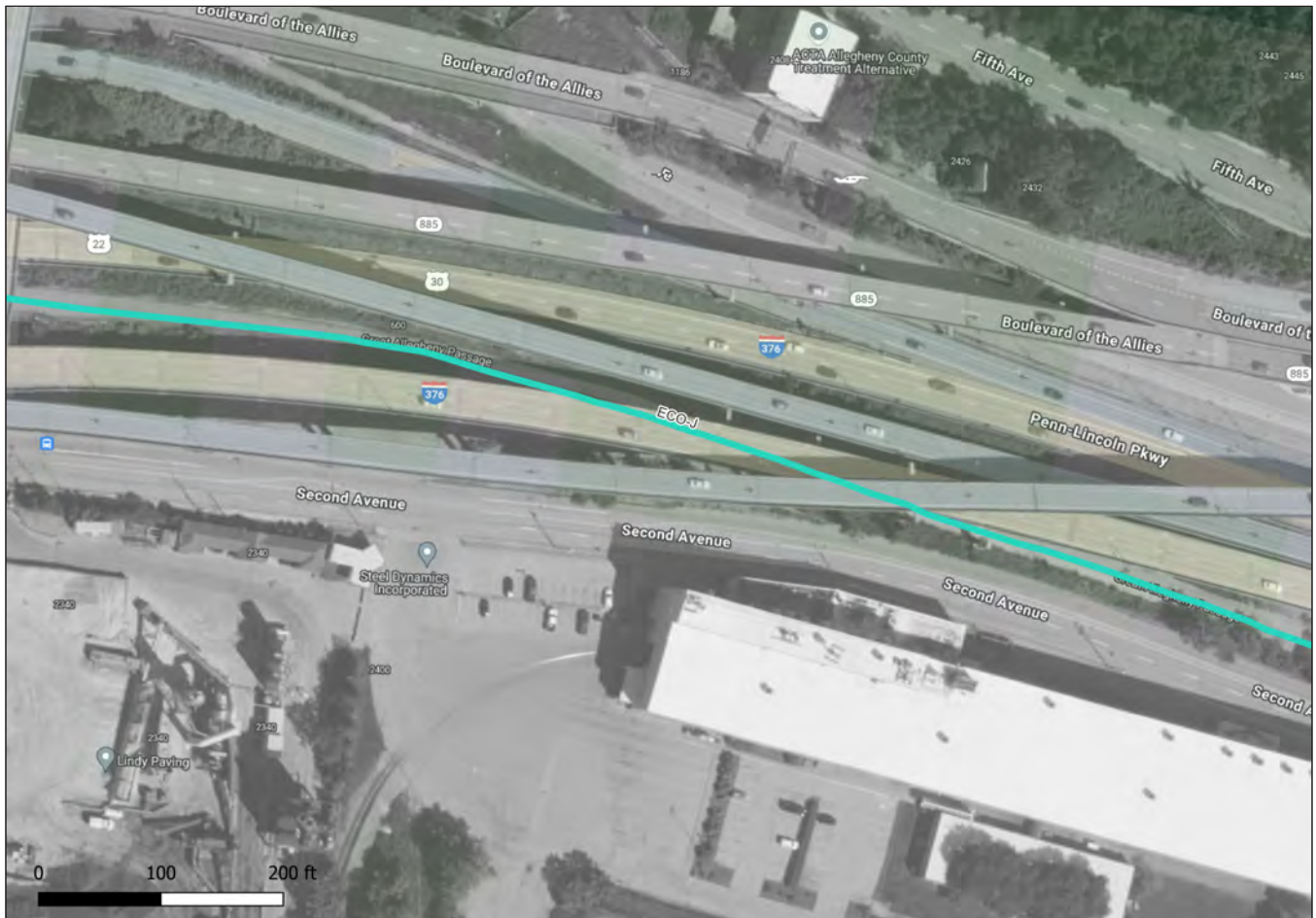
- Ecology Area, Estimated (SF): 80,740
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 198.00	\$ 366.30
Invasive Shrub Control	1.85	AC	\$ 495.00	\$ 915.75
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 198.00	\$ 366.30
Tree Planting	445	EA	\$ 70.00	\$ 31,150.00
Shrub Planting	49	EA	\$ 70.00	\$ 3,430.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 42,703.35	\$ 42.31



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 7

Heidelberg Materials & Concrete to Birmingham Bridge

Length (ft): 1,009

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,740
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 198.00	\$ 366.30
Invasive Shrub Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 402.00	\$ 743.70
Tree Planting	445	EA	\$ 70.00	\$ 31,150.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group

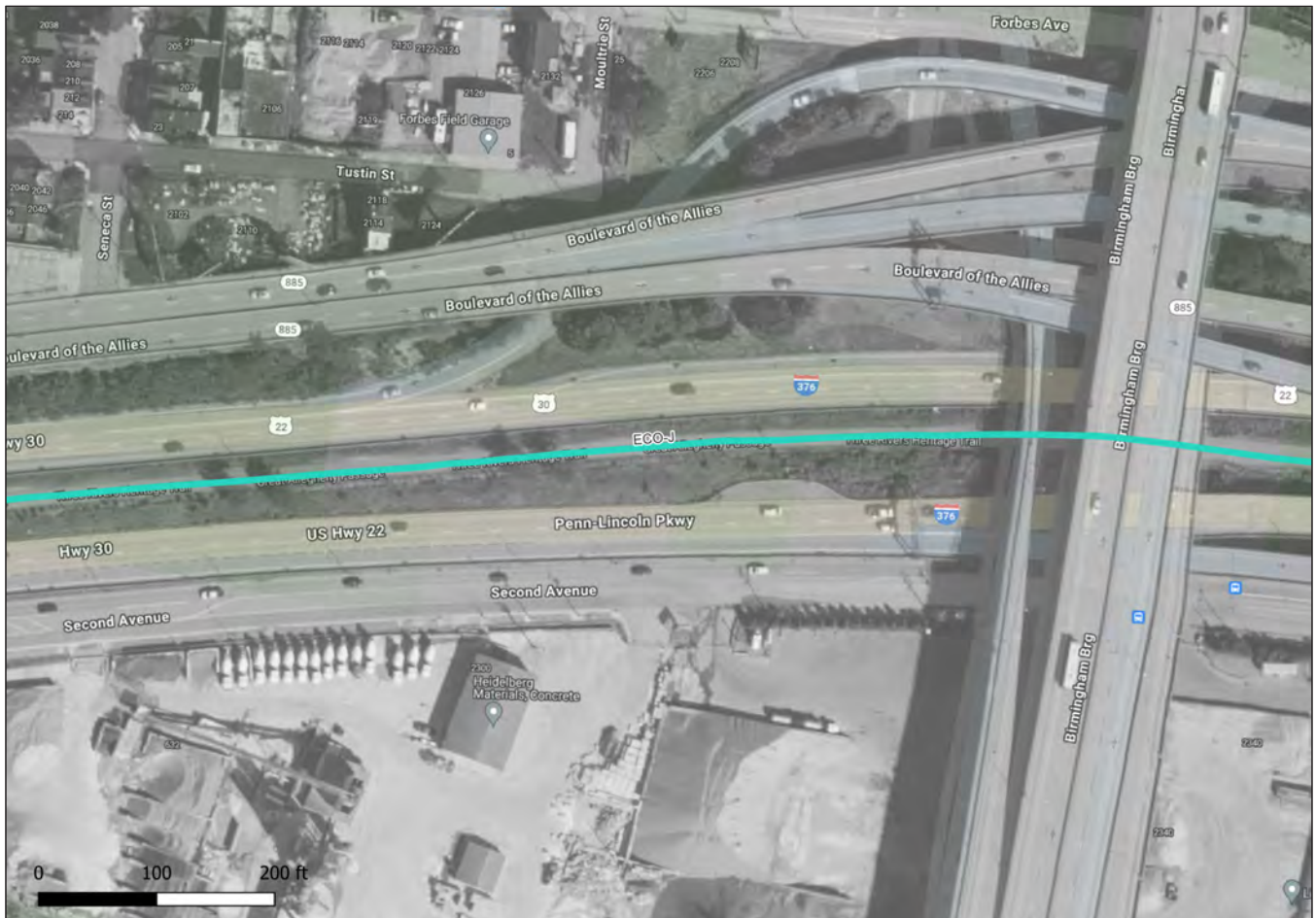
Ecology

Total Cost (\$)

\$ 47,810.00

Cost per Ft (\$)

\$ 47.37



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 5

Second Avenue to Nearby Gist Street

Length (ft): 1,009

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,740
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.67

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.85	AC	\$ 198.00	\$ 366.30
Invasive Shrub Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Vine Control	1.85	AC	\$ 1,500.00	\$ 2,775.00
Invasive Herb Control	1.85	AC	\$ 402.00	\$ 743.70
Tree Planting	445	EA	\$ 70.00	\$ 31,150.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.85	AC	\$ 2,000.00	\$ 3,700.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 47,810.00

Cost per Ft (\$)

\$ 47.37



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 11

Middle Access Drive to Bates Street

Length (ft): 1,026

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 82,098
- Overall Ecology Score (0-1): 0.07
- Percent Canopy (Measured): 0.07%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.88	AC	\$ 198.00	\$ 372.24
Invasive Shrub Control	1.88	AC	\$ 495.00	\$ 930.60
Invasive Vine Control	1.88	AC	\$ 1,500.00	\$ 2,820.00
Invasive Herb Control	1.88	AC	\$ 198.00	\$ 372.24
Tree Planting	308	EA	\$ 70.00	\$ 21,560.00
Shrub Planting	34	EA	\$ 70.00	\$ 2,380.00
Herbaceous Seeding	1.88	AC	\$ 2,000.00	\$ 3,760.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 32,195.08	\$ 31.37



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 12

Bates Street to Hot Metal Bridge Ramp

Length (ft): 887

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 70,921
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.63	AC	\$ 198.00	\$ 322.74
Invasive Shrub Control	1.63	AC	\$ 495.00	\$ 806.85
Invasive Vine Control	1.63	AC	\$ 1,500.00	\$ 2,445.00
Invasive Herb Control	1.63	AC	\$ 198.00	\$ 322.74
Tree Planting	236	EA	\$ 70.00	\$ 16,520.00
Shrub Planting	26	EA	\$ 70.00	\$ 1,820.00
Herbaceous Seeding	1.63	AC	\$ 2,000.00	\$ 3,260.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 25,497.33

Cost per Ft (\$)

\$ 28.76



Three Rivers Heritage Trail, Eco Group J

SEGMENT: Monongahela North - Section 2, Segment 14

Trail Above Blair Street to UPMC Parking Lot

Length (ft): 942

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 75,361
- Overall Ecology Score (0-1): 0.29
- Percent Canopy (Measured): 0.29%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.73	AC	\$ 198.00	\$ 342.54
Invasive Shrub Control	1.73	AC	\$ 495.00	\$ 856.35
Invasive Vine Control	1.73	AC	\$ 1,500.00	\$ 2,595.00
Invasive Herb Control	1.73	AC	\$ 198.00	\$ 342.54
Tree Planting	393	EA	\$ 70.00	\$ 27,510.00
Shrub Planting	44	EA	\$ 70.00	\$ 3,080.00
Herbaceous Seeding	1.73	AC	\$ 2,000.00	\$ 3,460.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 38,186.43

Cost per Ft (\$)

\$ 40.54



Three Rivers Heritage Trail, Eco Group K

Summary Report - Ecology, Group K

Total Trail Length (ft): 3,002

Panther Hollow Connector (Group K), Ecology Summary

Between the Eliza Furnace Trailhead Parking Lot and Schenley Park (to the parking lot), the trail consists mainly of sidewalks along roads and asphalt connectors through neighborhood parks. Patches of vegetation on the uphill side (between the trail and railroad) are characterized by low canopy density, low density of invasive trees, shrubs, and vines, and high density of herbs (knotweed).

Anticipated Cost: \$143,010.78

Cost per Linear Foot: \$47.64



Three Rivers Heritage Trail, Eco Group K

SEGMENT: Monongahela North - Section 2, Segment 16

Saline Street to Second Avenue

Length (ft): 1,120

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 89,563
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.06	AC	\$ 600.00	\$ 1,236.00
Invasive Shrub Control	2.06	AC	\$ 1,500.00	\$ 3,090.00
Invasive Vine Control	2.06	AC	\$ 1,500.00	\$ 3,090.00
Invasive Herb Control	2.06	AC	\$ 198.00	\$ 407.88
Tree Planting	896	EA	\$ 70.00	\$ 62,720.00
Shrub Planting	100	EA	\$ 70.00	\$ 7,000.00
Herbaceous Seeding	2.06	AC	\$ 2,000.00	\$ 4,120.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 81,663.88	\$ 72.94



Three Rivers Heritage Trail, Eco Group K

SEGMENT: Monongahela North - Section 2, Segment 17

Naylor Street to Saline Street

Length (ft): 841

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 67,309
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.55	AC	\$ 600.00	\$ 930.00
Invasive Shrub Control	1.55	AC	\$ 1,500.00	\$ 2,325.00
Invasive Vine Control	1.55	AC	\$ 1,500.00	\$ 2,325.00
Invasive Herb Control	1.55	AC	\$ 198.00	\$ 306.90
Tree Planting	673	EA	\$ 70.00	\$ 47,110.00
Shrub Planting	75	EA	\$ 70.00	\$ 5,250.00
Herbaceous Seeding	1.55	AC	\$ 2,000.00	\$ 3,100.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 61,346.90

Cost per Ft (\$)

\$ 72.91



Three Rivers Heritage Trail, Eco Group K

SEGMENT: Monongahela North - Section 2, Segment 15

Second Avenue to UPMC Parking Lot

Length (ft): 1,041

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 83,281
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 0.00
- Invasive Shrub Factor: 0.00
- Invasive Vine Factor: 0.00
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.91	AC	\$ 0.00	\$ 0.00
Invasive Shrub Control	1.91	AC	\$ 0.00	\$ 0.00
Invasive Vine Control	1.91	AC	\$ 0.00	\$ 0.00
Invasive Herb Control	1.91	AC	\$ 0.00	\$ 0.00
Tree Planting	0	EA	\$ 70.00	\$ 0.00
Shrub Planting	0	EA	\$ 70.00	\$ 0.00
Herbaceous Seeding	0.00	AC	\$ 2,000.00	\$ 0.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 0.00	\$ 0.00



Three Rivers Heritage Trail, Eco Group L

Summary Report - Ecology, Group L

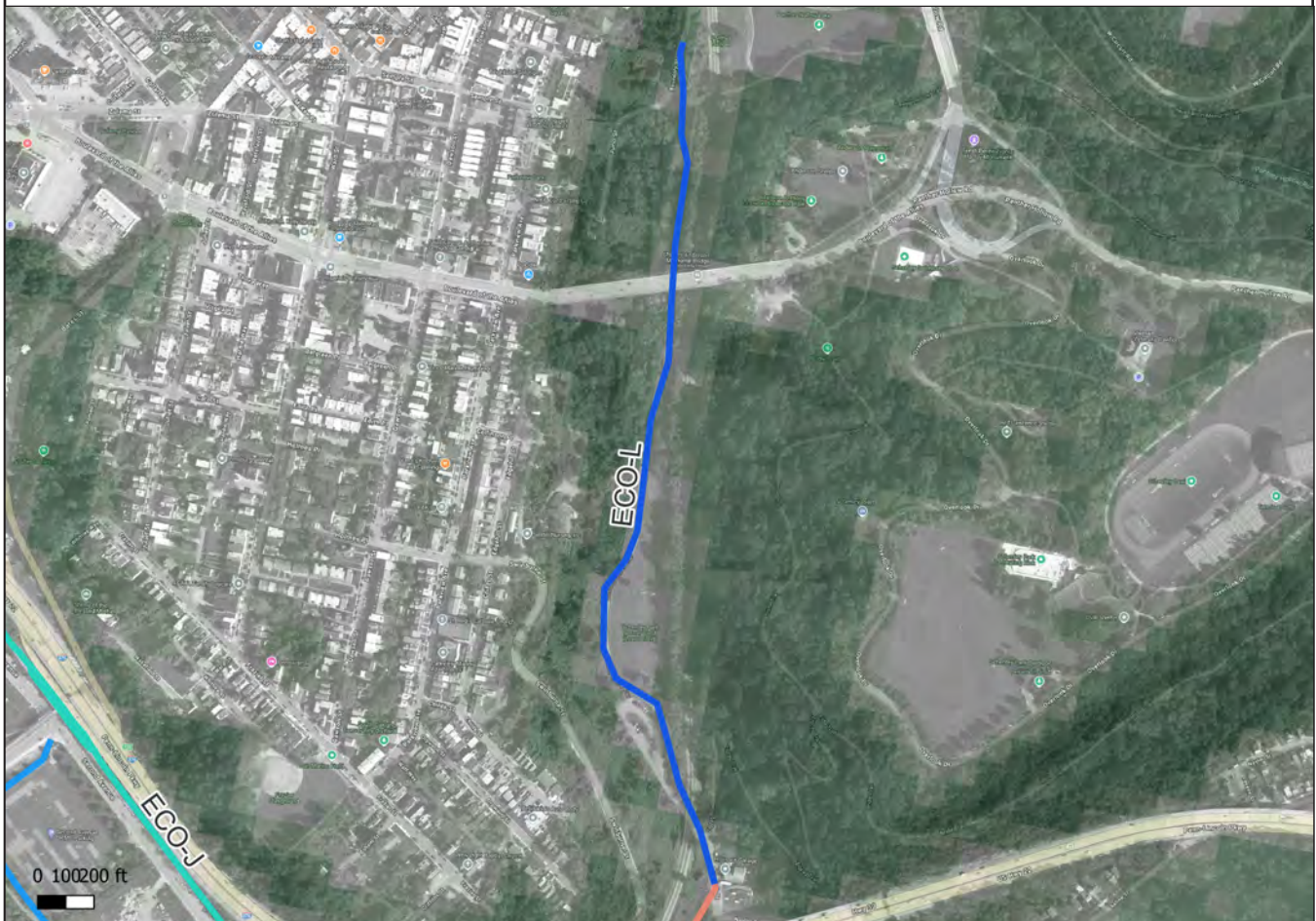
Total Trail Length (ft): 3,169

Panther Hollow (Group L), Ecology Summary

The trail in Schenley Park is asphalt in good condition. Canopy density is low with low density of invasive trees and shrubs. Invasive vine density is high (porcelain berry) and invasive herb density is high (knotweed). It is assumed that vegetation management along this section of trail within Schenley Park is the responsibility of DPW Parks Division, not DOMI, so costs are not calculated for vegetation management.

Anticipated Cost: \$225,015.26

Cost per Linear Foot: \$71.00



Three Rivers Heritage Trail, Eco Group L

SEGMENT: Monongahela North - Section 2, Segment 20

Boundary Street to Under Blvd of the Allies

Length (ft): 845

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 67,597
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.55	AC	\$ 600.00	\$ 930.00
Invasive Shrub Control	1.55	AC	\$ 1,500.00	\$ 2,325.00
Invasive Vine Control	1.55	AC	\$ 495.00	\$ 767.25
Invasive Herb Control	1.55	AC	\$ 198.00	\$ 306.90
Tree Planting	676	EA	\$ 70.00	\$ 47,320.00
Shrub Planting	75	EA	\$ 70.00	\$ 5,250.00
Herbaceous Seeding	1.55	AC	\$ 2,000.00	\$ 3,100.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 59,999.15

Cost per Ft (\$)

\$ 71.01



Three Rivers Heritage Trail, Eco Group L

SEGMENT: Monongahela North - Section 2, Segment 19

Under Blvd of the Allies to Schenley Soccer Field

Length (ft): 1,186

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 94,905
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.18	AC	\$ 600.00	\$ 1,308.00
Invasive Shrub Control	2.18	AC	\$ 1,500.00	\$ 3,270.00
Invasive Vine Control	2.18	AC	\$ 495.00	\$ 1,079.10
Invasive Herb Control	2.18	AC	\$ 198.00	\$ 431.64
Tree Planting	949	EA	\$ 70.00	\$ 66,430.00
Shrub Planting	105	EA	\$ 70.00	\$ 7,350.00
Herbaceous Seeding	2.18	AC	\$ 2,000.00	\$ 4,360.00

Summary by Category

Cost Group

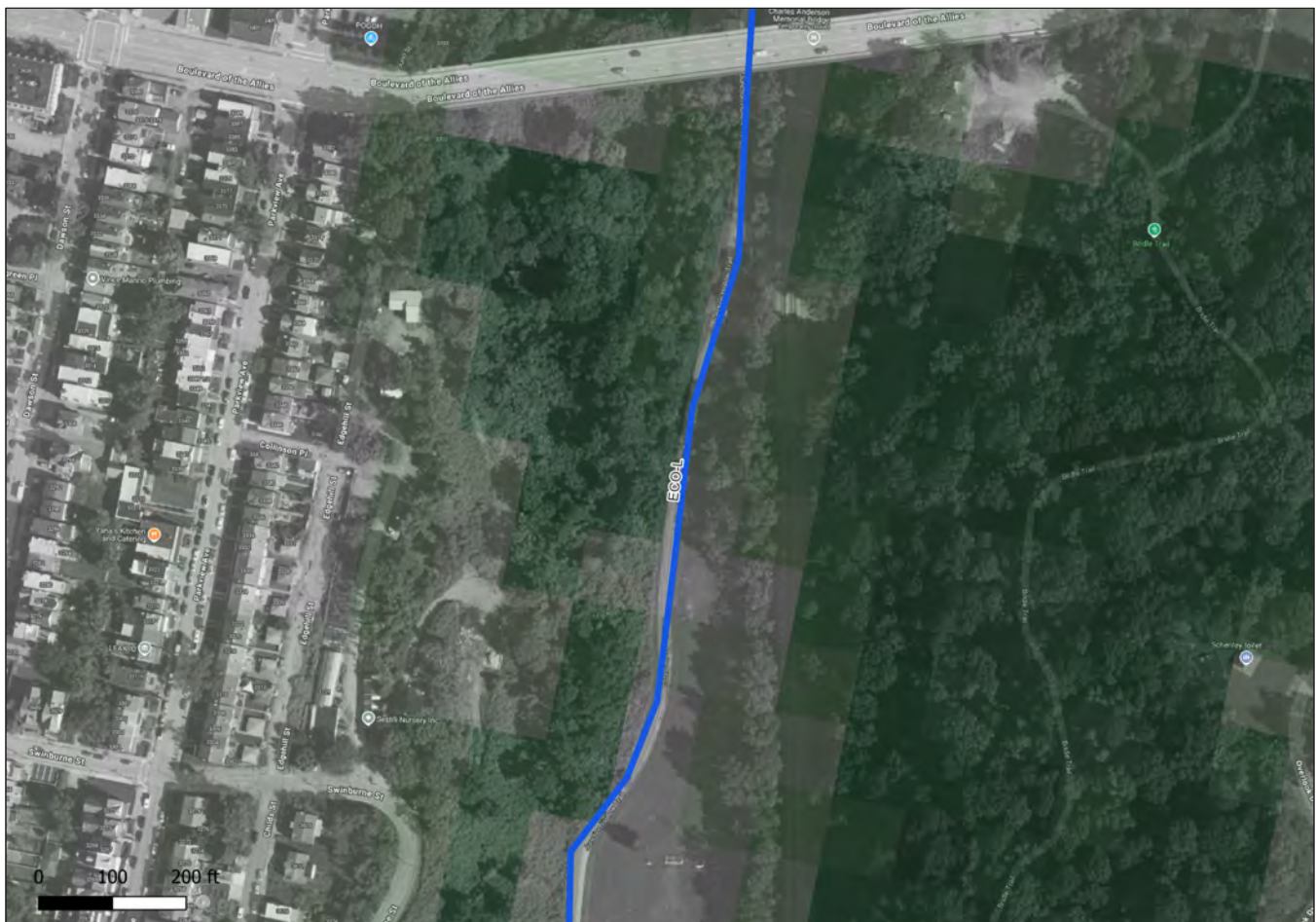
Ecology

Total Cost (\$)

\$ 84,228.74

Cost per Ft (\$)

\$ 71.00



Three Rivers Heritage Trail, Eco Group L

SEGMENT: Monongahela North - Section 2, Segment 18

Schenley Soccer Field to Naylor Street

Length (ft): 1,138

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 91,049
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.09	AC	\$ 600.00	\$ 1,254.00
Invasive Shrub Control	2.09	AC	\$ 1,500.00	\$ 3,135.00
Invasive Vine Control	2.09	AC	\$ 495.00	\$ 1,034.55
Invasive Herb Control	2.09	AC	\$ 198.00	\$ 413.82
Tree Planting	910	EA	\$ 70.00	\$ 63,700.00
Shrub Planting	101	EA	\$ 70.00	\$ 7,070.00
Herbaceous Seeding	2.09	AC	\$ 2,000.00	\$ 4,180.00

Summary by Category

Cost Group

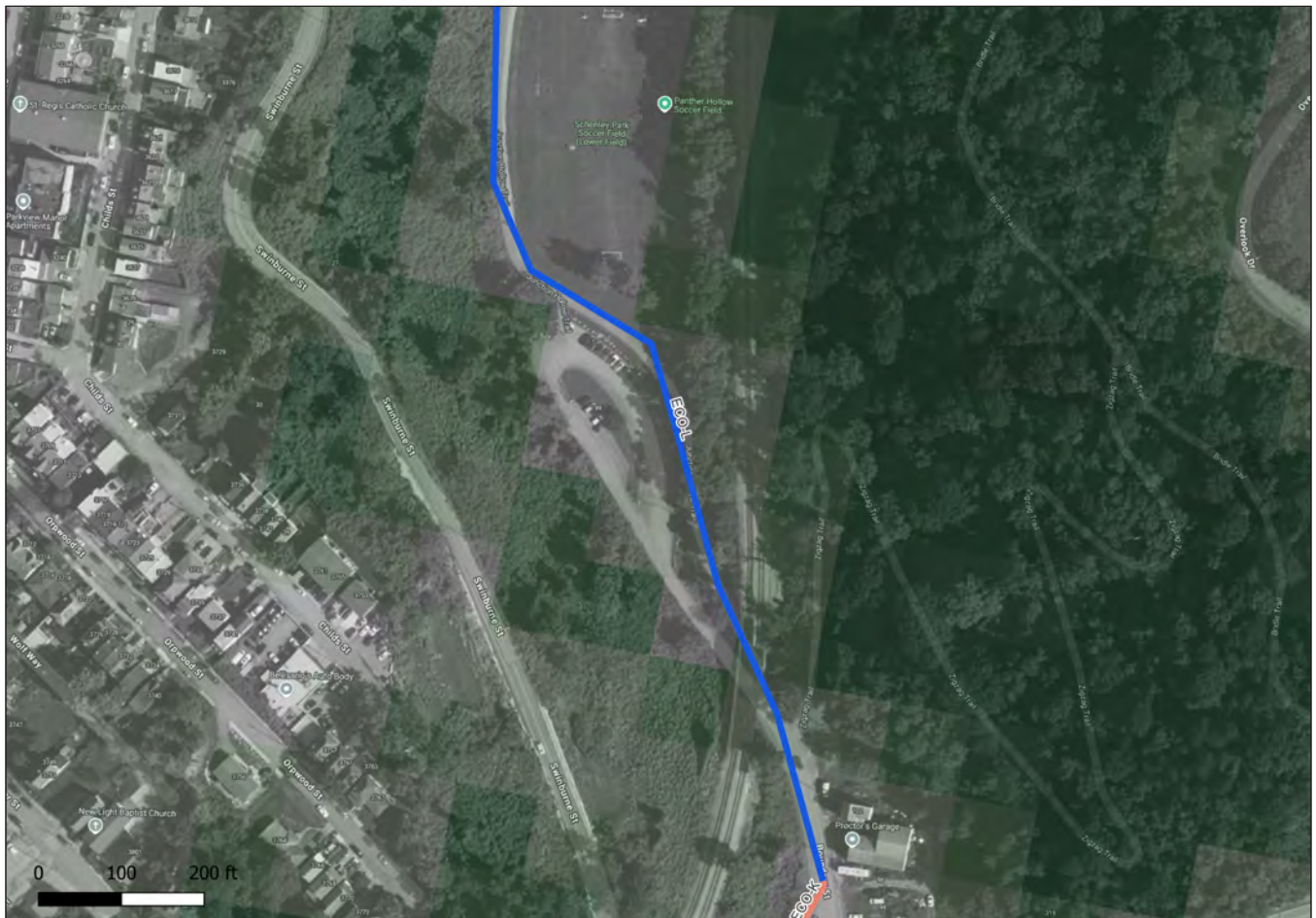
Ecology

Total Cost (\$)

\$ 80,787.37

Cost per Ft (\$)

\$ 70.98



Three Rivers Heritage Trail, Eco Group M

Summary Report - Ecology, Group M

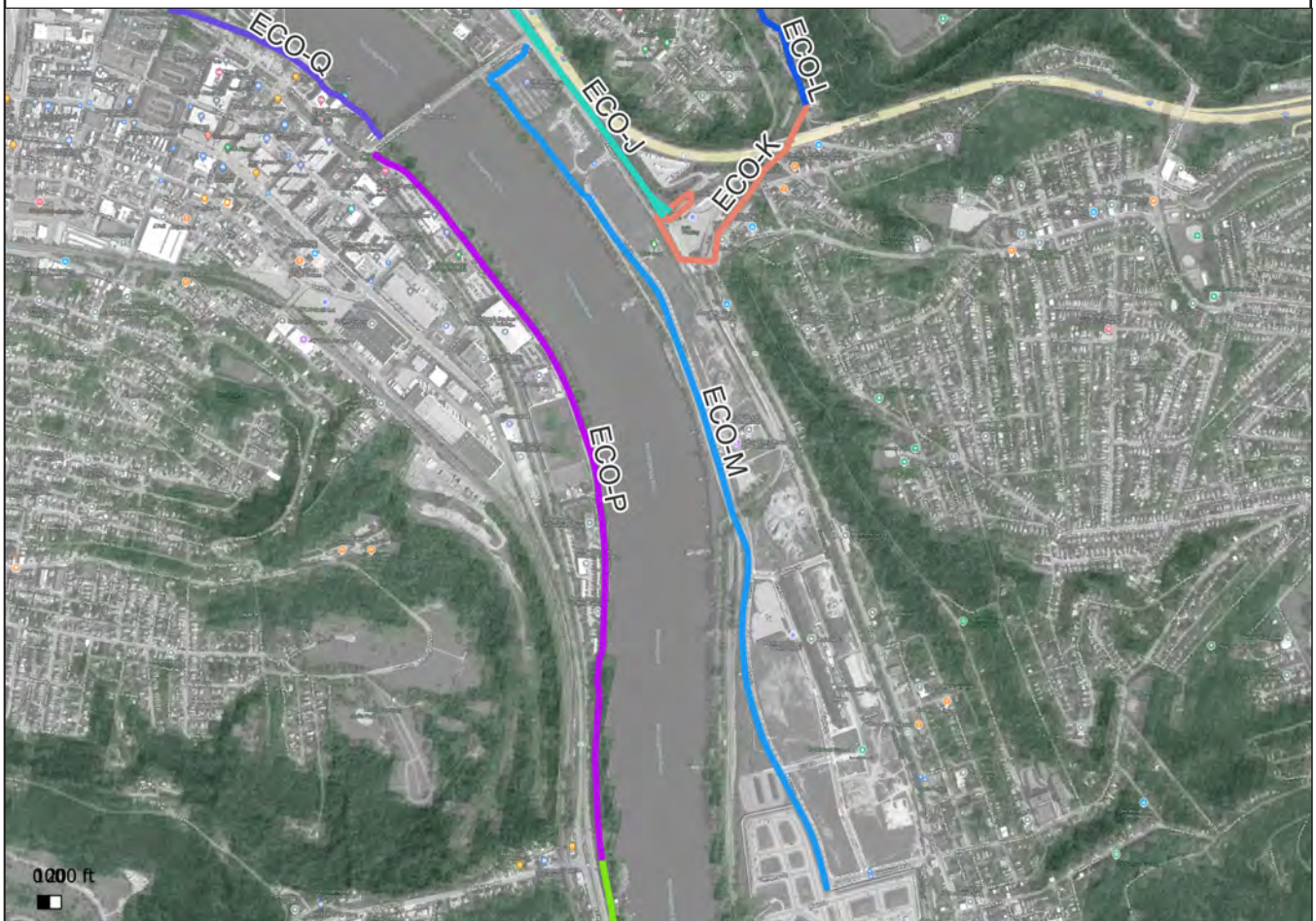
Total Trail Length (ft): 8,008

Hazelwood Trail (Group M), Ecology Summary

The Hazelwood Trail consists mainly of crushed limestone between Hot Metal Street and Blair Street and sidewalk along Blair Street to Second Avenue. Canopy density is low with low density of invasive trees. Invasive shrub density is high, but only adjacent to the parking lot at Hot Metal Street, where there is an extensive hedge of burning bush (aka winged euonymus). Invasive vine density is low and invasive herb density is high (knotweed, mugwort).

Anticipated Cost: \$574,594.62

Cost per Linear Foot: \$71.75



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 2

Second Ave UPMC Parking to Past Blair Street

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 495.00	\$ 920.70
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	50	EA	\$ 70.00	\$ 3,500.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 68,974.98

Cost per Ft (\$)

\$ 68.25



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 1

Hot Metal Bridge Ramp to Second Ave UPMC Parking

Length (ft): 934

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 74,718
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.72	AC	\$ 600.00	\$ 1,032.00
Invasive Shrub Control	1.72	AC	\$ 495.00	\$ 851.40
Invasive Vine Control	1.72	AC	\$ 1,500.00	\$ 2,580.00
Invasive Herb Control	1.72	AC	\$ 198.00	\$ 340.56
Tree Planting	747	EA	\$ 70.00	\$ 52,290.00
Shrub Planting	46	EA	\$ 70.00	\$ 3,220.00
Herbaceous Seeding	1.72	AC	\$ 2,000.00	\$ 3,440.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 63,753.96

Cost per Ft (\$)

\$ 68.26



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 3

Past Blair Street to Mid Blair Street

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 73,644.28

Cost per Ft (\$)

\$ 72.88



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 4

Mid Blair Street to Roundhouse

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 73,644.28

Cost per Ft (\$)

\$ 72.88



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 5

Roundhouse to Beehive Street

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 73,644.28	\$ 72.88



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 6

Beehive Street to Hazelwood Green Parking Lot #1

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 73,644.28	\$ 72.88



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 7

Hazelwood Green Parking Lot #1 to Eliza Street

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 73,644.28	\$ 72.88



Three Rivers Heritage Trail, Eco Group M

SEGMENT: Monongahela North - Section 3, Segment 8

Eliza Street to Hazelwood Avenue

Length (ft): 1,011

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 80,844
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.86	AC	\$ 600.00	\$ 1,116.00
Invasive Shrub Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Vine Control	1.86	AC	\$ 1,500.00	\$ 2,790.00
Invasive Herb Control	1.86	AC	\$ 198.00	\$ 368.28
Tree Planting	808	EA	\$ 70.00	\$ 56,560.00
Shrub Planting	90	EA	\$ 70.00	\$ 6,300.00
Herbaceous Seeding	1.86	AC	\$ 2,000.00	\$ 3,720.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 73,644.28

Cost per Ft (\$)

\$ 72.88



Three Rivers Heritage Trail, Eco Group N

Summary Report - Ecology, Group N

Total Trail Length (ft): 8,678

Duck Hollow Trail (Group N), Ecology Summary

The Duck Hollow Trail extends from Sickie Street to Nine Mile Run in Duck Hollow. It is characterized by an asphalt trail in variable condition with wide vegetated buffers on both sides of the trail (defined by the river on one side and a railroad on the other). Despite extensive wooded reaches, overall canopy density was rated as low with high invasive tree density (tree of heaven, white mulberry), high density of invasive shrubs (Amur honeysuckle, medium to high density of vines (porcelain berry, oriental bittersweet), and high density of invasive herbs (knotweed, mugwort).

Anticipated Cost: \$504,567.92

Cost per Linear Foot: \$58.14



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 1
2nd Avenue to Beyond Rail Bridge
Length (ft): 998

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 79,861
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.84%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.83	AC	\$ 198.00	\$ 362.34
Invasive Shrub Control	1.83	AC	\$ 1,500.00	\$ 2,745.00
Invasive Vine Control	1.83	AC	\$ 1,500.00	\$ 2,745.00
Invasive Herb Control	1.83	AC	\$ 198.00	\$ 362.34
Tree Planting	715	EA	\$ 70.00	\$ 50,050.00
Shrub Planting	89	EA	\$ 70.00	\$ 6,230.00
Herbaceous Seeding	1.83	AC	\$ 2,000.00	\$ 3,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 66,154.68	\$ 66.27



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 3

Trail Opposite Sand Castle to Trail Opposite Costco

Length (ft): 1,085

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,766
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.82%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	763	EA	\$ 70.00	\$ 53,410.00
Shrub Planting	85	EA	\$ 70.00	\$ 5,950.00
Herbaceous Seeding	1.33	AC	\$ 2,000.00	\$ 2,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 65,793.04	\$ 60.66



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 7

Trail Opposite Waterfront Drive to Homestead Grays Bridge

Length (ft): 1,085

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,766
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.63%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	654	EA	\$ 70.00	\$ 45,780.00
Shrub Planting	73	EA	\$ 70.00	\$ 5,110.00
Herbaceous Seeding	1.33	AC	\$ 2,000.00	\$ 2,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 57,323.04	\$ 52.85



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 6

Trail Opposite Courtyard Pittsburgh to Opposite Waterfront

Length (ft): 1,085

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,766
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.75%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	724	EA	\$ 70.00	\$ 50,680.00
Shrub Planting	80	EA	\$ 70.00	\$ 5,600.00
Herbaceous Seeding	1.33	AC	\$ 2,000.00	\$ 2,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 62,713.04	\$ 57.82



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 5

Trail Opposite Costco to Trail Opposite Courtyard

Length (ft): 1,085

Ecology Assessment and Observations

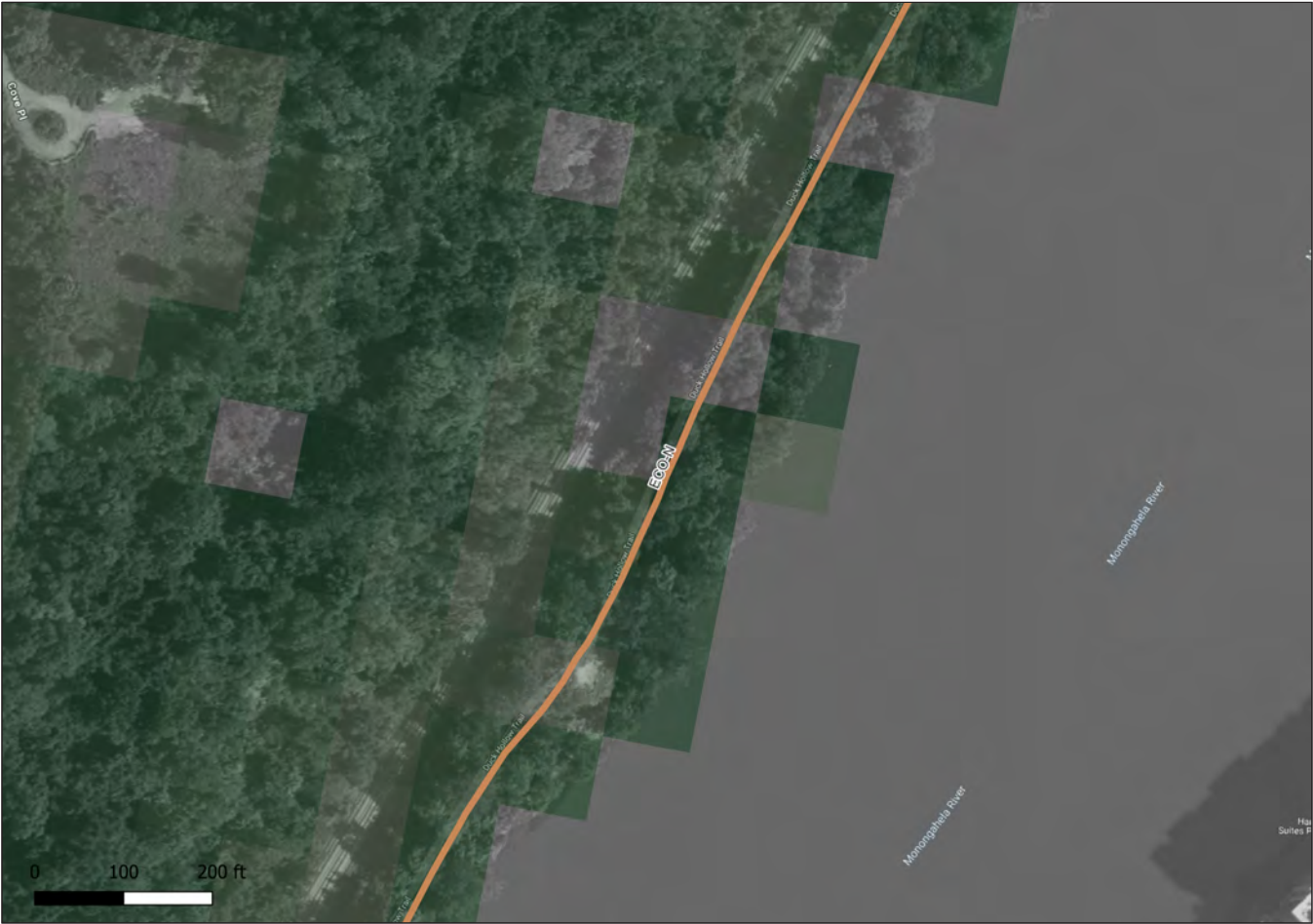
- Ecology Area, Estimated (SF): 86,766
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.79%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	747	EA	\$ 70.00	\$ 52,290.00
Shrub Planting	83	EA	\$ 70.00	\$ 5,810.00
Herbaceous Seeding	1.33	AC	\$ 2,000.00	\$ 2,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 64,533.04	\$ 59.50



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 4

Trail Opposite Sand Castle to Trail Opposite Costco

Length (ft): 1,085

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,766
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.72%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	707	EA	\$ 70.00	\$ 49,490.00
Shrub Planting	79	EA	\$ 70.00	\$ 5,530.00
Herbaceous Seeding	1.33	AC	\$ 2,000.00	\$ 2,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 61,453.04	\$ 56.66



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 2
Beyond Rail Bridge to Trail Opposite Sand Castle
Length (ft): 1,085

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,766
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.75%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,005.00	\$ 1,999.95
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	720	EA	\$ 70.00	\$ 50,400.00
Shrub Planting	80	EA	\$ 70.00	\$ 5,600.00
Herbaceous Seeding	1.33	AC	\$ 2,000.00	\$ 2,660.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 62,433.04	\$ 57.56



Three Rivers Heritage Trail, Eco Group N

SEGMENT: Monongahela North - Section 4, Segment 8

Homestead Grays Bridge to Duck Hollow Trailhead

Length (ft): 1,172

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 93,769
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 0.67
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.15	AC	\$ 402.00	\$ 864.30
Invasive Shrub Control	2.15	AC	\$ 1,005.00	\$ 2,160.75
Invasive Vine Control	2.15	AC	\$ 495.00	\$ 1,064.25
Invasive Herb Control	2.15	AC	\$ 198.00	\$ 425.70
Tree Planting	730	EA	\$ 70.00	\$ 51,100.00
Shrub Planting	81	EA	\$ 70.00	\$ 5,670.00
Herbaceous Seeding	1.44	AC	\$ 2,000.00	\$ 2,880.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 64,165.00	\$ 54.74



Three Rivers Heritage Trail, Eco Group O

Summary Report - Ecology, Group O

Total Trail Length (ft): 1,846

Hayes (Group O), Ecology Summary

The small section of trail in the City of Pittsburgh's Hayes neighborhood lacks a vegetated buffer.

Anticipated Cost: \$135,818.00

Cost per Linear Foot: \$73.59



Three Rivers Heritage Trail, Eco Group 0

SEGMENT: Monongahela South - Section 3, Segment 8

Trail Along E Carson St to Glenshaw Bridgeshow Bridge

Length (ft): 1,118

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 89,406
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.05	AC	\$ 600.00	\$ 1,230.00
Invasive Shrub Control	2.05	AC	\$ 1,500.00	\$ 3,075.00
Invasive Vine Control	2.05	AC	\$ 1,500.00	\$ 3,075.00
Invasive Herb Control	2.05	AC	\$ 600.00	\$ 1,230.00
Tree Planting	894	EA	\$ 70.00	\$ 62,580.00
Shrub Planting	99	EA	\$ 70.00	\$ 6,930.00
Herbaceous Seeding	2.05	AC	\$ 2,000.00	\$ 4,100.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 82,220.00	\$ 73.57



Three Rivers Heritage Trail, Eco Group 0

SEGMENT: Monongahela South - Section 3, Segment 9

Glenshaw Bridgeshow Bridge to Sandcastle Parking Lot

Length (ft): 728

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 58,245
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.34	AC	\$ 600.00	\$ 804.00
Invasive Shrub Control	1.34	AC	\$ 1,500.00	\$ 2,010.00
Invasive Vine Control	1.34	AC	\$ 1,500.00	\$ 2,010.00
Invasive Herb Control	1.34	AC	\$ 600.00	\$ 804.00
Tree Planting	582	EA	\$ 70.00	\$ 40,740.00
Shrub Planting	65	EA	\$ 70.00	\$ 4,550.00
Herbaceous Seeding	1.34	AC	\$ 2,000.00	\$ 2,680.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 53,598.00	\$ 73.62



Three Rivers Heritage Trail, Eco Group P

Summary Report - Ecology, Group P

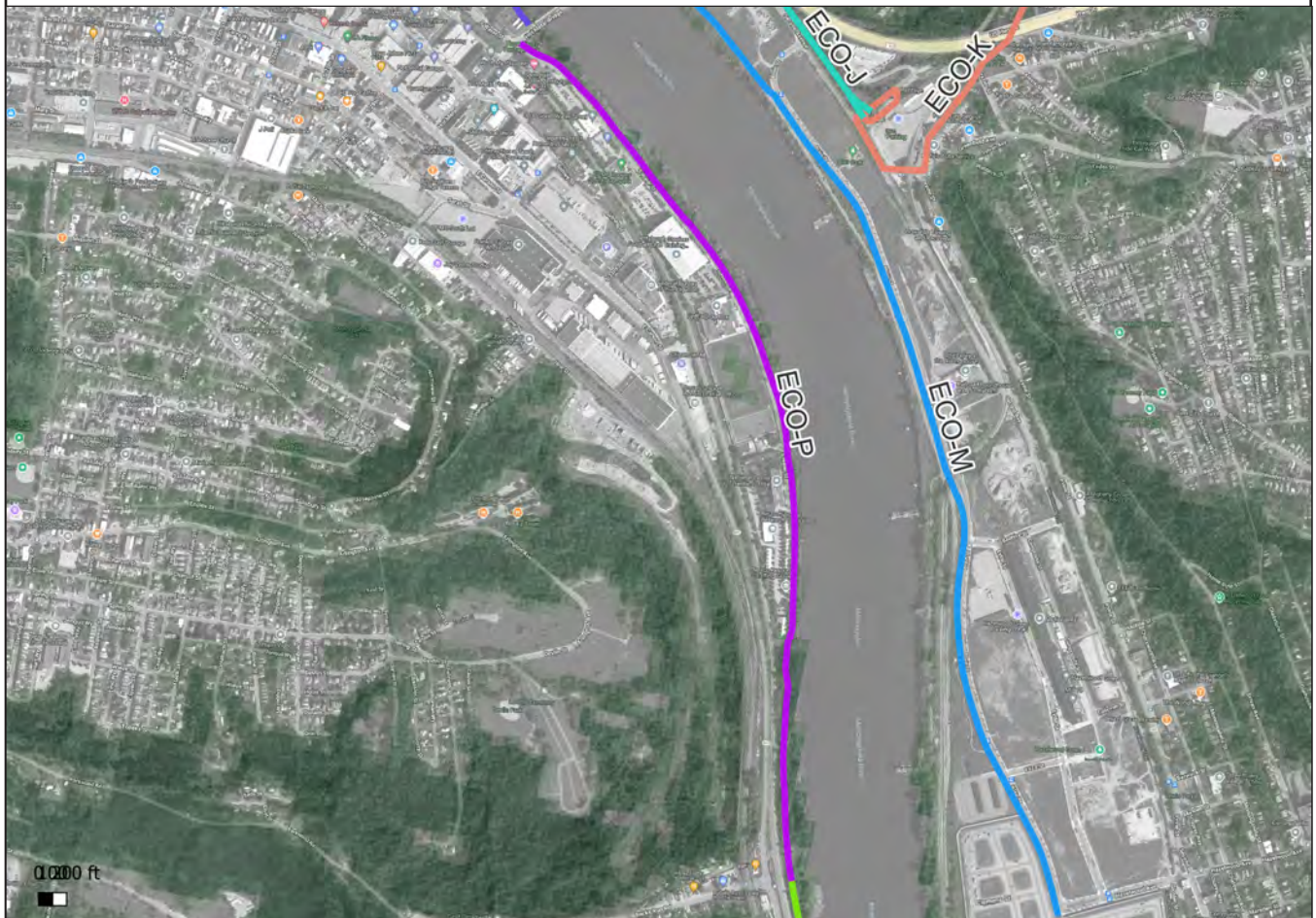
Total Trail Length (ft): 6,647

Water Street (Group P), Ecology Summary

This grouping extends from Hot Metal Street to the city limits at Becks Run Road. It is characterized by an asphalt trail in good condition, narrow vegetated strip between the trail and Water Street, and variable vegetated strip on the river side. Overall canopy density is low with high density of invasive trees (tree of heaven, white mulberry), high density of invasive shrubs (Amur honeysuckle), medium to high density of vines (porcelain berry, oriental bittersweet), and high density of invasive herbs (knotweed, mugwort).

Anticipated Cost: \$278,151.64

Cost per Linear Foot: \$41.85



Three Rivers Heritage Trail, Eco Group P

SEGMENT: Monongahela South - Section 2, Segment 15

Pitt Orthopaedic Research Labs to Trail Along E Carson St

Length (ft): 1,108

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 88,628
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.74%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.03	AC	\$ 198.00	\$ 401.94
Invasive Shrub Control	2.03	AC	\$ 495.00	\$ 1,004.85
Invasive Vine Control	2.03	AC	\$ 1,005.00	\$ 2,040.15
Invasive Herb Control	2.03	AC	\$ 0.00	\$ 0.00
Tree Planting	731	EA	\$ 70.00	\$ 51,170.00
Shrub Planting	81	EA	\$ 70.00	\$ 5,670.00
Herbaceous Seeding	1.36	AC	\$ 2,000.00	\$ 2,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 63,006.94	\$ 56.87



Three Rivers Heritage Trail, Eco Group P

SEGMENT: Monongahela South - Section 2, Segment 11

Hot Metal Bridge to UPMC Rooney Sports Complex

Length (ft): 1,108

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 88,628
- Overall Ecology Score (0-1): 0.17
- Percent Canopy (Measured): 0.17%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.03	AC	\$ 198.00	\$ 401.94
Invasive Shrub Control	2.03	AC	\$ 495.00	\$ 1,004.85
Invasive Vine Control	2.03	AC	\$ 1,005.00	\$ 2,040.15
Invasive Herb Control	2.03	AC	\$ 0.00	\$ 0.00
Tree Planting	391	EA	\$ 70.00	\$ 27,370.00
Shrub Planting	43	EA	\$ 70.00	\$ 3,010.00
Herbaceous Seeding	1.36	AC	\$ 2,000.00	\$ 2,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 36,546.94	\$ 32.99



Three Rivers Heritage Trail, Eco Group P

SEGMENT: Monongahela South - Section 2, Segment 12

UPMC Rooney Sports Complex to Steelers Training Ground

Length (ft): 1,108

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 88,628
- Overall Ecology Score (0-1): 0.31
- Percent Canopy (Measured): 0.31%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.03	AC	\$ 198.00	\$ 401.94
Invasive Shrub Control	2.03	AC	\$ 495.00	\$ 1,004.85
Invasive Vine Control	2.03	AC	\$ 1,005.00	\$ 2,040.15
Invasive Herb Control	2.03	AC	\$ 0.00	\$ 0.00
Tree Planting	479	EA	\$ 70.00	\$ 33,530.00
Shrub Planting	53	EA	\$ 70.00	\$ 3,710.00
Herbaceous Seeding	1.36	AC	\$ 2,000.00	\$ 2,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 43,406.94	\$ 39.18



Three Rivers Heritage Trail, Eco Group P

SEGMENT: Monongahela South - Section 2, Segment 13

Steelers Training Ground to End of Athletic Fields

Length (ft): 1,108

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 88,628
- Overall Ecology Score (0-1): 0.20
- Percent Canopy (Measured): 0.20%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.03	AC	\$ 198.00	\$ 401.94
Invasive Shrub Control	2.03	AC	\$ 495.00	\$ 1,004.85
Invasive Vine Control	2.03	AC	\$ 1,005.00	\$ 2,040.15
Invasive Herb Control	2.03	AC	\$ 0.00	\$ 0.00
Tree Planting	412	EA	\$ 70.00	\$ 28,840.00
Shrub Planting	46	EA	\$ 70.00	\$ 3,220.00
Herbaceous Seeding	1.36	AC	\$ 2,000.00	\$ 2,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 38,226.94	\$ 34.51



Three Rivers Heritage Trail, Eco Group P

SEGMENT: Monongahela South - Section 2, Segment 14

End of Athletic Fields to Pitt Orthopaedic Research Labs

Length (ft): 1,108

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 88,628
- Overall Ecology Score (0-1): 0.31
- Percent Canopy (Measured): 0.31%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.03	AC	\$ 198.00	\$ 401.94
Invasive Shrub Control	2.03	AC	\$ 495.00	\$ 1,004.85
Invasive Vine Control	2.03	AC	\$ 1,005.00	\$ 2,040.15
Invasive Herb Control	2.03	AC	\$ 0.00	\$ 0.00
Tree Planting	478	EA	\$ 70.00	\$ 33,460.00
Shrub Planting	53	EA	\$ 70.00	\$ 3,710.00
Herbaceous Seeding	1.36	AC	\$ 2,000.00	\$ 2,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 43,336.94	\$ 39.12



Three Rivers Heritage Trail, Eco Group P

SEGMENT: Monongahela South - Section 2, Segment 16

Trail Along E Carson St to Past Becks Run Road

Length (ft): 1,108

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 88,628
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.53%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.03	AC	\$ 198.00	\$ 401.94
Invasive Shrub Control	2.03	AC	\$ 495.00	\$ 1,004.85
Invasive Vine Control	2.03	AC	\$ 1,005.00	\$ 2,040.15
Invasive Herb Control	2.03	AC	\$ 0.00	\$ 0.00
Tree Planting	610	EA	\$ 70.00	\$ 42,700.00
Shrub Planting	68	EA	\$ 70.00	\$ 4,760.00
Herbaceous Seeding	1.36	AC	\$ 2,000.00	\$ 2,720.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 53,626.94	\$ 48.41



Three Rivers Heritage Trail, Eco Group Q

Summary Report - Ecology, Group Q

Total Trail Length (ft): 2,113

South Side Works (Group Q), Ecology Summary

The trail through South Side Works is concrete with a minimal vegetated buffer that is not maintained landscape plantings. Overall canopy density is low with medium density of invasive trees (tree of heaven), low density of invasive shrubs, medium density of vines (porcelain berry), and medium density of invasive herbs (knotweed).

Anticipated Cost: \$89,998.42

Cost per Linear Foot: \$42.59



Three Rivers Heritage Trail, Eco Group Q

SEGMENT: Monongahela South - Section 2, Segment 10

South Shore Riverfront Park Plaza to Hot Metal Bridge

Length (ft): 1,056

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 84,517
- Overall Ecology Score (0-1): 0.15
- Percent Canopy (Measured): 0.15%
- Invasive Tree Factor: 0.67
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 0.67
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.94	AC	\$ 402.00	\$ 779.88
Invasive Shrub Control	1.94	AC	\$ 1,500.00	\$ 2,910.00
Invasive Vine Control	1.94	AC	\$ 1,005.00	\$ 1,949.70
Invasive Herb Control	1.94	AC	\$ 0.00	\$ 0.00
Tree Planting	607	EA	\$ 70.00	\$ 42,490.00
Shrub Planting	94	EA	\$ 70.00	\$ 6,580.00
Herbaceous Seeding	1.94	AC	\$ 2,000.00	\$ 3,880.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 58,589.58	\$ 55.46



Three Rivers Heritage Trail, Eco Group Q

SEGMENT: Monongahela South - Section 2, Segment 9

South Side Marina to South Shore Riverfront Park Plaza

Length (ft): 1,056

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 84,517
- Overall Ecology Score (0-1): 0.13
- Percent Canopy (Measured): 0.13%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.94	AC	\$ 198.00	\$ 384.12
Invasive Shrub Control	1.94	AC	\$ 495.00	\$ 960.30
Invasive Vine Control	1.94	AC	\$ 495.00	\$ 960.30
Invasive Herb Control	1.94	AC	\$ 198.00	\$ 384.12
Tree Planting	353	EA	\$ 70.00	\$ 24,710.00
Shrub Planting	39	EA	\$ 70.00	\$ 2,730.00
Herbaceous Seeding	0.64	AC	\$ 2,000.00	\$ 1,280.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 31,408.84

Cost per Ft (\$)

\$ 29.73



Three Rivers Heritage Trail, Eco Group R

Summary Report - Ecology, Group R

Total Trail Length (ft): 7,538

South Side (Group R), Ecology Summary

This grouping consists of the trail from the Marina at South Side Works to the Color Park. The river side of the trail mainly consists of a narrow vegetated buffer defined by high retaining walls and the landward side is defined by the railroad. Overall canopy density is medium with high density of invasive trees (tree of heaven, white mulberry), high density of invasive shrubs (Amur honeysuckle), low to high density of vines (porcelain berry), and high density of invasive herbs (knotweed).

Anticipated Cost: \$326,630.84

Cost per Linear Foot: \$43.33



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 6

Trail Near 19th Street to South Side Dog Park

Length (ft): 869

Ecology Assessment and Observations

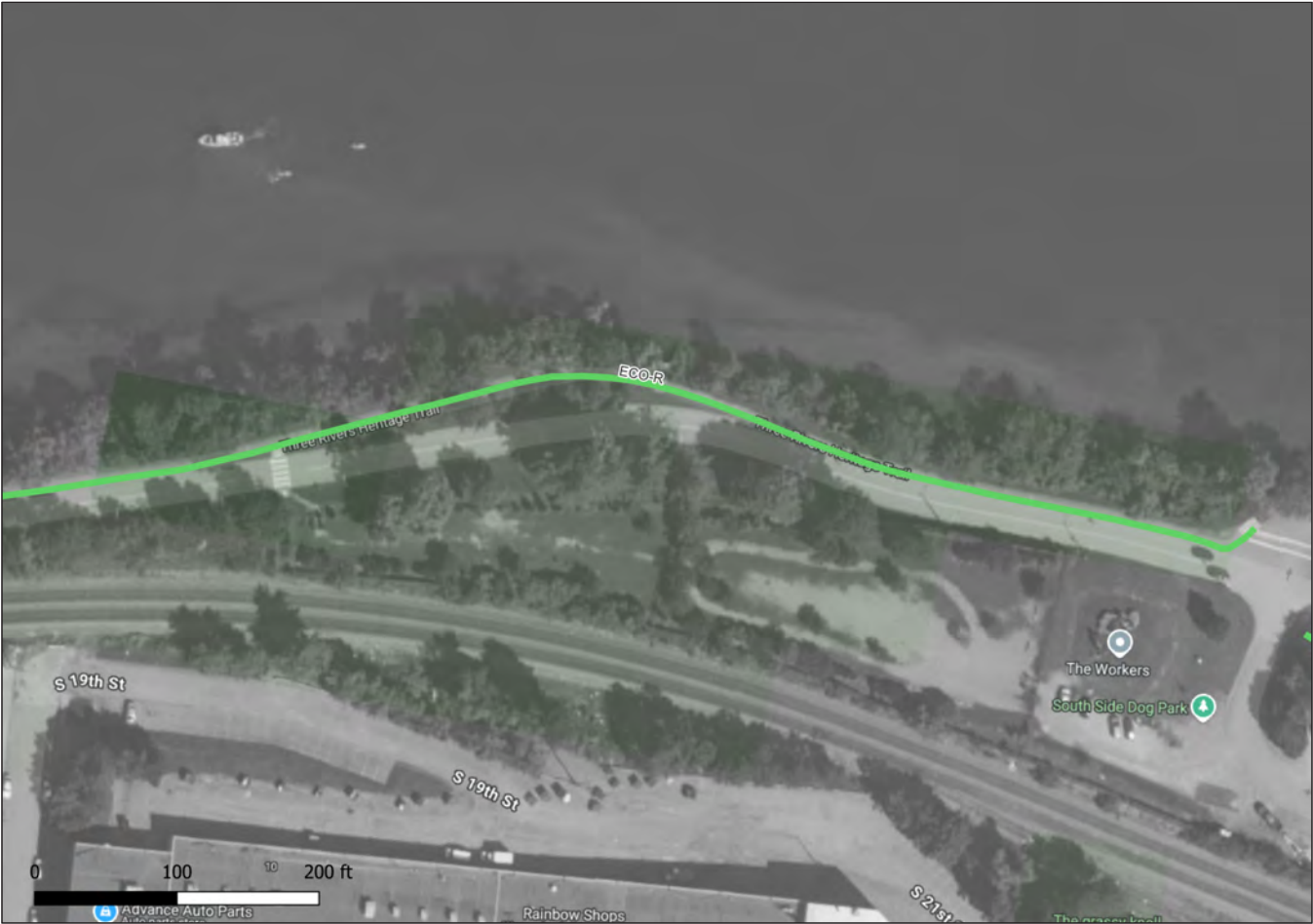
- Ecology Area, Estimated (SF): 69,530
- Overall Ecology Score (0-1): 0.21
- Percent Canopy (Measured): 0.21%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.60	AC	\$ 198.00	\$ 316.80
Invasive Shrub Control	1.60	AC	\$ 495.00	\$ 792.00
Invasive Vine Control	1.60	AC	\$ 1,500.00	\$ 2,400.00
Invasive Herb Control	1.60	AC	\$ 198.00	\$ 316.80
Tree Planting	325	EA	\$ 70.00	\$ 22,750.00
Shrub Planting	36	EA	\$ 70.00	\$ 2,520.00
Herbaceous Seeding	1.60	AC	\$ 2,000.00	\$ 3,200.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 32,295.60	\$ 37.16



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 7
South Side Dog Park to Past Birmingham Bridge
Length (ft): 895

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 71,604
- Overall Ecology Score (0-1): 0.28
- Percent Canopy (Measured): 0.28%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.64	AC	\$ 198.00	\$ 324.72
Invasive Shrub Control	1.64	AC	\$ 495.00	\$ 811.80
Invasive Vine Control	1.64	AC	\$ 1,500.00	\$ 2,460.00
Invasive Herb Control	1.64	AC	\$ 198.00	\$ 324.72
Tree Planting	373	EA	\$ 70.00	\$ 26,110.00
Shrub Planting	41	EA	\$ 70.00	\$ 2,870.00
Herbaceous Seeding	1.64	AC	\$ 2,000.00	\$ 3,280.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 36,181.24	\$ 40.42



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 8

Past Birmingham Bridge to South Side Marina

Length (ft): 1,156

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 92,493
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.36%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 0.33
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.12	AC	\$ 198.00	\$ 419.76
Invasive Shrub Control	2.12	AC	\$ 495.00	\$ 1,049.40
Invasive Vine Control	2.12	AC	\$ 495.00	\$ 1,049.40
Invasive Herb Control	2.12	AC	\$ 198.00	\$ 419.76
Tree Planting	526	EA	\$ 70.00	\$ 36,820.00
Shrub Planting	58	EA	\$ 70.00	\$ 4,060.00
Herbaceous Seeding	0.70	AC	\$ 2,000.00	\$ 1,400.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 45,218.32	\$ 39.11



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 1

4th Street Boat Launch to Color Park Near 8th Street

Length (ft): 1,084

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 86,689
- Overall Ecology Score (0-1): 0.25
- Percent Canopy (Measured): 0.25%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.99	AC	\$ 198.00	\$ 394.02
Invasive Shrub Control	1.99	AC	\$ 495.00	\$ 985.05
Invasive Vine Control	1.99	AC	\$ 1,500.00	\$ 2,985.00
Invasive Herb Control	1.99	AC	\$ 198.00	\$ 394.02
Tree Planting	434	EA	\$ 70.00	\$ 30,380.00
Shrub Planting	48	EA	\$ 70.00	\$ 3,360.00
Herbaceous Seeding	1.99	AC	\$ 2,000.00	\$ 3,980.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 42,478.09	\$ 39.20



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 2

Color Park Near 8th Street to Trail Near 11th Street

Length (ft): 900

Ecology Assessment and Observations

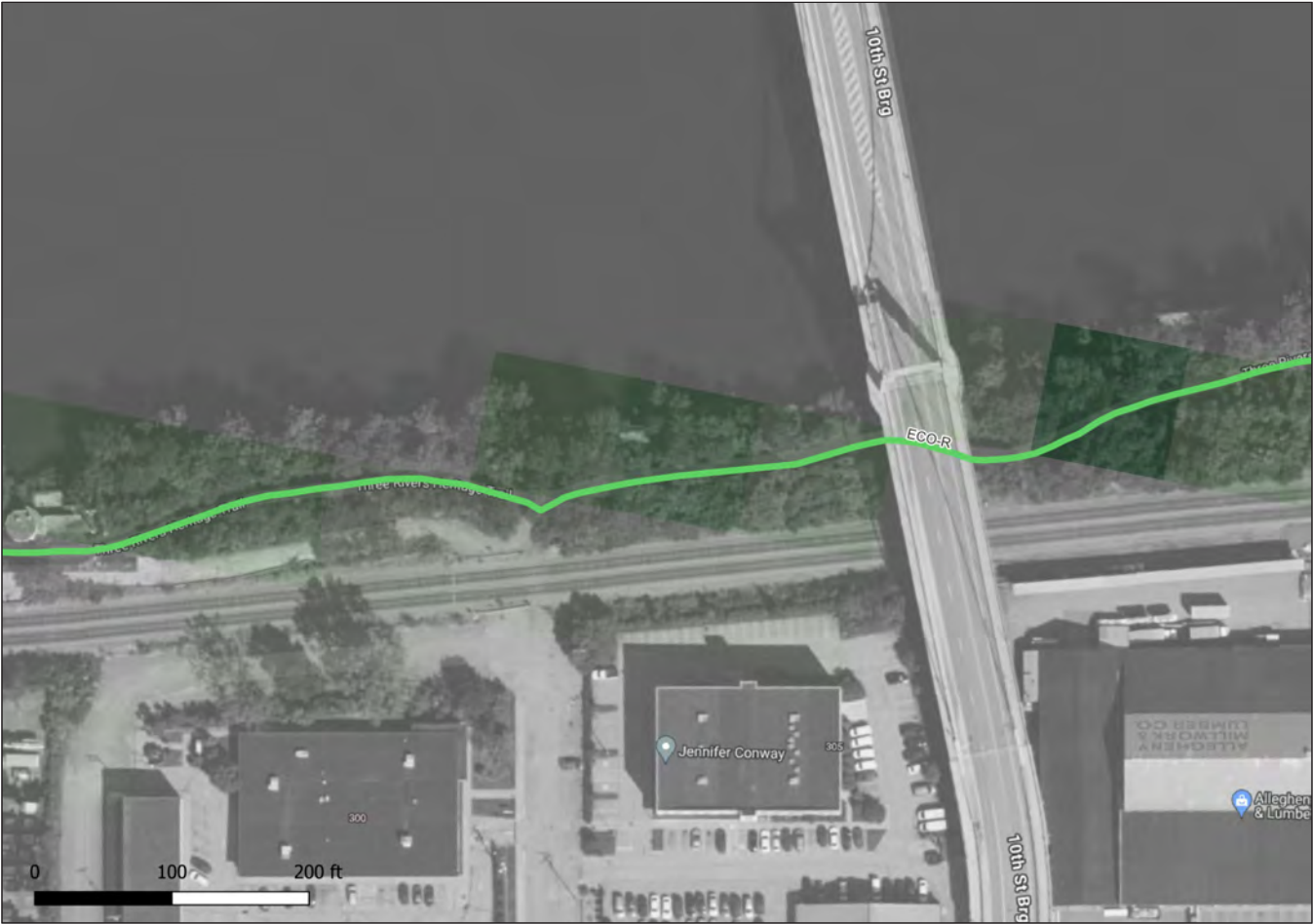
- Ecology Area, Estimated (SF): 72,004
- Overall Ecology Score (0-1): 0.29
- Percent Canopy (Measured): 0.29%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.65	AC	\$ 198.00	\$ 326.70
Invasive Shrub Control	1.65	AC	\$ 495.00	\$ 816.75
Invasive Vine Control	1.65	AC	\$ 1,500.00	\$ 2,475.00
Invasive Herb Control	1.65	AC	\$ 198.00	\$ 326.70
Tree Planting	380	EA	\$ 70.00	\$ 26,600.00
Shrub Planting	42	EA	\$ 70.00	\$ 2,940.00
Herbaceous Seeding	1.65	AC	\$ 2,000.00	\$ 3,300.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 36,785.15	\$ 40.87



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 3

Trail Near 11th Street to Trail Past 13th Street

Length (ft): 900

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 72,004
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.65%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.65	AC	\$ 198.00	\$ 326.70
Invasive Shrub Control	1.65	AC	\$ 495.00	\$ 816.75
Invasive Vine Control	1.65	AC	\$ 1,500.00	\$ 2,475.00
Invasive Herb Control	1.65	AC	\$ 198.00	\$ 326.70
Tree Planting	551	EA	\$ 70.00	\$ 38,570.00
Shrub Planting	61	EA	\$ 70.00	\$ 4,270.00
Herbaceous Seeding	1.65	AC	\$ 2,000.00	\$ 3,300.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 50,085.15	\$ 55.65



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 4

Trail Past 13th Street to Trail Near 17th Street

Length (ft): 864

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 69,156
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.58%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.59	AC	\$ 198.00	\$ 314.82
Invasive Shrub Control	1.59	AC	\$ 495.00	\$ 787.05
Invasive Vine Control	1.59	AC	\$ 1,500.00	\$ 2,385.00
Invasive Herb Control	1.59	AC	\$ 198.00	\$ 314.82
Tree Planting	496	EA	\$ 70.00	\$ 34,720.00
Shrub Planting	55	EA	\$ 70.00	\$ 3,850.00
Herbaceous Seeding	1.59	AC	\$ 2,000.00	\$ 3,180.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 45,551.69	\$ 52.69



Three Rivers Heritage Trail, Eco Group R

SEGMENT: Monongahela South - Section 2, Segment 5

Trail Near 17th Street to Trail Near 19th Street

Length (ft): 869

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 69,530
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.36%
- Invasive Tree Factor: 0.33
- Invasive Shrub Factor: 0.33
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 0.33

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.60	AC	\$ 198.00	\$ 316.80
Invasive Shrub Control	1.60	AC	\$ 495.00	\$ 792.00
Invasive Vine Control	1.60	AC	\$ 1,500.00	\$ 2,400.00
Invasive Herb Control	1.60	AC	\$ 198.00	\$ 316.80
Tree Planting	399	EA	\$ 70.00	\$ 27,930.00
Shrub Planting	44	EA	\$ 70.00	\$ 3,080.00
Herbaceous Seeding	1.60	AC	\$ 2,000.00	\$ 3,200.00

Summary by Category

Cost Group

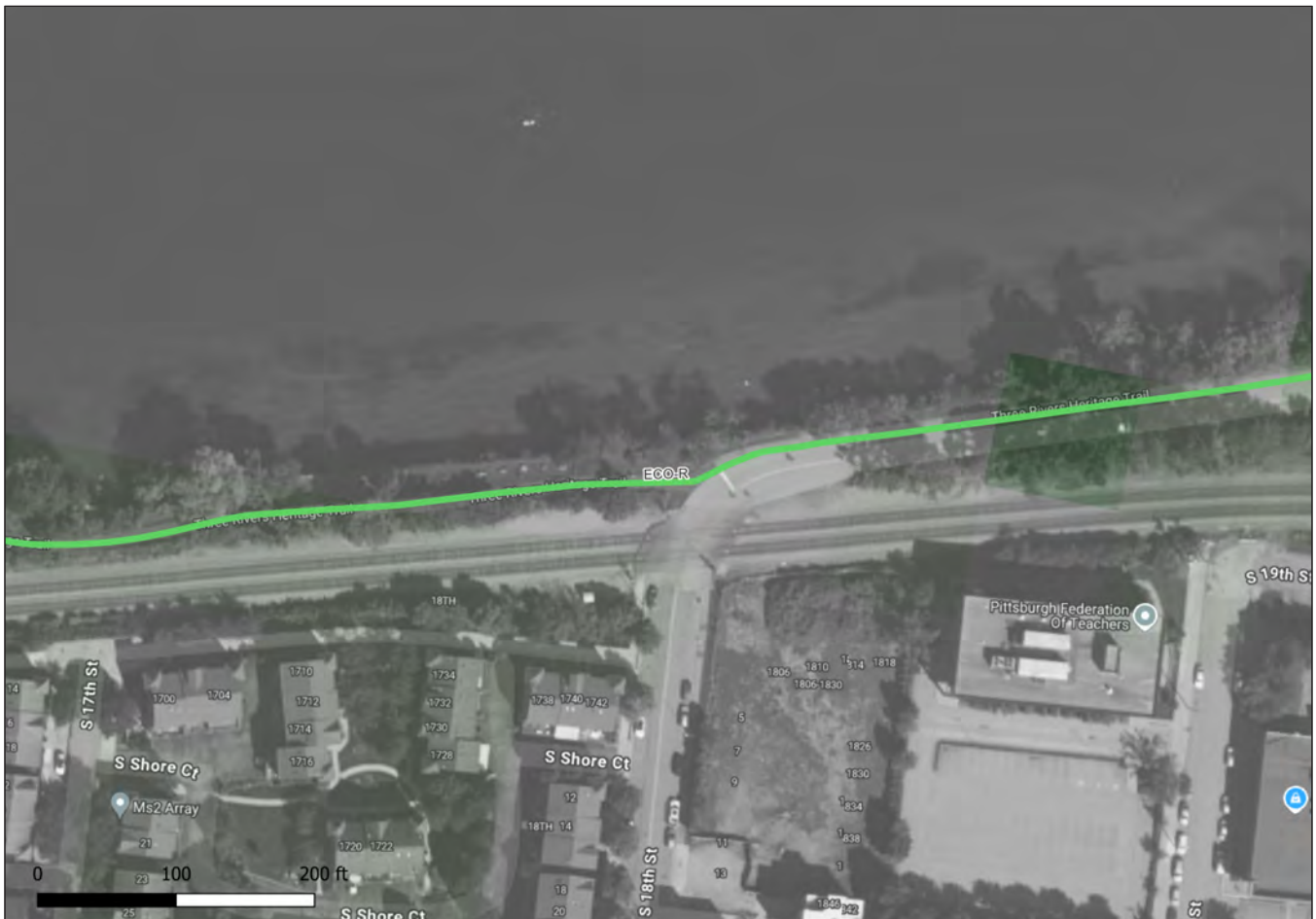
Ecology

Total Cost (\$)

\$ 38,035.60

Cost per Ft (\$)

\$ 43.76



Three Rivers Heritage Trail, Eco Group S

Summary Report - Ecology, Group S

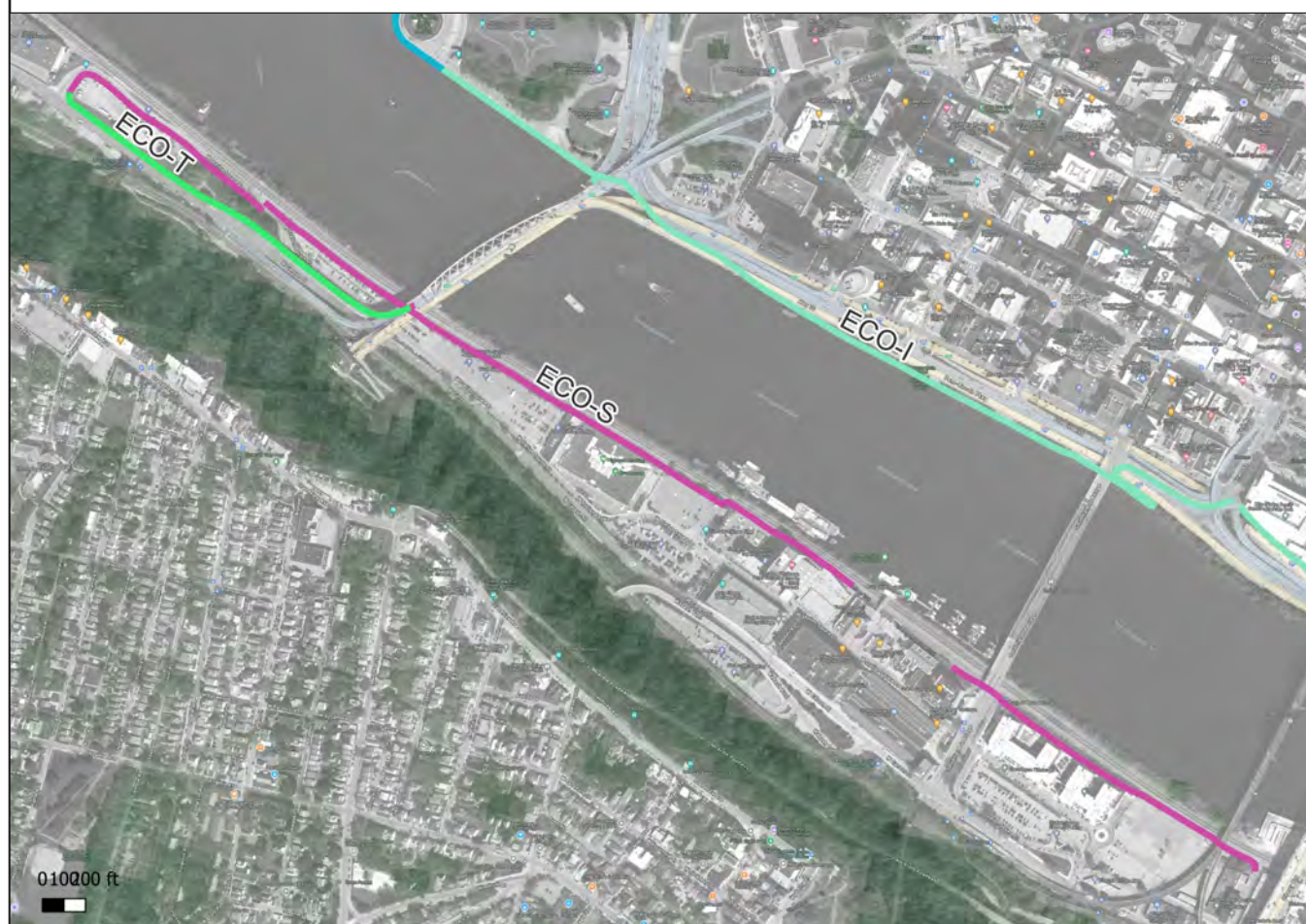
Total Trail Length (ft): 6,125

Station Square (Group S), Ecology Summary

This grouping consists of the trail of variable composition and condition without a vegetated buffer.

Anticipated Cost: \$450,830.00

Cost per Linear Foot: \$73.60



Three Rivers Heritage Trail, Eco Group S

SEGMENT: Monongahela South - Section 1, Segment 3

West Station Square Drive to Under Fort Pitt Bridge

Length (ft): 969

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 77,523
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.78	AC	\$ 600.00	\$ 1,068.00
Invasive Shrub Control	1.78	AC	\$ 1,500.00	\$ 2,670.00
Invasive Vine Control	1.78	AC	\$ 1,500.00	\$ 2,670.00
Invasive Herb Control	1.78	AC	\$ 600.00	\$ 1,068.00
Tree Planting	775	EA	\$ 70.00	\$ 54,250.00
Shrub Planting	86	EA	\$ 70.00	\$ 6,020.00
Herbaceous Seeding	1.78	AC	\$ 2,000.00	\$ 3,560.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 71,306.00

Cost per Ft (\$)

\$ 73.58



Three Rivers Heritage Trail, Eco Group S

SEGMENT: Monongahela South - Section 1, Segment 1

West Station Square Drive to Lincoln Highway

Length (ft): 1,028

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 82,215
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.89	AC	\$ 600.00	\$ 1,134.00
Invasive Shrub Control	1.89	AC	\$ 1,500.00	\$ 2,835.00
Invasive Vine Control	1.89	AC	\$ 1,500.00	\$ 2,835.00
Invasive Herb Control	1.89	AC	\$ 600.00	\$ 1,134.00
Tree Planting	822	EA	\$ 70.00	\$ 57,540.00
Shrub Planting	91	EA	\$ 70.00	\$ 6,370.00
Herbaceous Seeding	1.89	AC	\$ 2,000.00	\$ 3,780.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 75,628.00

Cost per Ft (\$)

\$ 73.59



Three Rivers Heritage Trail, Eco Group S

SEGMENT: Monongahela South - Section 1, Segment 7

Sheraton Pittsburgh Hotel, Station Sq. to Liberty Bridge

Length (ft): 1,689

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 135,117
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	3.10	AC	\$ 600.00	\$ 1,860.00
Invasive Shrub Control	3.10	AC	\$ 1,500.00	\$ 4,650.00
Invasive Vine Control	3.10	AC	\$ 1,500.00	\$ 4,650.00
Invasive Herb Control	3.10	AC	\$ 600.00	\$ 1,860.00
Tree Planting	1,351	EA	\$ 70.00	\$ 94,570.00
Shrub Planting	150	EA	\$ 70.00	\$ 10,500.00
Herbaceous Seeding	3.10	AC	\$ 2,000.00	\$ 6,200.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 124,290.00

Cost per Ft (\$)

\$ 73.59



Three Rivers Heritage Trail, Eco Group S

SEGMENT: Monongahela South - Section 1, Segment 5
Under Fort Pitt Bridge to Highmark Stadium
Length (ft): 883

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 70,656
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.62	AC	\$ 600.00	\$ 972.00
Invasive Shrub Control	1.62	AC	\$ 1,500.00	\$ 2,430.00
Invasive Vine Control	1.62	AC	\$ 1,500.00	\$ 2,430.00
Invasive Herb Control	1.62	AC	\$ 600.00	\$ 972.00
Tree Planting	707	EA	\$ 70.00	\$ 49,490.00
Shrub Planting	79	EA	\$ 70.00	\$ 5,530.00
Herbaceous Seeding	1.62	AC	\$ 2,000.00	\$ 3,240.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 65,064.00	\$ 73.67



Three Rivers Heritage Trail, Eco Group S

SEGMENT: Monongahela South - Section 1, Segment 6

Highmark Stadium to Sheraton Pittsburgh Hotel, Station Sq.

Length (ft): 1,557

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 124,526
- Overall Ecology Score (0-1): 0.33
- Percent Canopy (Measured): 0.33%
- Invasive Tree Factor: 1.00
- Invasive Shrub Factor: 1.00
- Invasive Vine Factor: 1.00
- Invasive Herbaceous Factor: 1.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	2.86	AC	\$ 600.00	\$ 1,716.00
Invasive Shrub Control	2.86	AC	\$ 1,500.00	\$ 4,290.00
Invasive Vine Control	2.86	AC	\$ 1,500.00	\$ 4,290.00
Invasive Herb Control	2.86	AC	\$ 600.00	\$ 1,716.00
Tree Planting	1,245	EA	\$ 70.00	\$ 87,150.00
Shrub Planting	138	EA	\$ 70.00	\$ 9,660.00
Herbaceous Seeding	2.86	AC	\$ 2,000.00	\$ 5,720.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 114,542.00

Cost per Ft (\$)

\$ 73.59



Three Rivers Heritage Trail, Eco Group T

Summary Report - Ecology, Group T

Total Trail Length (ft): 1,915

Duquesne Incline connector (Group T), Ecology Summary

This grouping consists of the sidewalk connecting the Duquesne incline to the Fort Pitt Bridge. There is no vegetated buffer.

Anticipated Cost: \$0.00
Cost per Linear Foot: \$0.00



Three Rivers Heritage Trail, Eco Group T

SEGMENT: Monongahela South - Section 1, Segment 2

Lincoln Highway to Past Duquesne Incline

Length (ft): 868

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 69,440
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 0.00
- Invasive Shrub Factor: 0.00
- Invasive Vine Factor: 0.00
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.59	AC	\$ 0.00	\$ 0.00
Invasive Shrub Control	1.59	AC	\$ 0.00	\$ 0.00
Invasive Vine Control	1.59	AC	\$ 0.00	\$ 0.00
Invasive Herb Control	1.59	AC	\$ 0.00	\$ 0.00
Tree Planting	0	EA	\$ 70.00	\$ 0.00
Shrub Planting	0	EA	\$ 70.00	\$ 0.00
Herbaceous Seeding	0.00	AC	\$ 2,000.00	\$ 0.00

Summary by Category

Cost Group

Ecology

Total Cost (\$)

\$ 0.00

Cost per Ft (\$)

\$ 0.00



Three Rivers Heritage Trail, Eco Group T

SEGMENT: Monongahela South - Section 1, Segment 4
Past Duquesne Incline to Fort Pitt Bridge
Length (ft): 1,047

Ecology Assessment and Observations

- Ecology Area, Estimated (SF): 83,774
- Overall Ecology Score (0-1): 0.00
- Percent Canopy (Measured): 0.00%
- Invasive Tree Factor: 0.00
- Invasive Shrub Factor: 0.00
- Invasive Vine Factor: 0.00
- Invasive Herbaceous Factor: 0.00

Cost Estimate for Ecology

Item	Quantity	Unit	Unit Cost (\$)	Total Cost (\$)
Invasive Tree Control	1.92	AC	\$ 0.00	\$ 0.00
Invasive Shrub Control	1.92	AC	\$ 0.00	\$ 0.00
Invasive Vine Control	1.92	AC	\$ 0.00	\$ 0.00
Invasive Herb Control	1.92	AC	\$ 0.00	\$ 0.00
Tree Planting	0	EA	\$ 70.00	\$ 0.00
Shrub Planting	0	EA	\$ 70.00	\$ 0.00
Herbaceous Seeding	0.00	AC	\$ 2,000.00	\$ 0.00

Summary by Category

Cost Group	Total Cost (\$)	Cost per Ft (\$)
Ecology	\$ 0.00	\$ 0.00

