

Use Attainability Analysis

1 Water Body Name	Flood Creek
2 Segment Description	Confluence with Beaver Creek to confluence with unnamed tributary
3 Segment Length (mi)	18.2
4 Drainage Area (sq. mi.)	68.5
5 Segment Start Latitude, Longitude (DD)	42.99938, -92.80540
6 Segment End Latitude, Longitude (DD)	43.13762, -92.92768
7 Route of Flow (Next Downstream Adopted Designated Use)	Flood Creek (A3, BWW2, proposed to A2, BWW2, proposed to A2, BWW2, existing)
8 NPDES Facility and Permit Number (If Applicable)	Rudd, City of STP (3440001)
9 Sample Site ID(s)	1345-1, 1345-2, 1345-3
10 Segment County Name(s)	Floyd
11 Field Work Date(s)	8/24/2017

12 Aquatic Life Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Aquatic Life Use	BWW2
40 CFR 131.10(g)(2) (Flow)	The natural low flow conditions of the stream segment are insufficient to create the habitat necessary to support a viable community of game fish. A lack of age ranges and diversity of game fish species indicates a non-reproducing population (see Site Observations Table). A BWW1 designation requires multiple species and age ranges to be viable. Therefore, the highest attainable aquatic life use for this stream segment is BWW2.
40 CFR 131.10(g)(5) (Physical Conditions)	Physical conditions related to the natural features of the water body are insufficient to support a viable community of game fish. A lack of age ranges and diversity of game fish species indicates a non-reproducing population (see Site Observations Table). A BWW1 designation requires multiple species and age ranges to be viable. Therefore, the highest attainable aquatic life use for this stream segment is BWW2.

13 Recreational Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Recreational Use	A3 (Confluence with unnamed tributary to confluence with unnamed tributary)
40 CFR 131.10(g)(2) (Flow)	The natural low flow conditions and water levels of the stream segment prevent an A1 recreational use (see Site Observations Table). An A1 designation requires the ability for full body immersion. However, this stream segment is in close proximity to a population center/park. Therefore, the A3 recreational use is recommended.

Recommended Highest Attainable Use: Recreational Use	A2 (Confluence with Beaver Creek to confluence with unnamed tributary)
40 CFR 131.10(g)(2) (Flow)	The natural low flow conditions and water levels of the stream segment prevent the attainment of an A1 recreational use (see Site Observations Table). An A1 designation requires the ability for full body immersion. Therefore, the highest attainable recreational use is A2.

14 Flow

Field Work Date	Description
8/24/2017	USGS stream gage 05462000 data for the area indicated stream flows were normal at the time of assessment.

Use Attainability Analysis - Data

Site Observations

Use	Site parameter	Site ID #1345-1
AL/R	15 Latitude, Longitude (DD)	43.13348, -92.92551
AL/R	16 Average Depth (in)	9.5
AL/R	17 Maximum Depth (in)	27
AL/R	18 Stream Width (ft)	36.5
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Bigmouth shiner: 1 Blacknose dace: 6 Central stoneroller: 3 Common shiner: 9 Creek chub: 12 Fathead minnow: 1 Green sunfish: 5 Johnny darter: 5 White sucker: 9
	21 Game Fish Present and Counts (Species (Size Range): Number)	None
	22 Stream Habitat (See also: #29 Site Photos)	Overhanging vegetation, some woody debris, lots of attached algae, some shading.
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	No
	24 Evidence of Use by Children? (Yes*/No)	Yes
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	Yes
AL/R	26 Additional Description	Some trash, neighbor interview survey states kids fish here, some houses adjacent to stream.

Use	Site parameter	Site ID #1345-2
AL/R	15 Latitude, Longitude (DD)	43.08547, -92.88404
AL/R	16 Average Depth (in)	6.5
AL/R	17 Maximum Depth (in)	25
AL/R	18 Stream Width (ft)	17
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Not sampled
	21 Game Fish Present and Counts (Species (Size Range): Number)	Not sampled
	22 Stream Habitat (See also: #29 Site Photos)	N/A
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	No
	24 Evidence of Use by Children? (Yes*/No)	No
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	No

Use	Site parameter	Site ID #1345-2
AL/R	26 Additional Description	Electric fence across creek 100 feet upstream, cattle in pasture northwest of bridge, some houses adjacent to stream.

Use	Site parameter	Site ID #1345-3
AL/R	15 Latitude, Longitude (DD)	43.02356, -92.82186
AL/R	16 Average Depth (in)	13.5
AL/R	17 Maximum Depth (in)	24
AL/R	18 Stream Width (ft)	25
AL/R	19 Pools Observed?	Yes
AL only	20 Non-Game Fish Present and Counts (Species: Number)	Blacknose dace: 4 Bluntnose minnow: 2 Brook stickleback: 4 Central stoneroller: 19 Common shiner: 5 Creek chub: 26 Fathead minnow: 3 Golden redhorse: 1 Northern hog sucker: 1 Sand shiner: 2 Southern redbelly dace: 18 White sucker: 25
	21 Game Fish Present and Counts (Species (Size Range): Number)	Largemouth bass: 12 (size not specified)
	22 Stream Habitat (See also: #29 Site Photos)	20 by 100 foot pool created by log jam in lower stretch, submerged vegetation, cutbanks, some shading with woody vegetation.
R only	23 Evidence of Use for Primary Contact Recreation? (Yes*/No)	No
	24 Evidence of Use by Children? (Yes*/No)	No
	25 Evidence of Use for Secondary Contact Recreation? (Yes*/No)	Yes
AL/R	26 Additional Description	Jig with attached fish in water, adjacent to Happy Acres Floyd County Recreational Area, some houses adjacent to stream.

AL = Aquatic Life

R = Recreation

*If yes, elaborate.

27 Supplemental Data

N/A

28 Map of Segment, Outfall, and Site(s)



29 Site Photos



Figure 1. 1345-1 Recreational use assessment upstream looking downstream.



Figure 2. 1345-1 Recreational use assessment downstream looking downstream.



Figure 3. 1345-1 Start of aquatic assessment view upstream.



Figure 4. 1345-1 Start of aquatic assessment view downstream.



Figure 5. 1345-1 End of aquatic assessment view upstream.



Figure 6. 1345-1 End of aquatic assessment view downstream.



Figure 7. 1345-2 Recreational use assessment midpoint looking upstream.



Figure 8. 1345-2 Recreational use assessment midpoint looking downstream.



Figure 9. 1345-2 Recreational use assessment upstream looking upstream.



Figure 10. 1345-2 Recreational use assessment upstream looking downstream.



Figure 11. 1345-2 Recreational use assessment downstream looking upstream.



Figure 12. 1345-2 Recreational use assessment downstream looking downstream.



Figure 13. 1345-3 Recreational use assessment upstream looking upstream.



Figure 14. 1345-3 Recreational use assessment upstream looking downstream.



Figure 15. 1345-3 Recreational use assessment downstream looking upstream.



Figure 16. 1345-3 Recreational use assessment downstream looking upstream view 2.



Figure 17. 1345-3 Recreational use assessment downstream looking downstream.



Figure 18. 1345-3 Recreational use assessment downstream looking downstream view 2.



Figure 19. 1345-3 End of aquatic use assessment view upstream.



Figure 20. 1345-3 End of aquatic use assessment view downstream.



Figure 21. 1345-3 Fish with hook.



Figure 22. 1345-3 Public hunting sign in water.



Figure 23. 1345-3 Golden redhorse.