

Use Attainability Analysis

1 Water Body Name	Unnamed Tributary to Walnut Creek
2 Segment Description	Mouth to headwaters
3 Segment Length (mi)	0.70
4 Drainage Area (sq. mi.)	0.2
5 Segment Start Latitude, Longitude (DD)	40.77989, -92.92491
6 Segment End Latitude, Longitude (DD)	40.77378, -92.92857
7 Route of Flow (Next Downstream Adopted Designated Use)	Unnamed Tributary (general use, proposed) to Walnut Creek (A1 presumed, BWW2, existing to A1, BWW2, existing)
8 NPDES Facility and Permit Number (If Applicable)	Mystic, City of STP (0477001)
9 Sample Site ID(s)	1302-1
10 Segment County Name(s)	Appanoose
11 Field Work Date(s)	9/7/2016

12 Aquatic Life Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Aquatic Life Use	General Use
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 community of fish (see Site Observations Table). A BWW1 designation requires multiple species and age ranges of game fish to be viable. A BWW2 designation requires permanent flow. A BWW3 designation requires intermittent flow with perennial pools. This segment has none of those. Therefore, the highest attainable use for this stream segment is general use. As this stream segment was not identified as perennial by the U.S. Geological Survey 1:100,000 DLG Hydrography Data Map (published July 1993) as described in 567 IAC 61.3(1)“b”, it does not require rulemaking.
40 CFR 131.10(g)(5) (Physical Conditions)	Physical conditions related to the natural features of the water body are insufficient to support a community of fish (see Site Observations Table). A BWW1 designation requires multiple species and age ranges of game fish to be viable. A BWW2 designation requires enough habitat beyond non-flowing perennial pools to support an aquatic community. A BWW3 designation requires habitat in perennial pools to support an aquatic community. This segment has none of those. Therefore, the highest attainable use for this stream segment is general use. As this stream segment was not identified as perennial by the U.S. Geological Survey 1:100,000 DLG Hydrography Data Map (published July 1993) as described in 567 IAC 61.3(1)“b”, it does not require rulemaking.

13 Recreational Use Attainability Analysis - Conclusion

Recommended Highest Attainable Use: Recreational Use	General Use
40 CFR 131.10(g)(2) (Flow)	The natural low flow conditions and water levels of the stream segment prevent the attainment of any recreational use (see Site Observations Table). A1, A2, and A3 designations require the ability to recreate in and on the water. This segment has no water. Therefore, the highest attainable use for this segment is general use. As this stream segment was not identified as perennial by the U.S. Geological Survey 1:100,000

	DLG Hydrography Data Map (published July 1993) as described in 567 IAC 61.3(1)“b”, it does not require rulemaking.
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14 Flow

Field Work Date	Description
9/7/2016	<p>USGS stream gage 06904010 data for the area indicated stream flows were below normal at the time of assessment. However, the following day (9/8/2016) had normal flows due to rainfall in the area. Because this water body is a smaller tributary that reacts more quickly to rainfall than larger water bodies downstream (where this gage is located) do, and because it rained on the day of field work (https://mesonet.agron.iastate.edu/timemachine/?product=45&timestamp=201609070000), the flow for this segment is most likely within normal range at the time of field work.</p>

Use Attainability Analysis - Data

Site Observations

Use	Site parameter	Site ID #1302-1
AL/R	15 Latitude, Longitude (DD)	40.77485, -92.92914
AL/R	16 Average Depth (in)	Not sampled (dry)
AL/R	17 Maximum Depth (in)	Not sampled (dry)
AL/R	18 Stream Width (ft)	Not sampled (dry)
AL/R	19 Pools Observed?	Not sampled (dry)
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)	No discharge from outfall, dry stream bed.
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
AL/R	26 Additional Description	None.

AL = Aquatic Life

R = Recreation

*If yes, elaborate.

27 Supplemental Data

N/A

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





Figure 1. 1302-1 Outfall view 1.



Figure 2. 1302-1 Outfall view 2.



Figure 3. 1302-1 Grassy waterway downstream of outfall.



Figure 4. 1302-1 Dry creek upstream.



Figure 5. 1302-1 Dry creek downstream.