

Use Attainability Analysis

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|---|---|
| 1 Water Body Name | Bee Branch |
| 2 Segment Description | Mouth to flood control structure |
| 3 Segment Length (mi) | 0.68 |
| 4 Drainage Area (sq. mi.) | 5.85 |
| 5 Segment Start Latitude, Longitude (DD) | 42.50982, -90.65357 |
| 6 Segment End Latitude, Longitude (DD) | 42.51212, -90.66325 |
| 7 Route of Flow (Next Downstream Adopted Designated Use) | Bee Branch (A1, BWW1, HH, proposed) to Mississippi River (A1, BWW1, HH) |
| 8 NPDES Facilities and Permit Numbers (If Applicable) | Audubon Elementary School (3126501), Alliant Energy Data Center (3126120), Dubuque Residential Facility (3100804), Interstate Building, LLLP (3126123), Loras College (3126503), Prescott Elementary School (3126502), 1840, LLC (3126122), Pinebox, LLLP (3126802) |
| 9 Sample Site ID(s) | 1, 2 |
| 10 Segment County Name(s) | Dubuque |
| 11 Field Work Date(s) | 6/25/2014 (fish assessment), 9/24/2025 |

12 Aquatic Life Use Attainability Analysis - Conclusion

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| Recommended Highest Attainable Use: Aquatic Life Use | BWW1 |
| Physical conditions and flow are sufficient to support a viable community of game fish. Diverse species and age ranges are present, indicating a reproducing population (see Site Observations Table). Therefore, the highest attainable aquatic life use for this stream segment is BWW1. | |

13 Recreational Use Attainability Analysis - Conclusion

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| Recommended Highest Attainable Use: Recreational Use | A1 |
| Water levels and flow are sufficient to support full body immersion (see Site Observations Table). Therefore, the highest attainable recreational use for this stream segment is A1. | |

Additional Recommended Designation(s) - Conclusion

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| Recommended Highest Attainable Use: Human Health | HH |
| As this stream segment is receiving a BWW1 designation, an additional Human Health designation shall also be applied. | |

14 Flow

| Field Work Date | Description |
|-----------------|---|
| 6/25/2014 | USGS stream gage 05414820 data for the area indicated stream flows were normal at the time of assessment. |
| 9/24/2025 | USGS stream gage 05414820 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 #1 |
|---------|--|---|
| AL/R | 15 Latitude, Longitude (DD) | 42.51027, -90.65700 |
| AL/R | 16 Average Depth (in) | Too deep to assess |
| AL/R | 17 Maximum Depth (in) | Too deep to assess |
| AL/R | 18 Stream Width (ft) | 800 |
| 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) | Large pool |
| R only | 23 Evidence of Use for Primary Contact Recreation? (Yes*/No) | Yes (signs indicate where you can and cannot swim/wade) |
| | 24 Evidence of Use by Children? (Yes*/No) | Yes (signs indicate where you can and cannot swim/wade) |
| | 25 Evidence of Use for Secondary Contact Recreation? (Yes*/No) | Yes (signs indicate where you can and cannot swim/wade) |
| AL/R | 26 Additional Description | Fishing pier |

| Use | Site parameter | Site ID #2 |
|---------|---|---|
| AL/R | 15 Latitude, Longitude (DD) | 42.51187, -90.66274 |
| AL/R | 16 Average Depth (in) | Too deep to assess |
| AL/R | 17 Maximum Depth (in) | Too deep to assess |
| AL/R | 18 Stream Width (ft) | 125 |
| AL/R | 19 Pools Observed? | Yes |
| AL only | 20 Non-Game Fish Present and Counts (Species: Number) | Common Shiner: Identified as present Emerald Shiner: Identified as present Gizzard Shad: Identified as present Golden Shiner: Identified as present Green Sunfish: 45 Orangespotted sunfish: 1 Pumpkinseed: 1 Spottail Shinner: Identified as present White Sucker: 3 |

| Use | Site parameter | Site ID #2 |
|---------------|---|--|
| | 21 Game Fish Present and Counts (Species (Size Range): Number) | Black Bullhead: 3 Bluegill: 116 <ul style="list-style-type: none"> ● 2-3": 28 ● 4-5": 71 ● 6-7": 17 Common Carp: 4 Largemouth Bass: 11 <ul style="list-style-type: none"> ● 7-9": 4 ● 10-12": 4 ● 12-15": 3 Northern Pike: 3 <ul style="list-style-type: none"> ● 21-25": 3 Yellow Perch: 7 <ul style="list-style-type: none"> ● 3-4": 1 ● 5-6": 3 ● 7-8": 3 |
| | 22 Stream Habitat (See also: #29 Site Photos) | Large pool |
| R only | 23 Evidence of Use for Primary Contact Recreation? (Yes*/No) | Yes (signs indicate where you can and cannot swim/wade) |
| | 24 Evidence of Use by Children? (Yes*/No) | Yes (signs indicate where you can and cannot swim/wade) |
| | 25 Evidence of Use for Secondary Contact Recreation? (Yes*/No) | Yes (signs indicate where you can and cannot swim/wade) |
| AL/R | 26 Additional Description | Flood control structure |

AL = Aquatic Life

R = Recreation

*If yes, elaborate.

27 Supplemental Data

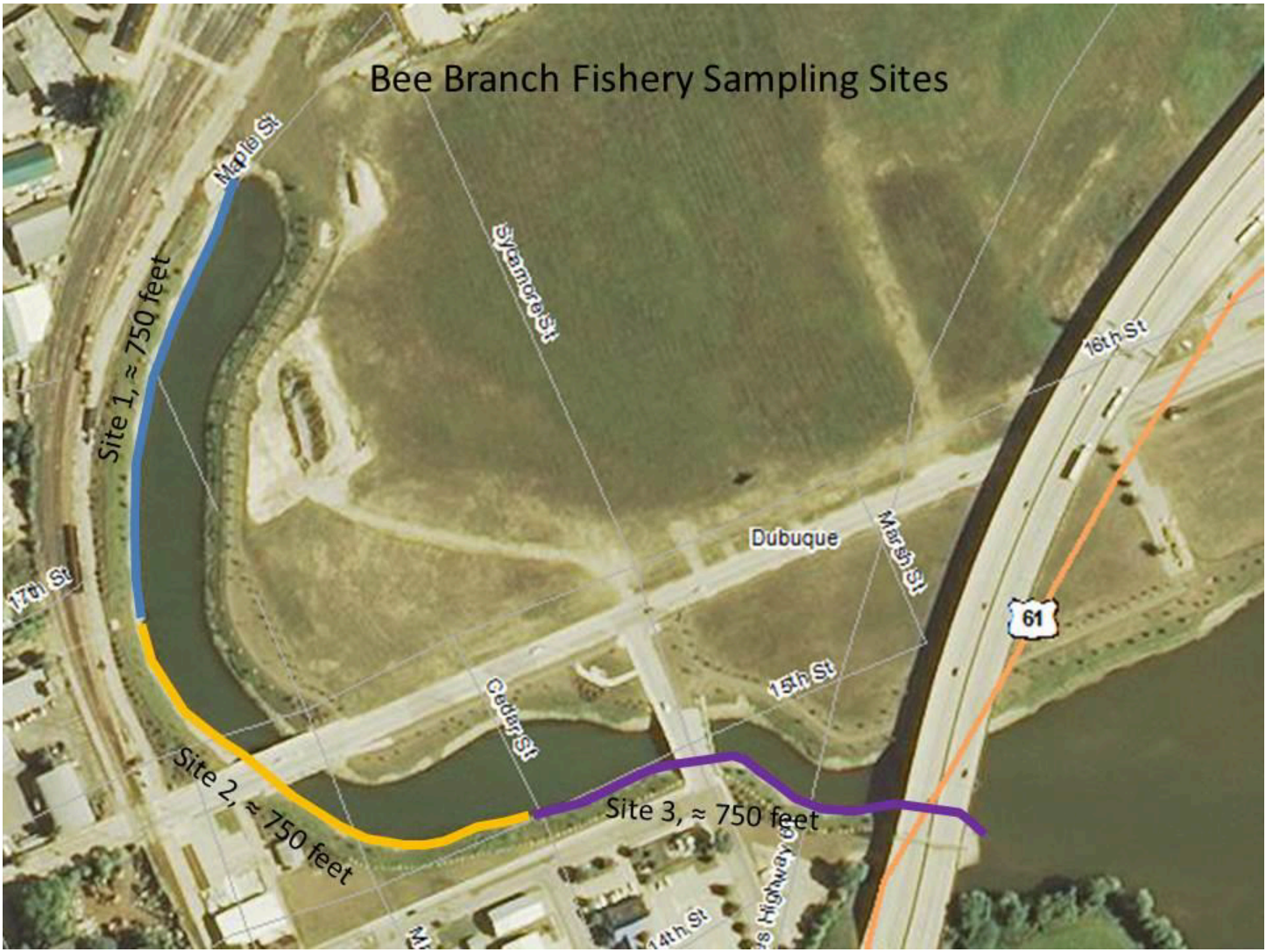
The pool is approximately 28 acres. The furthest downstream point of the segment is a flood control structure that was inaccessible at the time due to construction.

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



Map of area being designated.

Bee Branch Fishery Sampling Sites



Map of area sampled for fish.

29 Site Photos



Figure 1. Site #1 looking upstream.



Figure 2. Site #1 looking downstream.



Figure 3. Site #2 looking upstream at the flood control structure.



Figure 4. No swimming or wading sign located upstream of the pool being designated.