

Use Attainability Analysis

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|---|---|
| 1 Water Body Name | Unnamed Tributary to South Skunk River |
| 2 Segment Description | Mouth to Wapello RWA WTP outfall |
| 3 Segment Length (mi) | 0.46 |
| 4 Drainage Area (sq. mi.) | 0.21 |
| 5 Segment Start Latitude, Longitude (DD) | 41.26416, -92.34416 |
| 6 Segment End Latitude, Longitude (DD) | 41.27021, -92.34645 |
| 7 Route of Flow (Next Downstream Adopted Designated Use) | Unnamed Tributary (general use, proposed) to South Skunk River (A1, BWW1, HH) |
| 8 NPDES Facility and Permit Number (If Applicable) | Wapello RWA Water Treatment Plant (5400800) |
| 9 Sample Site ID(s) | 1277-1 |
| 10 Segment County Name(s) | Keokuk |
| 11 Field Work Date(s) | 7/29/2016 |

12 Aquatic Life Use Attainability Analysis - Conclusion

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| 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

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| 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 |

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| | 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 |
|-----------------|--|
| 7/29/2016 | USGS stream gage 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 #1277-1 |
|---------|--|---|
| AL/R | 15 Latitude, Longitude (DD) | 41.27021, -92.34645 |
| AL/R | 16 Average Depth (in) | Not measured |
| AL/R | 17 Maximum Depth (in) | Not measured |
| AL/R | 18 Stream Width (ft) | Not measured |
| AL/R | 19 Pools Observed? | No |
| 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) | Very little water. |
| 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 | Outfall location. Discharges to the drainage ditch. |

AL = Aquatic Life

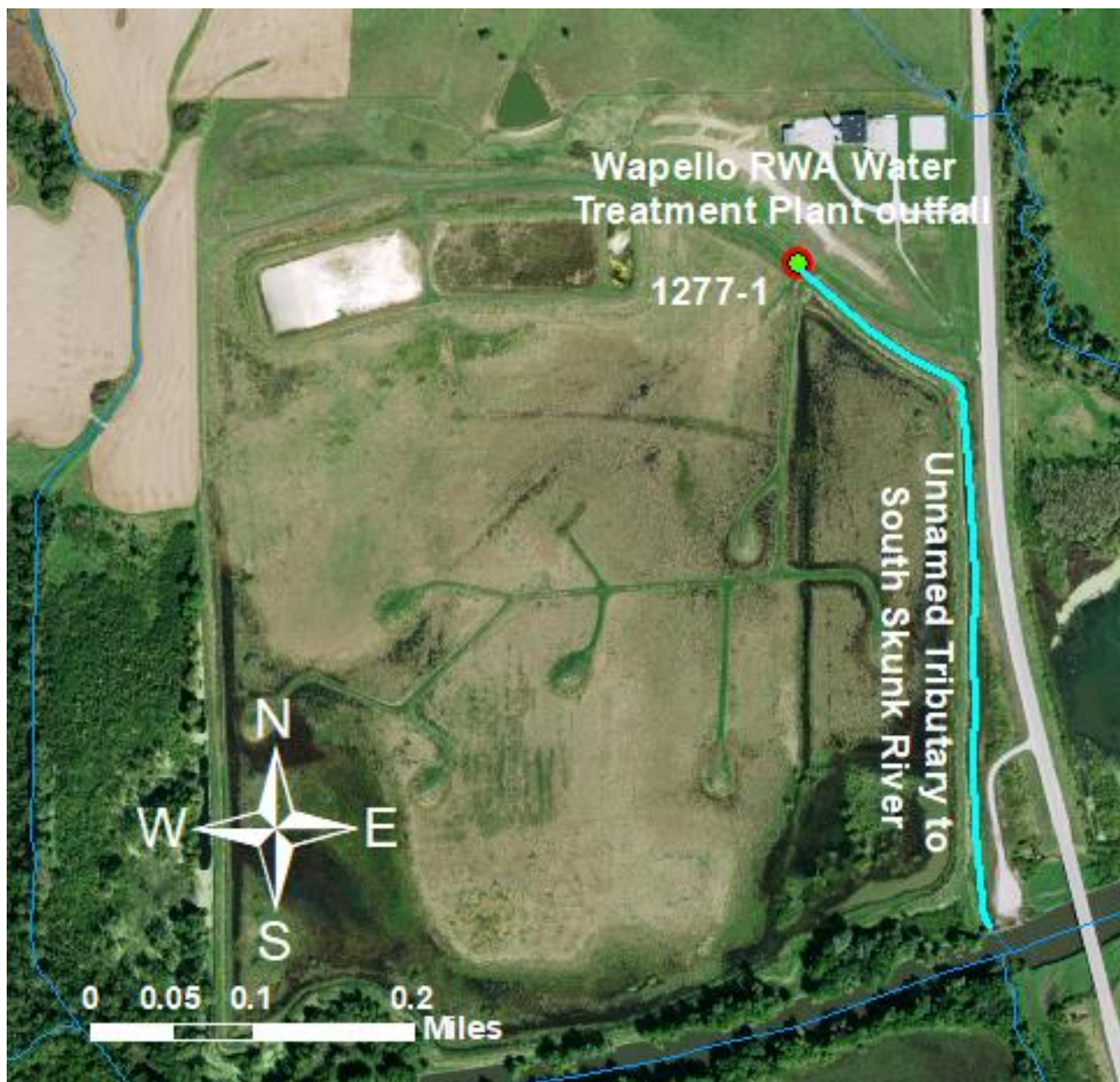
R = Recreation

*If yes, elaborate.

27 Supplemental Data

N/A

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



29 Site Photos



Figure 1. 1277-1 Outfall.



Figure 2. 1277-1 Receiving ditch flowing south.



Figure 3. 1277-1 Downstream of outfall.