

Stewardship for Buckwater

Lead Steward: Neil

2022-08-31

Boundary Issues

| Year | Issue | Issue_Desc | Treated | Treatment | Resolved |
|------|-------|------------|---------|-----------|----------|
|------|-------|------------|---------|-----------|----------|

Channel Issues

| | Year | Subtype | Issue | Issue_Desc | Treated | Treatment | Resolved |
|----|------|---------------------------|----------------|--|---------|-------------|----------|
| 18 | 2019 | Failed Structure | | | | | No |
| 19 | 2019 | Failed Structure | Piping | Log sill. Piping readily on right side | | | No |
| 20 | 2021 | Needs Livestakes | | Needs live stakes. Finish polyline | | | No |
| 21 | 2022 | Channel Stability/Erosion | Erosion_Scours | Erosion | Yes | Live stakes | Yes |
| 22 | 2022 | Channel Stability/Erosion | | Sills require fixing | Yes | Fixed sills | Yes |
| 23 | 2022 | Channel Stability/Erosion | | Sills require fixing | Yes | | Yes |

Vegetation Issues

| Year | Issue | Issue_Desc | Percent_Change | Treated | Treatment | Treat_Notes | Resolved |
|------|------------------|--|----------------|---------|--|-------------|----------|
| 2020 | | replant 250 stems/acre- 25 new stems. treat fescue | | Yes | tree planting | | Yes |
| 2020 | | replant 250 stems/acre- 25 new stems. treat fescue | | Yes | ring sprays | | Yes |
| 2020 | Low Stem Density | Needs trees. Dense tall fescue needs ring sprays | 26-50% | Yes | Planted 110 new bare roots and 1-gallons | | Yes |
| 2020 | Low Stem Density | Needs trees. Dense tall fescue needs ring sprays | 26-50% | Yes | ring sprays | | Yes |

| Year | Issue | Issue_Desc | Percent | Cover | Treat | Treat_Veg | Treat_Meth | Method_1 |
|------|---|---|---------|-------|---|-----------|------------|----------|
| 2020 | Low Stem Vigor/Height & Density | Replant. Needs 150 stems per acre. Needs ring sprays. One round of ring sprays was previously completed in early spring 2020 | 26-50% | Yes | tree planting | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | Replant. Needs 150 stems per acre. Needs ring sprays. One round of ring sprays was previously completed in early spring 2020 | 26-50% | Yes | ring sprays | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | Replant. Needs 150 stems per acre. Needs ring sprays. One round of ring sprays was previously completed in early spring 2020 | 26-50% | Yes | Ring sprays | | Yes | |
| 2020 | Low Stem Density | replant 250 stems/acre- 75 new stems. treat fescue | | Yes | tree planting | | Yes | |
| 2020 | Low Stem Density | replant 250 stems/acre- 75 new stems. treat fescue | | Yes | ring sprays | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | Replant 200 stems/acre- 640 stems. dense tall fescue needs ring sprays | 51-75% | Yes | | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | Replant 200 stems/acre- 640 stems. dense tall fescue needs ring sprays | 51-75% | Yes | Ring sprays. All N half. Some S half | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | Replant 200 stems/acre- 640 stems. dense tall fescue needs ring sprays | 51-75% | Yes | Planted 640 stems. Ring sprays | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | replant 175 stems/acre- 298 new stems. Need ring sprays | | Yes | tree planting | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | replant 175 stems/acre- 263 stems . treat dense tall fescue | | Yes | planted 263 new stems | | Yes | |
| 2020 | Low Stem Vigor/Height & Density | replant 175 stems/acre- 263 stems . treat dense tall fescue | | Yes | ring sprays | | Yes | |

| Year | Issue | Issue_Desc | Percent | Cleared | Treated | Treat_Meth | Method_1 |
|------|---------------------------------|---|---------|---------|--|------------|----------|
| 2020 | | replant 250 stems/acre- 25 new stems. treat fescue | | Yes | planted 25 stems | | Yes |
| 2020 | | replant 250 stems/acre- 25 new stems. treat fescue | | Yes | ring sprays | | Yes |
| 2020 | Low Stem Vigor/Height & Density | replant 150 stems/acre- 45 new stems. low groundcover. Few trees | | Yes | planted 45 new stems | | Yes |
| 2020 | Low Stem Vigor/Height & Density | Need replant- 150 stems/acre. 105 new stems. old pond- take soil sample | | Yes | planted 105 new stems | | Yes |
| 2020 | Low Stem Vigor/Height & Density | replant 175 stems/acre- 420 new stems. Poor soils | | Yes | tree planting and soil amendments on every stem | | Yes |
| 2020 | Low Stem Vigor/Height & Density | replant 175 stems/acre- 420 new stems. Poor soils | | Yes | soil amendments | | Yes |
| 2020 | | Old field succession dominating area. Low planted stem density persists after tree plantings in early 2021 | | Yes | 40 new bare root and 1-gallon containers planted- 300 stem/acre rate | | No |
| 2020 | | Old field succession dominating area. Low planted stem density persists after tree plantings in early 2021 | | Yes | ring sprays- 2.5% glyphosate | | No |
| 2020 | | Old field succession dominating area. Low planted stem density persists after tree plantings in early 2021 | | Yes | Cleared blackberry heavily competing with trees | | No |
| 2020 | Low Stem Vigor/Height & Density | replant 150 stems/acre- 45 new stems. old haul road. trees damaged during repair | | Yes | | | Yes |
| 2021 | Low Stem Density | Dense tall fescue. Add 30 one gallons and ring spray | 51-75% | | ring sprays | | No |
| 2021 | Low Stem Density | Needs about 25 more trees and ring sprays. | 51-75% | | | | No |
| 2021 | Low Stem Density | Old pond. Plant willows, elderberry, mulberry, and cottonwood. ~25 stems. Add live stakes along streams | 76-100% | | | | No |
| 2021 | Low Stem Density | Old field succession. Reduce sweet gum by 40%. Plan for blackberry release, 25 one gallons, and ring sprays | 51-75% | | | | No |

| Year | Issue | Issue_Desc | Percent | Cover | Treat | Treat | Treat | Treat | Method | 1 |
|------|-------------------------------|---|---------|-------|--|-------|-------|----------|--------|---|
| 2021 | Low Stem Density | Needs 25 one gallons | 51-75% | | | | | | No | |
| 2021 | Low Stem Density | Needs 20 one gallons. Add amendments now. Very few trees in Vigor/Height & Density | 51-75% | | | | | | No | |
| 2021 | | Need tree release and some one gallon planting. Plan for planting ~50 containers, ring sprays, blackberry release, and amendments | 26-50% | No | brush cut blackberry. | | | Backpack | No | |
| 2021 | | Need tree release and some one gallon planting. Plan for planting ~50 containers, ring sprays, blackberry release, and amendments | 26-50% | No | follow up spray with 2.5% triclopyr | | | | No | |
| 2021 | | Need tree release and some one gallon planting. Plan for planting ~50 containers, ring sprays, blackberry release, and amendments | 26-50% | No | Weedeat blackberry around trees | | | Mow | No | |
| 2021 | Bare Areas & Low Stem Density | Continue seeding, amendments, and plant willow poles | | Yes | heavily seeded bare areas in P2 cuts with millet | | | | No | |
| 2021 | Bare Areas & Low Stem Density | Continue seeding, amendments, and plant willow poles | | Yes | planted 325 new stems. Added soil amendment mix to planting holes for containers | | | | No | |
| 2021 | Bare Areas & Low Stem Density | Continue seeding, amendments, and plant willow poles | | Yes | ring sprays- 2.5% glyphosate solution | | | | No | |
| 2021 | Bare Areas & Low Stem Density | Continue seeding, amendments, and plant willow poles | | Yes | Cover crop | | | | No | |

Weed Issues

| Year | InvSpecies | InvSpecies | InvSpecies | Desc | Treatment | Treat | Treat | Treat | Percent | Control | Effective |
|------|------------|----------------|------------------------|------------------------------------|-----------|-------|-------|-------|---------|---------|-----------|
| 148 | 1919 | Chinese Privet | | Small patch | | | | | | No | |
| 149 | 1919 | Chinese Privet | Japanese Hon-ey-suckle | cut stump (LISI) and foliar (LOJA) | | | | | | No | |

| Year | InvSpecies | InvSpecies | InvSpecies | Issue_3Desc | Treatment | Treat_Des | Treat_Des | Resolved | Lead_ | Steward | Effective_ |
|----------|------------|------------|------------|---------------------|---------------------------|-----------|-----------|----------|-------|---------|------------|
| 150 2019 | Japanese | | | | | | | | | | No |
| | Hon- | | | | | | | | | | |
| | ey- | | | | | | | | | | |
| | suckle | | | | | | | | | | |
| 151 2019 | Multiflora | | | one large clump | | | | | | | No |
| | Rose | | | | | | | | | | |
| 152 2019 | Tree | | | Some large some | stem injection | Stem | 2021- | | | | No |
| | Of | | | sapling | | In- | 09- | | | | |
| | Heaven | | | | | jec- | 29 | | | | |
| | | | | | | tion | | | | | |
| 153 2021 | Blackberry | | | Cut in April 2021. | | | | | | | No |
| | | | | Spray in early | | | | | | | |
| | | | | spring 2022 | | | | | | | |
| 154 2021 | Chinese | | | large stems | Cut stump | Cut | 2021- 76- | | | | Yes |
| | Privet | | | | | Stump | 02- 100% | | | | |
| | | | | | | | 02 | | | | |
| 155 2021 | Chinese | | | some small. some | | | | | | | Yes |
| | Privet | | | resprouting | | | | | | | |
| | | | | previously treated | | | | | | | |
| | | | | large stems | | | | | | | |
| 156 2021 | Johnson | | | Dense. Flowering | | | | | | | No |
| | Grass | | | in July 2021 | | | | | | | |
| 157 2021 | Multiflora | | | Treated in spring | sprayed out | | 2021- | | | | No |
| | Rose | | | 2021. Few shoots | | | 04- | | | | |
| | | | | survive. Treat in | | | 23 | | | | |
| | | | | September 2021 | | | | | | | |
| 158 2021 | Sweet | | | Dense sweet gum. | | | | | | | No |
| | Gum | | | Reduce by 50% | | | | | | | |
| 159 2021 | Tree | | | Several trees. Stem | Cut stump and stem | Stem | 2021- | | | | Yes |
| | Of | | | inject | injection. Some resprouts | In- | 09- | | | | |
| | Heaven | | | | may occur in future. | jec- | 29 | | | | |
| | | | | | Need to check next year. | tion | | | | | |
| 160 2021 | Tree | | | Sapling and pole | stem injection and cut | Stem | 2021- | | | | Yes |
| | Of | | | sized. Mostly off | stump. Neil | In- | 10- | | | | |
| | Heaven | | | CE | | jec- | 13 | | | | |
| | | | | | | tion | | | | | |

Miscellaneous Issues

| Site | Year | Subtype | Issue_Desc | Issue_Location | OrFeaTreated | Treat_Des | Resolved | Lead_Steward |
|------|-----------|---------|------------|----------------|--------------|-----------|----------|--------------|
| 10 | Buckwater | 2019 | Soil | BW-A | na | na | na | Neil |
| | | | Sample | | | | | |
| NA | | | | | | | | |
| NA.1 | | | | | | | | |
| NA.2 | | | | | | | | |
| NA.3 | | | | | | | | |