




| Unnamed tributary  |                                  | ok-0528-r-002   | Sedimentation Risk Index<br><b>36</b> |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
|--|----------------------------------|---|---------------------------------------|---------|------------------|-------------------|--------|------------------|-----|-----------------|--------------------|------|--------------------|---------------------|-----|----------------|-------------------------|----------------------------|-------------------|------------------------|----------------------|---------------|------------------------|---------------|---|------------------------------|----------------------|---|---------------------|-----|---|---------------|-------|---|--------------------|-----------|---|--------------------|-----------|---|-------------------|-----------|---|-------------------|-----------|---|----------------------|-----------|---|----------------------|-----------|---|---------------------|-----------|---|---------------------|-----------|---|--------------|----------------------------------|---|---------------|----------------------------|---|------------------|------------------|-----------|---|--|
| <u>Common:</u> 3.8mi NE of Laurel Hill<br><u>Drainage:</u> Horsehead Creek <u>GPS:</u> 30.992017, -86.405206<br><u>Land owner:</u> Mavin & Edwin Vickers-DS, Dale Riley-US   |                                  | <u>County:</u> Okaloosa <u>State:</u> Florida<br><u>PLSS(T-R-S):</u> 6N-22-26<br><u>Parcel No.:</u> 1.001, 3<br><u>Road Name:</u> Robinson Rd   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
|   |                                  |   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Crossing Structure: US   |                                  | US  |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| <table border="1"> <thead> <tr> <th>Risk Factor</th> <th>Ranking</th> <th>Score</th> </tr> </thead> <tbody> <tr><td>US Channel Morph</td><td>DA</td><td>3</td></tr> <tr><td>DS Channel Morph</td><td>DA</td><td>3</td></tr> <tr><td>DS Bank Alteration</td><td>HIGH</td><td>1</td></tr> <tr><td>Upstream Skew Angle</td><td>&lt;5°</td><td>5</td></tr> <tr><td>Crossing fill condition</td><td>Good/Vegetated</td><td>5</td></tr> <tr><td>Inlet/Outlet Condition</td><td>Sed Islands/Scouring</td><td>3</td></tr> <tr><td>Road Approach Material</td><td>All Sand/Clay</td><td>3</td></tr> <tr><td>Potential Eroded Volume Mean</td><td>21-40 y<sup>3</sup></td><td>3</td></tr> <tr><td>Approach Slope Mean</td><td>&gt;4%</td><td>1</td></tr> <tr><td>Soil K Factor</td><td>&lt;0.20</td><td>5</td></tr> <tr><td>Upstream Rt Outlet</td><td>Bare soil</td><td>0</td></tr> <tr><td>Upstream Lt Outlet</td><td>Bare soil</td><td>0</td></tr> <tr><td>Upstream Rt Ditch</td><td>Bare soil</td><td>0</td></tr> <tr><td>Upstream Lt Ditch</td><td>Bare soil</td><td>0</td></tr> <tr><td>Downstream Rt Outlet</td><td>Vegetated</td><td>1</td></tr> <tr><td>Downstream Lt Outlet</td><td>Vegetated</td><td>1</td></tr> <tr><td>Downstream Rt Ditch</td><td>Bare soil</td><td>0</td></tr> <tr><td>Downstream Lt Ditch</td><td>Bare soil</td><td>0</td></tr> <tr><td>Outlet Total</td><td>Partially Improved Outlet System</td><td>3</td></tr> <tr><td>Ditches Total</td><td>Unimproved Drainage System</td><td>1</td></tr> <tr><td><b>SRI Total</b></td><td><b>High Risk</b></td><td><b>36</b></td></tr> </tbody> </table> |                                  | Risk Factor   | Ranking                               | Score   | US Channel Morph | DA                | 3      | DS Channel Morph | DA  | 3               | DS Bank Alteration | HIGH | 1                  | Upstream Skew Angle | <5° | 5              | Crossing fill condition | Good/Vegetated             | 5                 | Inlet/Outlet Condition | Sed Islands/Scouring | 3             | Road Approach Material | All Sand/Clay | 3 | Potential Eroded Volume Mean | 21-40 y <sup>3</sup> | 3 | Approach Slope Mean | >4% | 1 | Soil K Factor | <0.20 | 5 | Upstream Rt Outlet | Bare soil | 0 | Upstream Lt Outlet | Bare soil | 0 | Upstream Rt Ditch | Bare soil | 0 | Upstream Lt Ditch | Bare soil | 0 | Downstream Rt Outlet | Vegetated | 1 | Downstream Lt Outlet | Vegetated | 1 | Downstream Rt Ditch | Bare soil | 0 | Downstream Lt Ditch | Bare soil | 0 | Outlet Total | Partially Improved Outlet System | 3 | Ditches Total | Unimproved Drainage System | 1 | <b>SRI Total</b> | <b>High Risk</b> | <b>36</b> |  |  |
| Risk Factor  | Ranking                          | Score   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| US Channel Morph   | DA                               | 3   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| DS Channel Morph   | DA                               | 3   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| DS Bank Alteration   | HIGH                             | 1   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Upstream Skew Angle  | <5°                              | 5   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Crossing fill condition  | Good/Vegetated                   | 5   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Inlet/Outlet Condition   | Sed Islands/Scouring             | 3   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Road Approach Material   | All Sand/Clay                    | 3   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Potential Eroded Volume Mean   | 21-40 y <sup>3</sup>             | 3   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Approach Slope Mean  | >4%                              | 1   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Soil K Factor  | <0.20                            | 5   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Upstream Rt Outlet   | Bare soil                        | 0   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Upstream Lt Outlet   | Bare soil                        | 0   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Upstream Rt Ditch  | Bare soil                        | 0   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Upstream Lt Ditch  | Bare soil                        | 0   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Downstream Rt Outlet   | Vegetated                        | 1   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Downstream Lt Outlet   | Vegetated                        | 1   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Downstream Rt Ditch  | Bare soil                        | 0   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Downstream Lt Ditch  | Bare soil                        | 0   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Outlet Total   | Partially Improved Outlet System | 3   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Ditches Total  | Unimproved Drainage System       | 1   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| <b>SRI Total</b>   | <b>High Risk</b>                 | <b>36</b>   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| <b>Additional Site Features</b><br><u>Crossing Type and Quantity:</u> Bridge, 1<br><u>Crossing Materials:</u> Wood<br><u>Soil Types:</u> 13,36,37,39,40,41,42,43,49,52,55,56<br><u>Rt Approach Prism Fill:</u> 0.5in<br><u>Lt Approach Prism Fill:</u> 0.75in  |                                  | <table border="1"> <thead> <tr> <th>Feature</th> <th>Within Range</th> <th>Descriptive Field</th> </tr> </thead> <tbody> <tr><td>303(d)</td><td>No</td><td>N/A</td></tr> <tr><td>Wetland Species</td><td>No</td><td>N/A</td></tr> <tr><td>Rare and Imperiled</td><td>No</td><td>N/A</td></tr> <tr><td>Land Use/Cover</td><td>Yes</td><td>N/A / WETLAND FORESTED MIX</td></tr> <tr><td>Candidate Mussels</td><td>No</td><td>N/A</td></tr> <tr><td>Sturgeon C.H.</td><td>No</td><td>N/A</td></tr> </tbody> </table> |                                       | Feature | Within Range     | Descriptive Field | 303(d) | No               | N/A | Wetland Species | No                 | N/A  | Rare and Imperiled | No                  | N/A | Land Use/Cover | Yes                     | N/A / WETLAND FORESTED MIX | Candidate Mussels | No                     | N/A                  | Sturgeon C.H. | No                     | N/A           |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Feature  | Within Range                     | Descriptive Field   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| 303(d)   | No                               | N/A   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Wetland Species  | No                               | N/A   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Rare and Imperiled   | No                               | N/A   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Land Use/Cover   | Yes                              | N/A / WETLAND FORESTED MIX  |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Candidate Mussels  | No                               | N/A   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |
| Sturgeon C.H.  | No                               | N/A   |                                       |         |                  |                   |        |                  |     |                 |                    |      |                    |                     |     |                |                         |                            |                   |                        |                      |               |                        |               |   |                              |                      |   |                     |     |   |               |       |   |                    |           |   |                    |           |   |                   |           |   |                   |           |   |                      |           |   |                      |           |   |                     |           |   |                     |           |   |              |                                  |   |               |                            |   |                  |                  |           |   |  |

Notes: High sedimentation levels from outlets.