ATTACHMENT A

UMAM Worksheets -Jefferson County

| Site/Project Name | | Application Number | er Assessment Area Name or Number | | | or Number | | |
|--|---|--------------------|--|-----------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency | Connection | | | W-EE-140A | | -140A | | |
| FLUCCs code | Further classifica | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 630 | We | etland Forested M | ixed | | Impact | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek - Aucilla River | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federal | designation of importance) | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| Aucilla F | Aucilla River flows through wetland. Adjacent to I-10 and runoff from I-10 drains into wetland. | | | | | | | |
| Assessment area description | | | | | | | | |
| Vegeta | ation within the wetland i | is a mix of hardwo | oods, shrubs, and | mixed | herbaceous layer. | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | | |
| I-10 and associated FDOT fence south of wetland, Aucilla River flows through wetland further west. | | | Not unique | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | | |
| Water quality, wate | er storage, wildlife habita | at | NA | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Wading birds, | , reptiles, mammals | | | | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | |
| | | | | | | | | |
| | | None | : | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| Nicole Jeter | | | 2/6/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-140A Impact or Mitigation Assessment conducted by: Assessment date: Nicole Jeter 2/6/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This wetland is bounded by I-10 on the southern boundary. There is a large, barbed wire FDOT fence that also transects wetland. The surrounding area land use includes pine plantations, areas of recently logged pine stands, and cow pasture. Aucilla River flows through wetland west of assessment area. w/o pres or current with 6 5 .500(6)(b)Water Environment (n/a for uplands) The hydroperiod of this wetland is altered by adjacent road and interstate right of way slope. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Invasive species observed in the outer portion of wetland. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13x4.963=0.645 with w/o pres Adjusted mitigation delta = 0.6 0.47 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.47-0.6=0.13

| Site/Project Name Application Nut | | | er Assessment Area Name or Number | | | or Number | | |
|---|---|--------------------|--|--------------------------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency | Connection | | | | W-EE | -140B | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | | |
| 630 | We | etland Forested Mi | ixed | | Impact | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek - Aucilla River | Affected Waterbody (Clas | ;s) | Special Classificati | ON (i.e.(| OFW, AP, other local/state/federal | designation of importance) | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| Aucilla F | Aucilla River flows through wetland. Adjacent to I-10 and runoff from I-10 drains into wetland. | | | | | | | |
| Assessment area description | | | | | | | | |
| Vegeta | tion within the wetland i | is a mix of hardwo | oods, shrubs, and | mixed | herbaceous layer. | | | |
| Significant nearby features | Uniqueness (col landscape.) | nsider | ing the relative rarity in | relation to the regional | | | | |
| I-10 and associated FDOT fence through wet | Not unique | | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | | |
| Water quality, wate | r storage, wildlife habita | at | NA | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Wading birds, | reptiles, mammals | | | | | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | |
| | | | | | | | | |
| | | None | ; | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| Nicole Jeter | | | 2/6/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-140B Impact or Mitigation Assessment conducted by: Assessment date: Nicole Jeter 2/6/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This wetland is bounded by I-10 on the southern boundary. There is a large, barbed wire FDOT fence that also transects wetland. The surrounding area land use includes pine plantations, areas of recently logged pine stands, and cow pasture. Aucilla River flows through wetland west of assessment area. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The hydroperiod of this wetland is altered by adjacent road and interstate right of way slope. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Invasive species observed in the outer portion of wetland. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 1.433 = 0.143 with w/o pres Adjusted mitigation delta = 0.6 0.5 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.1

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | | |
|--|----------|--------------------------------|---|--------------------------------|----------------------------|------------------------------|--|
| North Florida | Resilie | ncy Connection | | | W-EE-140B | | |
| Impact or Mitigation | | | Assessment conducted by: | | Assessment date: | | |
| Pole L | ocation | n Impact | Nicole Jeter | | 2/6/2019 | | |
| | | | | | | | |
| Scoring Guidance The scoring of each | | Optimal (10) | Moderate(7) Condition is less than | Mi | nimal (4) | Not Present (0) | |
| indicator is based on what | | Condition is optimal and fully | optimal, but sufficient to | Minimal le | evel of support of | Condition is insufficient to | |
| would be suitable for the | | supports wetland/surface | maintain most | | /surface water unctions | provide wetland/surface | |
| type of wetland or surface water assessed | | water functions | wetland/surface water functions | π | Inctions | water functions | |
| | | | | | | | |
| .500(6)(a) Location an Landscape Support w/o pres or <u>current</u> 6 | | transects wetland. The surr | ey I-10 on the southern bounda ounding area land use include asture. Aucilla River flows thro | s pine plant | ations, areas of re | cently logged pine stands, | |
| .500(6)(b)Water Environment (n/a for uplands) The hydroperiod of this wetland is altered by adjacent road and interstate right of way slope. | | | | | | ht of way slope. | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 0 | | | | | | | |
| | | | | | | | |
| Score = sum of above scores | /30 (if | If preservation as mitiga | ation, | | For impact asses | sment areas | |
| uplands, divide by 20) | | Preservation adjustmer | nt factor = | | | | |
| current or w/o pres | with | A diveted mitigation dat | | FL = | delta x acres = | | |
| 0.6 | 0 | Adjusted mitigation delt | la – | | | | |
| | | l | | | | | |
| If mitigation | | | | F | or mitigation asse | ssment areas | |
| Delta = [with-current] | l | Time lag (t-factor) = | | | | | |
| | | Risk factor = | | RFG | = delta/(t-factor x | risk) = | |
| L | | | | L | | | |
| Form 62-345.900(2), F.A.C. | . [effec | tive date 02-04-2004] | | | | | |

| Site/Project Name | Application Number | | | Assessment Area Name or Number | | | | |
|---|----------------------------|--------------------|--|--------------------------------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency (| Connection | | | | W-E | E-142 | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | | |
| 621 | | Cypress | | - | - | | | |
| Basin/Watershed Name/Number A HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ss) | Special Classification | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| | Adjacent to I-10, cor | nnected hydrologi | ically to bottomland | ds to t | the north | | | |
| Assessment area description | | | | | | | | |
| | The | depressional wetl | and with cypress | | | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ring the relative rarity in | relation to the regional | | |
| | Not unique | | | | | | | |
| Functions | Mitigation for prev | vious | permit/other historic use | 3 | | | | |
| Water quality, water | r storage, wildlife habita | at | | NA | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Provides habitat and refuge for mam reptiles and amphibians. | ımals, resident songbir | rds, wading birds, | NA | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | s trac | ks, droppings, casings, | nests, etc.): | | |
| | | | None | | | | | |
| | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | :(s): | | | | |
| A Wickman and N Calhoun | | | 2/13/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-142 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/13/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by coniferous plantations, an interstate rest stop, and I-10 to the south. However, the wetland is located with State conservation lands (Suwanee River Water Management District) w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The wetland is a depressional wetland that is hydrologically connected to bottomlands to the north. w/o pres or current with 8 8 .500(6)(c)Community structure Appropriate vegetation which consists predominantly of bald cypress with co-dominants of blackgum and red maple. 1. Vegetation and/or Understory along the edges includes sweet gallberry and Lyonia lucida. Groundcover includes wetland sedges and 2. Benthic Community grasses, such as Xyris and beakrush. n/o pres or with current 9 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.2 x 0.483 = 0.097 with w/o pres Adjusted mitigation delta = 0.80 0.6 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.2

| Site/Project Name | Application Number | | Assessment Area Name or Number | | | | |
|--|---|--|--------------------------------|---|---|-------------------|--|
| North Florida Resilie | ency Connection | | | W-EE-142 | | | |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date: | | | |
| Pole Locatio | n Impact | A. Wickman and N. Ca | A. Wickman and N. Calhoun | | 2/13/2019 | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present (0 | 0) | |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | Condition is less than | Minimal le wetland | vel of support of /surface water inctions | Condition is insuffici provide wetland/su water functions | ient to Irface | |
| water assessed | | Idilotions | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current with</u> 7 0 | | is surrounded by coniferous pl located with State conservatio | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) The wetland is a depressional wetland that is hydrologically connected to bottomlands to the north. | | | | | | | |
| .500(6)(c)Community structure .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which consists predominantly of bald cypress with co-dominants of blackgum and red map 2. Benthic Community Understory along the edges includes sweet gallberry and Lyonia lucida. Groundcover includes wetland sedges an grasses, such as Xyris and beakrush. w/o pres or 0 | | | | | | | |
| | | 1 | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.80 0 | If preservation as mitigation adjustmer Preservation adjustmer Adjusted mitigation delt | nt factor = | | For impact asses: delta x acres = | sment areas | | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = | | F | or mitigation asse | ssment areas | | |
| | Risk factor = | | RFG | = delta/(t-factor x | risk) = | | |

| Site/Project Name Application | | | ər | | Assessment Area Name or Number | | | | | |
|--|-----------------------------|--------------------|---|-----------|------------------------------------|----------------------------|--|--|--|--|
| North Florida Resiliency | / Connection | | | | W-E | E-142A | | | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | | | |
| 630 | Wetland F | Forested Mixed | | | č | | | | | |
| | Wolding I | | | | | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification | on (i.e.0 | OFW, AP, other local/state/federal | designation of importance) | | | | |
| HUC 10 Alligator Creek-Aucilla River | 3 | | | | | | | | | |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other s | urface water, uplar | nds | | | | | | |
| | Adjacent to I-10, co | nnected hydrologi | ically to bottomland | ds to t | he north | | | | | |
| Assessment area description | | | | | | | | | | |
| | The | depressional wetl | land with cypress | | | | | | | |
| | | | | | | | | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ing the relative rarity in | relation to the regional | | | | |
| | | | Not unique | | | | | | | |
| | | | | | | | | | | |
| Functions | Mitigation for prev | /ious | permit/other historic use |) | | | | | | |
| | | | | | 514 | | | | | |
| Water quality, wate | er storage, wildlife habita | at | | | NA | | | | | |
| Anticipated Wildlife Utilization Base | | | | | by Listed Species (List s | | | | | |
| that are representative of the asse be found) | ssment area and reason | iably expected to | classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | | | |
| | | | | | | | | | | |
| Provides habitat and refuge for ma reptiles and amphibians. | mmals, resident songbir | rds, wading birds, | | | NA | | | | | |
| | | | | | | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or | other signs such a | s trac | ks, droppings, casings, | nests, etc.): | | | | |
| | | | | | | | | | | |
| | | | None | | | | | | | |
| | | | | | | | | | | |
| Additional relevant factors: | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Assessment conducted by: | | | | (-) | | | | | | |
| A Wickman and N Calhoun | | | Assessment date(s): 2/13/2019 | | | | | | | |
| A Worthan and A Gamoan | A Wickman and N Calhoun | | | | | 2/13/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-142A Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/13/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by coniferous plantations, an interstate rest stop, and I-10 to the south. However, the wetland is located with State conservation lands (Suwanee River Water Management District) w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The wetland is a depressional wetland that is hydrologically connected to bottomlands to the north. w/o pres or current with 8 8 .500(6)(c)Community structure Appropriate vegetation which consists predominantly of bald cypress with co-dominants of blackgum and red maple. 1. Vegetation and/or Understory along the edges includes sweet gallberry and Lyonia lucida. Groundcover includes wetland sedges and 2. Benthic Community grasses, such as Xyris and beakrush. n/o pres or with current 9 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.2 x 0.348 = 0.070 with w/o pres Adjusted mitigation delta = 0.80 0.6 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.2

| Site/Project Name | Application Number | nber Assessment Area | | | a Name or Number | | | |
|---|---|--------------------------------|--|----------------------------|------------------------------------|------------------------------|--|--|
| North Florida Resiliency | / Connection | | | W-EE-143 | | | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 611 | | Bay Swamp | | | Impact | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification | on (i.e.C | DFW, AP, other local/state/federal | l designation of importance) | | |
| HUC 3: Alligator Creek-Aucilla River | Class | 3 | | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | urface water, uplar | nds | | | | |
| | | Unknow | wn | | | | | |
| Assessment area description | | | | | | | | |
| Mediu | Medium sized concave red maple/bay swamp wetland depression within a pine plantation. | | | | | | | |
| Significant nearby features | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | | | |
| This area is surrounded by pine pla border, a rest area to the east, | Owned and managed by SRWMD | | | | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use |) | | |
| Wildlife habitat, wa | ater quality, water storag | je | | | N/A | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Typical mammals, birds, amphibia | ans, and reptiles. No fish | h were observed. | | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or o |] other signs such as | s track | ks, droppings, casings, i | nests, etc.): | | |
| Туріса | al animal signs for the a | irea: deer, raccoor | n, opossum, armad | dillo, tu | urkey, bobcat, etc. | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| Joshua L. Bell | | | 2/13/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-143 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/13/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Wetland is within a planted pine plantation and has I-10 to the south, a rest area to the west, and Hendry Tram Road to the north. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) Appears to hold surface water long enough to support wildlife habitat. However it may not contain water long enough to support fish w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation for this location. 2. Benthic Community w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.473 = 0.061 with w/o pres Adjusted mitigation delta = 0.60 0.47 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | | |
|--|---|--|------------|--|------------------------------|--|--|
| North Florida Resilie | ency Connection | | | W-EE-143 | | | |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date: | | | |
| Pole Location | n Impact | Joshua L. Bell | Bell | | 2/13/2019 | | |
| | | | 1 | | | | |
| Scoring Guidance The scoring of each | Optimal (10) | Moderate(7) Condition is less than | Mir | nimal (4) | Not Present (0) | | |
| indicator is based on what | Condition is optimal and fully | optimal, but sufficient to | Minimal le | vel of support of | Condition is insufficient to | | |
| would be suitable for the | supports wetland/surface | maintain most | | surface water | provide wetland/surface | | |
| type of wetland or surface water assessed | water functions | wetland/surface water functions | TU | nctions | water functions | | |
| | | | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or current with 4 0 | Wetland is within a planted p | ine plantation and has I-10 to to to to to the r | | rest area to the w | est, and Hendry Tram Road | | |
| 4 0 | | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7 0 | Appears to hold surface wate | er long enough to support wildl to suppo | | łowever it may no | t contain water long enough | | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with | munity structure ation and/or Community Appropriate vegetation for this location. | | | | | | |
| 7 0 | | | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.60 0.00 | If preservation as mitig Preservation adjustmer Adjusted mitigation delt | nt factor = | FL = 0 | For impact assess delta x acres = or mitigation asse | | | |
| Delta = [with-current] | Time lag (t-factor) = | | | U | | | |
| | Risk factor = | | RFG : | = delta/(t-factor x | risk) = | | |

| Site/Project Name | Application Number | | | Assessment Area Name or Number | | | |
|--|--------------------------------|---|--|--------------------------------|--------------------------|------------------------|--|
| North Florida Resiliency | / Connection | | | | W-EE-145 | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | iss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | |
| HUC 10: Alligator Creek-Aucilla River | Class 3 (Wol | lf Creek) | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | urface water, uplar | nds | | | |
| | Connected to a large | wetland system t | hat is associated v | vith Wo | olf Creek. | | |
| Assessment area description | | | | | | | |
| This area is a bay swamp that is a | djacent to Wolf Creek. | East from Wolf Cr also drains into \ | | ⁱ hyric | pine plantation before a | another bay swamp that | |
| Significant nearby features | Uniqueness (con landscape.) | nsideri | ing the relative rarity in | relation to the regional | | | |
| I-10 and Hendry Tram bisect this wetland system, altering its hydrology via culverts. Planted pine on its west and east sides. This wetland is owned/managed by SRWMD. | | | Unique because the wetland is connected to Wolf Creek and is owned and managed by SRWMD. | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic us | e | |
| Water quality, water | storage, and wildlife hat | bitat | N/A | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Various mammals, fisł | h, amphibians, birds, rep | ptiles. | | | N/A | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ectly observed, or | other signs such a | s track | ks, droppings, casings, | nests, etc.): | |
| C | Deer tracks and various | animal signs, red | -shouldered hawk, | , minnc | ows, crayfish. | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date(s): | | | | |
| Joshua L. Bell | | | 2/7/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-145 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/7/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Bisected by I-10 and its 12 foot wildlife fence and Hendry Tram Road. This area is protected and managed by SRWMD. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) Planted pines are on both sides of this wetland. Includes Wolf Creek and associated expansive wetland system to the north. w/o pres or current with 8 8 .500(6)(c)Community structure 1. Vegetation and/or Contains typical wetland overstory and benthic community species associated with flowing freshwater creeks. 2. Benthic Community w/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 1.327= 0.226 with w/o pres Adjusted mitigation delta = 0.77 0.60

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

0.17

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

| Site/Project Name | | | Application Number | | Assessment Area Name or Number | | | | |
|--|---------|--|---|---------------------------------|--------------------------------------|---|--|--|--|
| North Florida | Resilie | ncy Connection | | | W-EE-145 | | | | |
| Impact or Mitigation | | | Assessment conducted by: | | Assessment date: | | | | |
| Pole L | ocation | n Impact | Joshua L. Bell | | 2/7/2019 | | | | |
| | | | | | | | | | |
| Scoring Guidance | | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present (0) | | | |
| The scoring of each indicator is based on what would be suitable for the | | Condition is optimal and fully supports wetland/surface | Condition is less than optimal, but sufficient to maintain most | wetland | evel of support of /surface water | Condition is insufficient to provide wetland/surface | | | |
| type of wetland or surface water assessed | | water functions | wetland/surface water functions | fu | unctions | water functions | | | |
| Waler assessed | | | TUTICUOTIS | | | | | | |
| .500(6)(a) Location and Landscape Support Bisected by I-10 and its 12 foot wildlife fence and Hendry Tram Road. This area is prote SRWMD. w/o pres or current with 7 0 | | | | | otected and managed by | | | | |
| .500(6)(b)Water Environment (n/a for uplands) Planted pines are on both sides of this wetland. Includes Wolf Creek and associated expansive wetland system to the north. w/o pres or current with 8 0 | | | | | | | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community W/o pres or current with 8 | | | | | | | | | |
| | | | | | | | | | |
| Score = sum of above scores/ | /30 (if | If preservation as mitiga | ation, | | For impact asses | sment areas | | | |
| uplands, divide by 20) current or w/o pres | with | Preservation adjustmer | | FL = | delta x acres = | | | | |
| | 0.00 | Adjusted mitigation delt | ia = | | | | | | |
| | | | | | | | | | |
| If mitigation For mitigation assessment areas | | | | ssment areas | | | | | |
| Delta = [with-current] | | Time lag (t-factor) = | | REC | = delta/(t-factor v | risk) = | | | |
| | | Risk factor = | | RFG = delta/(t-factor x risk) = | | | | | |
| Form 62-345.900(2), F.A.C. | [effec | tive date 02-04-2004] | - | | | - | | | |

| Site/Project Name | Site/Project Name | | | | Assessment Area Name or Number | | | |
|--|--|---------------------|--|---------------------------|-----------------------------------|------------------------------|--|--|
| North Florida Resiliency | / Connection | | | | W-E | E-147 | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 611 | | Bay Swamps | | Impact | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.C | DFW, AP, other local/state/federa | I designation of importance) | | |
| HUC 10: Alligator Creek-Aucilla River | Class | 3 | | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | urface water, uplar | ıds | | | | |
| This wetland appears isolated but is near a larger wetland system that is located northwest of it. | | | | | | | | |
| Assessment area description | | | | | | | | |
| Relatively small concave wetland with shallow, non-flowing water. | | | | | | | | |
| Significant nearby features | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | | | |
| I-10 and Hendry Tram Road to th pine | Property belongs to SRWMD but is surrounded by planted pine. | | | | | | | |
| Functions | | Mitigation for prev | vious p | permit/other historic use | 2 | | | |
| Water quality, water | storage, and wildlife hab | bitat | | | N/A | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Mammals, ampl | hibians, birds, reptiles. | | N/A | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or o | other signs such a | s track | ks, droppings, casings, | nests, etc.): | | |
| Deer tracks and various animal signs | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | ;(s): | | | | |
| Joshua L. Bell | 2/7/2019 | | | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-147 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/7/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support I-10 and its 12 foot wildlife fence and Hendry Tram Road are to its immediate south. This area is protected and managed by SRWMD. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) Planted pines are on both sides of this wetland. Small potential of wildlife habitat for various wildlife. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Contains typical wetland overstory and understory species but with low diversity. 2. Benthic Community w/o pres or with current 5 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.07 x 0.154 = 0.011 with w/o pres Adjusted mitigation delta = 0.57 0.50 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.07

| Site/Project Name | | Application Numbe | er | | Assessment Area Name or Number | | | | |
|---|---|---------------------|--|---------------------------|--------------------------------|----------------------|--|--|--|
| North Florida Resiliency | Connection | | | | W-EE-149 | | | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | | |
| 617 | Mixe | ed Wetland Hardw | voods | Impact | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | | | |
| HUC 10: Alligator Creek-Aucilla River | Class | 3 | | | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | urface water, uplar | nds | | | | | |
| Beg | ins at I-10 and expands | north towards a b | igger wetland outs | ide of | the right of way. | | | | |
| Assessment area description | | | | | | | | | |
| | Concave bowl holding surface water. Shallow, non-flowing water. | | | | | | | | |
| Significant nearby features | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | | | | |
| I-10 to the south and larger wetla S | Not unique | | | | | | | | |
| Functions | | Mitigation for pre | vious | permit/other historic use |) | | | | |
| Water quality, water | storage, and wildlife hab | oitat | N/A | | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | | |
| Mammals, amphibians,and | l reptiles. Less than idea | al habitat. | N/A | | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or o | ther signs such a | s tracł | ks, droppings, casings, | nests, etc.): | | | |
| Deer tracks and various animal signs | | | | | | | | | |
| Additional relevant factors: | | | | | | | | | |
| Adjacent to silvicultural practices on west side of wetland. | | | | | | | | | |
| Assessment conducted by: | | | Assessment date(s): | | | | | | |
| Joshua L. Bell | | | 2/7/2019 | | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-149 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/7/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This area is a small bowl that is holding some non-flowing surface water, I-10 and its 12-foot wildlife barrier fence are to the immideiate south. A road bisects this area, cutting it off from the wetlands and uplands to the north that are owned and managed by the SRWMD. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) There is a small potential for habitat for various amphibians and insects. w/o pres or current with 3 3 .500(6)(c)Community structure 1. Vegetation and/or Water is non-flowing and the vegetation is not very diverse. 2. Benthic Community w/o pres or with current 3 1 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = FL = delta x acres = 0.07 x 0.238 = current 0.016 with w/o pres Adjusted mitigation delta = 0.33 0.27 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.07

| Site/Project Name | Application Numbe | er Assessment Area Name or Number | | | or Number | | |
|---|----------------------------|-----------------------------------|--|------------|----------------------------------|------------------------------|--|
| North Florida Resiliency | Connection | | | W-EE-151 | | | |
| FLUCCs code | Further classificat | tion (optional) | | Impact | or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | s) | Special Classificati | on (i.e.Of | FW, AP, other local/state/federa | l designation of importance) | |
| HUC 10: Alligator Creek-Aucilla River | Class 3 | 3 | | | | | |
| Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands | | | | | | | |
| | Begins at I-10 and | l expands north. F | lydro-connectivity | is unkr | nown. | | |
| Assessment area description | | | | | | | |
| | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsiderir | ng the relative rarity in | relation to the regional | |
| I-10 and newly installed access road cuts through this wetland on its south side, altering the hydrology. | | | Not unique | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, water | storage, and wildlife hab | vitat | N/A | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Various mammals, fish | n, amphibians, birds, rep | tiles. | N/A | | | | |
| Observed Evidence of Wildlife Utili | zation (List species direc | ctly observed, or o | ther signs such a | s tracks | s, droppings, casings, | nests, etc.): | |
| Deer tracks and various animal signs, honey bees in tree cavity, 3-foot cottonmouth. | | | | | | | |
| Additional relevant factors: | | | | | | | |
| Adjacent to silvicultural practices or | n west side of wetland. | | | | | | |
| Assessment conducted by: | | | Assessment date(s): | | | | |
| Joshua L. Bell | | | 2/5/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-151 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/5/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This wetland is bisected by I-10 and a recently installed road. This road has a culvert allowing water to drain from I-10 to the main wetland. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) This wetland provides wildlife habitat, water quality, and water storage. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Aside from the surrounding manmade features and disturbances, the community structure for this wetland is 2. Benthic Community appropriate. w/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 0.779 = 0.132 with w/o pres Adjusted mitigation delta = 0.67 0.50 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0 17

| Site/Project Name | Site/Project Name | | , | Assessment Area Name or Number | | |
|--|--------------------------------|--|-----------------|--------------------------------|----------------------------|------|
| North Florida Resiliency Connection | | | | W-EE-151 | | |
| Impact or Mitigation | | Assessment conducted by: | Assessment date | ssessment date: | | |
| Pole Location | n Impact | Joshua L. Bell | | 2/5/2019 | | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mir | nimal (4) | Not Present (0) | |
| The scoring of each indicator is based on what | Condition is optimal and fully | Condition is less than optimal, but sufficient to | Minimal lev | vel of support of | Condition is insufficient | t to |
| would be suitable for the | supports wetland/surface | maintain most | wetland/ | surface water | provide wetland/surfac | |
| type of wetland or surface water assessed | water functions | wetland/surface water functions | fu | nctions | water functions | |
| water assessed | | TUTICUOTS | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 5000 | This wetland is bisected by I | -10 and a recently installed roa 10 to the ma | | d has a culvert all | owing water to drain from | n I- |
| | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7 0 | This w | vetland provides wildlife habita | t, water qual | ity, and water sto | rage. | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 8 0 | Aside from the surroundi | ng manmade features and dis approp | | ne community stru | icture for this wetland is | |
| | | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitiga | ation, | I | For impact asses | sment areas | |
| uplands, divide by 20) | Preservation adjustmer | nt factor = | | | | |
| current pr w/o pres with | A -li | | FL = c | lelta x acres = | | |
| 0.67 0.00 | Adjusted mitigation delt | a = | | | | |
| | J | | | | | |
| | If mitigation | | Fo | or mitigation asse | ssment areas | |
| Delta = [with-current] | Time lag (t-factor) = | | | 0 | | |
| | Risk factor = | | RFG = | = delta/(t-factor x | risk) = | |
| <u> </u> | | | | | | |

| Site/Project Name App | | Application Numbe | ber Assessment Area Name or Numb | | | or Number | |
|--|---|--------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency | Connection | | | | W-E | E-152 | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | J | | |
| | | Day Owampo | | | | | |
| | Affected Waterbody (Clas | ss) | Special Classification | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| HUC 10 Alligator Creek-Aucilla River | 3 | | | | | | |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| Adja | cent to I-10 and historic | cal swamp to the r | north. Has been hy | /drolo(| gically impacted. | | |
| Assessment area description | | | | | | | |
| | | Depressional b | av swamp | | | | |
| | | | | | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 | | | Somewhat due to connection to large bottomland swamp to the north. | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, wate | r storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for mar woodpeckers, reptiles and amphibia | | iptors, | NA | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire umerous songbirds, egr | | | | | nests, etc.): | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| A Wickman and N Calhoun | | | 2/7/2019 | | | | |

| Site/Project Name | | Application Number | | Assessment Area | a Name or Number | |
|--|---|---|----------|--------------------|------------------------|-------|
| North Florida Resili | | | W-EE-152 | | | |
| Impact or Mitigation | Assessment conducted by: | Assessment date: | | | | |
| | | A. Wickman and N. Ca | houn | 2/7/2019 | | |
| | | | | | | |
| Scoring Guidance The scoring of each | Optimal (10) | Moderate(7) Condition is less than | Mi | nimal (4) | Not Present (| (0) |
| indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | lly optimal, but sufficient to Minimal level of support of Condition is ins | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or current with 7 7 7 | The wetland is located of | f of an exit ramp, adjacent to Ir significant bottomland | | | The wetland is part o | of a |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7 7 7 | The wetland is a band of b | ottomland swamp. The hydrolo south and timbering p | | | construction of I-10 t | o the |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 8 3 | | nich includes red maple, sweet and Cliftonia. Groundcover incli | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) current pr w/o pres with 0.73 0.56 | If preservation as mitiga Preservation adjustmer Adjusted mitigation delt | nt factor = | | For impact assess | | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = | | F | or mitigation asse | ssment areas | |
| | | | | | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.17

| Site/Project Name | | Application Number | As | Assessment Area Name or Number | | |
|--|---|--|---------------------------------------|--------------------------------|--|--|
| North Florida Resiliency Connection | | | | W-EE-152 | | |
| Impact or Mitigation | | Assessment conducted by: | cted by: Assessment date: | | | |
| Pole Lo | cation Impact | A. Wickman and N. Ca | 2/7/2019 | | | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minim | nal (4) | Not Present (0) | |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions | Minimal level wetland/sur funct | rface water | Condition is insufficient to provide wetland/surface water functions | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current wi</u> 7 (| th | f of an exit ramp, adjacent to Ir significant bottomland | | | The wetland is part of a | |
| .500(6)(b)Water Environme (n/a for uplands) w/o pres or current wi 7 (| The wetland is a band of b | ottomland swamp. The hydrolo south and timbering p | | | construction of I-10 to the | |
| .500(6)(c)Community struct 1. Vegetation and/or 2. Benthic Community w/o pres or current wi 8 (| Appropriate vegetation w buttonbush, fetterbush a | nich includes red maple, sweet and Cliftonia. Groundcover incl | | | | |
| | | | _ | | | |
| Score = sum of above scores/3 uplands, divide by 20) current or w/o pres 0.73 | th Adjusted mitigation del | nt factor = | | r impact assess a x acres = | sment areas | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = Risk factor = | | | mitigation asse | | |
| Form 62-345.900(2), F.A.C. | effective date 02-04-2004] | | | | | |

| Site/Project Name | Application Numbe | ber Assessment Area Name or Number | | | e or Number | | |
|--|--------------------------|------------------------------------|--|------------|----------------------------------|-------------------------------|--|
| North Florida Resiliency C | connection | | | | W-E | EE-153 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Міхє | ed Wetland Hardw | loods | | | | |
| Basin/Watershed Name/Number At HUC 10 Alligator Creek-Aucilla River | ffected Waterbody (Clas | ;s) | Special Classificati | ion (i.e.C | OFW, AP, other local/state/feder | al designation of importance) | |
| Geographic relationship to and hydro | logic connection with | wetlands, other si | urface water, upla | nds | | | |
| | Adja | cent to I-10, isolat | ted hydrologically | | | | |
| Assessment area description | | | | | | | |
| The de | epressional wetland is | surrounded by aç | pricultural activities | s and I | I-10 to the south. | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | n relation to the regional | |
| l. | -10 | | Not unique | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, water | storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for small amphibians. | mammals, resident s | ongbirds, and | NA | | | | |
| Observed Evidence of Wildlife Utiliza | tion (List species dire | ctly observed, or e | other signs such a | as tracl | ks, droppings, casings | , nests, etc.): | |
| | | | None | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| A Wickman and N Calhoun | | | 2/7/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-153 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/7/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by agricultural activities and I-10 to the south. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and unimproved pastures surrounding the wetland. There may be a hydrological connection to northern hardwood swamps. w/o pres or current with 6 6 .500(6)(c)Community structure Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover includes 1. Vegetation and/or cassine holly and wetland sedges and grasses. The eastern and western perimeters have been cut over and 2. Benthic Community revegetated with ruderal species. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.14 x 0.413 = 0.058 with w/o pres Adjusted mitigation delta = 0.67 0.53 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.14

| Site/Project Name | Application Numbe | er Assessment Area Name or Number | | | or Number | | |
|---|----------------------------|-----------------------------------|--|------------|------------------------------------|------------------------------|--|
| North Florida Resiliency | Connection | | | | W-E | E-154 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | roods | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | is) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federal | l designation of importance) | |
| Geographic relationship to and hydr | rologic connection with | wetlands, other si | urface water, upla | nds | | | |
| | Adja | cent to I-10, isolat | ted hydrologically | | | | |
| Assessment area description | | | | | | | |
| | | Small depression | nal wetland | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ring the relative rarity in | relation to the regional | |
| | I-10 | | Not unique | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, wate | r storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for sma amphibians. | ગી mammals, resident s | ongbirds, and | NA | | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire | ctly observed, or a | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | |
| | | | None | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | ∍(s): | | | |
| A Wickman and N Calhoun | | | 2/7/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-154 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/7/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The location of the wetland is adjacent to Interstate I-10 to the south and unimproved pastures to the east, west, and north. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small, isolated depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and unimproved pastures. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover includes 2. Benthic Community cassine holly and wetland sedges and grasses. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.306 = 0.040 with w/o pres Adjusted mitigation delta = 0.63 0.5

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

0.13

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

| Site/Project Name Application Num | | | er Assessment Area Name or Number | | | or Number | |
|---|--------------------------|-------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency C | Connection | | | | W-E | E-155 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 621 | | Cypress | | | | | |
| Basin/Watershed Name/Number A HUC 10 Alligator Creek-Aucilla River | ffected Waterbody (Clas | :s) | Special Classificati | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| Geographic relationship to and hydro | logic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | Adjacent to I-10, | , connected hydrc | blogically by interst | ate cu | ılvert | | |
| Assessment area description | | | | | | | |
| | The | depressional wetl | land with cypress | | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| ŀ | I-10 | | Not unique | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, water | storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for small amphibians. | l mammals, resident s | ongbirds, and | NA | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | l other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | | None | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| A Wickman and N Calhoun | | | 2/7/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-155 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/7/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by coniferous plantations and I-10 to the south. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and coniferous plantations. w/o pres or current with 6 6 .500(6)(c)Community structure Appropriate vegetation which includes bald cypress with red maple and slash pine. Understory includes sweet 1. Vegetation and/or gallberry and fetterbush. Groundcover includes wetland sedges and grasses, such a Xyris and beakrush. The 2. Benthic Community eastern and western perimeters have been cut over and revegetated with ruderal species. v/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.296 = 0.038 with w/o pres Adjusted mitigation delta = 0.63 0.5 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name | Project Name Application Number | | | Assessment Area Name or Number | | |
|--|-----------------------------------|---|---------------------|--------------------------------|---------------------|-------------|
| North Florida Resilie | ncy Connection | | | | W-EE-155 | |
| Impact or Mitigation | mpact or Mitigation Assessment of | | | Assessment date: | | |
| Pole Location | n Impact | A. Wickman and N. Ca | N. Calhoun 2/7/2019 | | | |
| | • | | | | | (*) |
| Scoring Guidance The scoring of each | Optimal (10) | Moderate(7) Condition is less than | Mi | nimal (4) | Not Present | : (0) |
| indicator is based on what | Condition is optimal and fully | | Minimal le | evel of support of | Condition is insut | fficient to |
| would be suitable for the | supports wetland/surface | maintain most | | l/surface water | provide wetland | |
| type of wetland or surface water assessed | water functions | wetland/surface water functions | fi | unctions | water functi | ons |
| water assessed | | TUTICUOTS | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 6 0 .500(6)(b)Water Environment (n/a for uplands) | The depressio | nal wetland is surrounded by c | coniferous p | lantations and I-10 |) to the south. | |
| (n/a for uplands) w/o pres or current with 6 0 | The wetland is a small dep | ressional wetland. The hydrolo south and conifer | | | construction of I-1 | 0 to the |
| .500(6)(c)Community structure 1. Vegetation and/or 1. Vegetation and/or 2. Benthic Community w/o pres or current 7 0 | | | | | | |
| | | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitig | ation, | | For impact assess | sment areas | |
| uplands, divide by 20) | Preservation adjustmer | nt factor = | | | | |
| current pr w/o pres with | | | FL = | delta x acres = | | |
| 0.63 0 | Adjusted mitigation del | ta = | | | | |
| 0.00 | | | | | | |
| | If mitigation |] | | | | |
| Delta = [with-current] | Time lag (t-factor) = | | F | or mitigation asse | ssment areas | |
| | (1-1actor) - | | | - dolto//t ft- | | |
| | Risk factor = | | REG | = delta/(t-factor x | risk) = | |
| | - | | | | | |

| Site/Project Name | Application Number | ber Assessment Area Name or Number | | | or Number | | | |
|--|--------------------------|------------------------------------|--|-----------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency Connection | | | | | W-EE-159 | A | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 630 | We | tland Forested M | ixed | | | | | |
| | | | • | | | | | |
| Basin/Watershed Name/Number Af HUC 10 Alligator Creek-Aucilla | ffected Waterbody (Clas | ss) | Special Classificati | ON (i.e.0 | DFW, AP, other local/state/federal | designation of importance) | | |
| River | 3 | | | | | | | |
| Geographic relationship to and hydro | logic connection with | wetlands, other s | urface water, uplai | nds | | | | |
| | | Adjacent to | o I-10 | | | | | |
| Assessment area description | | | | | | | | |
| | De | epressional wetlar | nd with cypress | | | | | |
| | | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | |
| ŀ | -10 | | Not unique | | | | | |
| | | | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | | |
| Water quality, water s | storage, wildlife habita | at | NA | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Provides habitat and refuge for small | mammals and reside | ent songbirds. | NA | | | | | |
| Observed Evidence of Wildlife Utiliza | tion (List species dire | ctly observed, or | l other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | |
| | | | Neze | | | | | |
| | | | None | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| A Wickman and N Calhoun | | | 2/7/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-159A Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/7/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by coniferous plantations and I-10 to the south. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) The wetland is a depressional wetland. The hydrology has been impacted by silvicultural practices. w/o pres or current with 6 6 .500(6)(c)Community structure Community structure has been altered by silvicultural practices. Dominant species include loblolly pine (planted), 1. Vegetation and/or sweetbay, and red maple. Understory included fetterbush (Lyonia lucida). Groundcover is non existent and consists of 2. Benthic Community needle fall. n/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.469 = 0.047 with w/o pres Adjusted mitigation delta = 0.53 0.43 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) = 0.1 Risk factor =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)
PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | oplication Number Assessment Area Name or Number | | | |
|---|--|---------------------------------------|--|---------------------|--|--|
| North Florida Resilie | ency Connection | | | W-EE-159A | | |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date | : | |
| Pole Location | n Impact | A. Wickman and N. Ca | lhoun | | 2/7/2019 | |
| | | | | | · · · - | |
| Scoring Guidance The scoring of each | Optimal (10) | Moderate(7) Condition is less than | Mir | nimal (4) | Not Present (0) | |
| indicator is based on what | Condition is optimal and fully | optimal, but sufficient to | Minimal level of support of | | Condition is insufficient to | |
| would be suitable for the type of wetland or surface | supports wetland/surface water functions | maintain most wetland/surface | | surface water | provide wetland/surface water functions | |
| water assessed | | waterfunctions | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 4 0 .500(6)(b)Water Environment (n/a for uplands) | The depressio | nal wetland is surrounded by c | coniferous pla | antations and I-10 |) to the south. | |
| w/o pres or current with 6 0 | current with | | | | | |
| .500(6)(c)Community structure .500(6)(c)Community structure Vegetation and/or 2. Benthic Community Community structure has been altered by silvicultural practices. Dominant species include loblolly pine (planted sweetbay, and red maple. Understory included fetterbush (Lyonia lucida). Groundcover is non existent and consist of needle fall. w/o pres or current with 6 0 | | | | | | |
| | | 1 | · · · · · | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | If preservation as mitiga | ation, | | For impact asses | sment areas | |
| current or w/o pres with 0.53 0 | Preservation adjustmer Adjusted mitigation delt | | FL = 0 | delta x acres = | | |
| | If mitigation | | · · · · · | | | |
| Delta = [with-current] | Time lag (t-factor) = | | F | or mitigation asse | ssment areas | |
| . , | | | RFG : | = delta/(t-factor x | risk) = | |
| | Risk factor = | | | , | | |

| Site/Project Name Ap | | Application Numbe | ber Assessment Area Name or Number | | | or Number |
|---|-----------------------------|--------------------|--|------------|------------------------------------|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-160 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 630 | We | atland Forested Mi | ixed | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla | Affected Waterbody (Clas | ss) | Special Classification | ion (i.e.C | OFW, AP, other local/state/federal | designation of importance) |
| River | 3 | | | | | |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | | Adjacent to | o I-10 | | | |
| Assessment area description | | | | | | |
| | De | epressional wetlan | าd with cypress | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10 | | | Not unique | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | ; |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for sma | all mammals and reside | nt songbirds. | NA | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | l other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | | None | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/7/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-160 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/7/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by coniferous plantations and I-10 to the south. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) The wetland is a depressional wetland. The hydrology has been impacted by silvicultural practices. w/o pres or current with 6 6 .500(6)(c)Community structure Community structure has been altered by silvicultural practices. Dominant species include loblolly pine (planted), 1. Vegetation and/or sweetbay, and red maple. Understory included fetterbush (Lyonia lucida). Groundcover is non existent and consists of 2. Benthic Community needle fall. n/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.13 = 0.013 with w/o pres Adjusted mitigation delta = 0.53 0.43 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) = 0.1 Risk factor =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Numbe | er | | Assessment Area Name | or Number |
|---|---------------------------|-------------------|--|----------|------------------------------------|----------------------------|
| North Florida Resiliency | Connection | | | | W-E | E-161 |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| | | | | шрас | t or miligation Site? | Assessment Area Size |
| 613 | | Gum Swamps | | | | |
| | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e. | OFW, AP, other local/state/federal | designation of importance) |
| HUC 10 Alligator Creek/Aucilla River | eek/Aucilla 3 | | | | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, uplai | nds | | |
| | | Adjacent to | o I-10 | | | |
| Assessment area description | | | | | | |
| The wetland is partially planted pine | | | e understory, mos /etland, drains und | | | ater ditch is adjacent to |
| 5 | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10, Planted pine, ponded water is on I-10 | | | not unique | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 |
| Minimal Water quality, v | water storage, wildlife h | abitat | NA | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| deer, reptiles, | raccoon, opossum | | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): |
| | | | | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| Elva Peppers | | | 2/12/2019 | | | |



PART II - Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

| Site/Project Name | | Application Numbe | er Assessment Area Name or Number | | | or Number | |
|---|--------------------------|-------------------|--|----------|------------------------------------|----------------------------|--|
| North Florida Resiliency C | Connection | | | | W-EI | E-162 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | <i>v</i> oods | | | | |
| | <u></u> | | T | | | | |
| Basin/Watershed Name/Number A HUC 10 Alligator Creek-Aucilla | ffected Waterbody (Clas | is) | Special Classificati | on (i.e. | OFW, AP, other local/state/federal | designation of importance) | |
| River | 3 | | | | | | |
| Geographic relationship to and hydro | logic connection with | wetlands, other s | urface water, upla | nds | | | |
| | | Adjacent to | o I-10 | | | | |
| Assessment area description | | | | | | | |
| | | ! | المعافدت التعام | | | | |
| | De | epressional botto | mlana wetiana | | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | | |
| | 40 | | | | Naturiauo | | |
| I-10 | | | Not unique | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use |) | |
| Water quality, water | storage, wildlife habita | at | | | NA | | |
| | | | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for mami resident songbirds, reptiles, and amp | | oodpeckers, | NA | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | | | | | | |
| | | None | ÷ | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| A Wickman and N Calhoun | | | 2/12/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-162 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/12/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The location of the wetland is adjacent to Interstate I-10. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is bottomland swamp. The hydrology has been impacted by the construction of I-10 to the south and coniferous plantations to the east. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover includes 2. Benthic Community loblolly bay, sweet gallberry and wetland sedges and grasses. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres =0.14 x 0.599 = 0.084 with w/o pres Adjusted mitigation delta = 0.67 0.53 If mitigation

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.14

For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | | Assessment Area | ssessment Area Name or Number | |
|---|--|--|-------------|---------------------|-------------------------------|---------|
| North Florida Resilier | ncy Connection | | | | W-EE-162 | |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date | 2: | |
| Pole Location | n Impact | A. Wickman and N. Ca | houn | | 2/12/2019 | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present (| 0) |
| The scoring of each indicator is based on what | Condition is optimal and fully | Condition is less than optimal, but sufficient to | Minimal le | evel of support of | Condition is insuffic | ient to |
| would be suitable for the | supports wetland/surface | maintain most | | /surface water | provide wetland/su | |
| type of wetland or surface | water functions | wetland/surface | fu | unctions | water functions | s |
| water assessed | | waterfunctions | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or current with | | The location of the wetland is | adjacent to | o Interstate I-10. | | |
| 6 0 | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7 0 .500(6)(c)Community structure | The wetland is bottomland i | swamp. The hydrology has be coniferous plantat | | | on of I-10 to the south | n and |
| 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover include loblolly bay, sweet gallberry and wetland sedges and grasses. w/o pres or with 7 0 | | | | | | ncludes |
| | 17 11 11 | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | If preservation as mitiga | ation, | | For impact asses | sment areas | |
| current or w/o pres with 0.67 0 | Preservation adjustmer Adjusted mitigation delt | | FL = 0 | delta x acres = | | |
| | | | | | | |
| | If mitigation | | F | or mitigation asse | essment areas | |
| Delta = [with-current] | Time lag (t-factor) = | | | | | |
| | Risk factor = | | RFG | = delta/(t-factor x | risk) = | |

| Site/Project Name | | Application Number | er Assessment Area Name or Number | | | or Number |
|---|-----------------------------|--------------------|--|-----------|------------------------------------|----------------------------|
| North Florida Resiliency | / Connection | | | | W-EF | E-163 |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 617 | Mixe | ed Wetland Hardw | loods | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Class | ss) | Special Classificati | ON (i.e.0 | OFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | | Adjacent to | o I-10 | | | |
| Assessment area description | | | | | | |
| | | Depressional | wetland | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10 | | | Not unique | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 3 |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for ma resident songbirds, reptiles, and ar | | oodpeckers, | NA | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | None | 3 | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/12/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-163 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/12/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The location of the wetland is adjacent to Interstate I-10. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small, isolated, circular depression. No hydrological connection was observed. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, loblolly bay, swamp bay, and water oak. No understory. 2. Benthic Community Groundcover included wetland ferns and grasses. No benthic habitat. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.0029 = 0.0004 with w/o pres Adjusted mitigation delta = 0.63 0.5 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | or Number |
|--|--|---------------------|--|-----------|-----------------------------------|------------------------------|
| North Florida Resiliency | y Connection | | | | W-EE-164A | λ |
| FLUCCs code | Further classifica | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 611 | | Bay Swamps | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ss) | Special Classificatio | ON (i.e.C | DFW, AP, other local/state/federa | I designation of importance) |
| Geographic relationship to and hyd | drologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | Adjacent to | o I-10 and larger I | bay swamp to the r | north | | |
| Assessment area description | | | | | | |
| | | Depressional b | ay swamp | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10 | | | Somewhat due to connection to large the bottomland swamp to the north. | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | e |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for ma birds, raptors, woodpeckers, reptile | | and deer), wading | J NA | | | |
| Observed Evidence of Wildlife Util | lization (List species dire Numerous songbirds, | | | | | nests, etc.): |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | (s): | | |
| A Wickman and N Calhoun | | | 2/5/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-164A Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/5/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10 and a farm road. The wetland is part of a significant bottomland swamp to the north. w/o pres or current with 8 8 .500(6)(b)Water Environment (n/a for uplands) The wetland is bottomland swamp. The hydrology has been impacted by the construction of I-10 to the south and the farm road to the north. The wetland is part of a large bottomland system to the north. w/o pres or current with 8 8 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and loblolly bay. A low percentage of Japanese climbing 2. Benthic Community fern was observed. w/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 7.182 = 1.221 with w/o pres Adjusted mitigation delta = 0.80 0.63 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.17

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | or Number |
|--|--|---------------------|--|-----------|------------------------------------|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-164B | |
| FLUCCs code | Further classifica | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size |
| 611 | | Bay Swamps | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.C | OFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | Adjacent tr | o I-10 and larger I | bay swamp to the ı | north | | |
| Assessment area description | | | | | | |
| | | Depressional b | ay swamp | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10 | | | Somewhat due to connection to large the bottomland swamp to the north. | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | ; |
| Water quality, wate | r storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for man birds, raptors, woodpeckers, reptiles | | and deer), wading | NA | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire Numerous songbirds, | | | | | nests, etc.): |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/5/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-164B Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/5/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10 and a farm road. The wetland is part of a significant bottomland swamp to the north. w/o pres or current with 8 8 .500(6)(b)Water Environment (n/a for uplands) The wetland is bottomland swamp. The hydrology has been impacted by the construction of I-10 to the south and the farm road to the north. The wetland is part of a large bottomland system to the north. w/o pres or current with 8 8 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and loblolly bay. A low percentage of Japanese climbing 2. Benthic Community fern was observed. w/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 0.686 = 0.117 with w/o pres Adjusted mitigation delta = 0.80 0.63 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

017

| Site/Project Name | | Application Number | ər | | Assessment Area Name | or Number |
|--|--|---------------------|--|-----------|------------------------------------|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-164C | ; |
| FLUCCs code | Further classifica | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size |
| 611 | | Bay Swamps | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.C | OFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | Adjacent to | o I-10 and larger I | bay swamp to the ı | north | | |
| Assessment area description | | | | | | |
| | | Depressional b | ay swamp | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10 | | | Somewhat due to connection to large the bottomland swamp to the north. | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | ; |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for man birds, raptors, woodpeckers, reptiles | | and deer), wading | NA | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire Numerous songbirds, | | | | | nests, etc.): |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/5/2019 | | | |

| Site/Project Name | | Application Number | Assessment Are | ea Name or Number |
|--|---|--|--|-------------------------------|
| North Florida Resilie | ency Connection | | W-EI | E-164C |
| Impact or Mitigation | | Assessment conducted by: | Assessment da | te: |
| | | A. Wickman and N. Ca | lhoun | 2/5/2019 |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minimal (4) | Not Present (0) |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions | Condition is insufficient to provide wetland/surface water functions | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 8 8 | The wetland is located adja | acent to Interstate I-10 and a fa | | t of a significant bottomland |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8 8 | | wamp. The hydrology has beer the north. The wetland is part | | |
| .500(6)(c)Community structure 1. Vegetation and/or | | | | |
| 2. Benthic Community w/o pres or current with 8 3 | Appropriate vegetation which | n includes red maple, sweetbay fern was o | | entage of Japanese climbin |
| Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.80 0.63 | If preservation as mitiga Preservation adjustmer Adjusted mitigation delt | nt factor = | For impact asse FL = delta x acres = 0.1 | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = | | For mitigation ass | essment areas |

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.17

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | As | Assessment Area Name or Number | | |
|--|---|--|---------------------------------------|---|--|--|
| North Florida Re | esiliency Connection | | | W-EE-164A/164B/1 | | |
| Impact or Mitigation | | Assessment conducted by: | As | sessment date | | |
| Pole Loo | ation Impact | A. Wickman and N. Ca | lhoun | 2/5/2019 | | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minim | nal (4) | Not Present (0) | |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions | Minimal level wetland/sui funct | rface water | Condition is insufficient to provide wetland/surface water functions | |
| .500(6)(a) Location and Landscape Support w/o pres or current wit 8 0 | :h | acent to Interstate I-10 and a fa swamp to t | | vetland is part o | of a significant bottomland | |
| .500(6)(b)Water Environme (n/a for uplands) w/o pres or current wit 8 0 | The wetland is bottomland sv farm road to | wamp. The hydrology has beer the north. The wetland is part o | | | | |
| .500(6)(c)Community struct 1. Vegetation and/or 2. Benthic Community w/o pres or <u>current</u> 8 | Appropriate vegetation v | vhich includes red maple, swee climbing fern w | | blly bay. A low p | ercentage of Japanese | |
| | | | | | | |
| Score = sum of above scores/3(uplands, divide by 20) current pr w/o pres 0.80 | Preservation adjustme | nt factor = | | r impact assess a x acres = | sment areas | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = Risk factor = | | | mitigation asse: lelta/(t-factor x ı | | |
| Form 62-345.900(2), F.A.C. [| effective date 02-04-2004] | | | | | |

| Site/Project Name | 1 | Application Numbe | er Assessment Area Name or Number | | | or Number |
|---|----------------------------|---------------------|--|----------|------------------------------------|----------------------------|
| North Florida Resiliency | Connection | | | | W-EI | E-166 |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 617 | Mixe | ed Wetland Hardw | voods | | | |
| | <u> </u> | | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla | Affected Waterbody (Clas | s) | Special Classification | on (i.e. | OFW, AP, other local/state/federal | designation of importance) |
| River | 3 | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | | Adjacent to | o I-10 | | | |
| Assessment area description | | | | | | |
| | D | epressional bottor | mland wetland | | | |
| | 2. | 5p1033i01i0i 50ttoi | | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| I-10 | | | | | Not unique | |
| 1-10 | | | | | Hot uniquo | |
| Functions | | | Mitigation for prev | vious | permit/other historic use |) |
| Water quality, water | r storage, wildlife habita | at | | | NA | |
| | | | | · | | 1 (L. Schenel |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for man resident songbirds, reptiles, and am | | oodpeckers, | NA | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | | | | | |
| | White | e egret, deer, wild | ł hogs, songbirds | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/5/2019 | | | |

| Site/Project Name | | Application Number | Assessment | Area Name or Number | | |
|--|---|---|---------------------------------------|---|--|--|
| North Florida Res | iliency Connection | | | W-EE-166 | | |
| Impact or Mitigation | | Assessment conducted by: | Assessment | Assessment date: | | |
| | | A. Wickman and N. Ca | 2/5/2019 | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minimal (4) | Not Present (0) | | |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | Condition is less than lly optimal, but sufficient to Minimal level of support of Condition is | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 6 | The location of the wetland is | adjacent to Interstate I-10, a d waterbody and farn | | e east and west, and a manmade | | |
| .500(6)(b)Water Environmen (n/a for uplands) w/o pres or current with 8 8 | The wetland is depressional | bottomland with standing wate farm road to the north. The we | | impacted by the construction of omland swamp to the north. | | |
| .500(6)(c)Community structur 1. Vegetation and/or 2. Benthic Community w/o pres or current with 8 3 | | hich includes red maple, swee consisting of wetland | | erstory is titi with groundcover | | |
| Score = sum of above scores/30 uplands, divide by 20) current or w/o pres with 0.73 0.56 | Preservation adjustmer | nt factor = | For impact as FL = delta x acres = | 0.17 x 0.635 = 0.108 | | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = | | For mitigation a | assessment areas | | |

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.17

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | Application Number | | Assessment Area Name or Number | | | |
|--|--------------------------------|--|--------------------------------|---------------------|------------------------------|--|
| North Florida Resili | ency Connection | | | W-EE-166 | | |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date | 2: | |
| Pole Location | on Impact | A. Wickman and N. Ca | N. Calhoun 2/5/2019 | | | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present (0) | |
| The scoring of each indicator is based on what | Condition is optimal and fully | Condition is less than optimal, but sufficient to | Minimal le | evel of support of | Condition is insufficient to | |
| would be suitable for the | supports wetland/surface | maintain most | | /surface water | provide wetland/surface | |
| type of wetland or surface | water functions | wetland/surface | fu | unctions | water functions | |
| water assessed | | waterfunctions | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 6 0 | The location of the wetla | and is adjacent to Interstate I-1 manmade waterbody and | | | ne east and west, and a | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 8 0 | | l bottomland with standing wat farm road to the north. The we | | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 8 0 | Appropriate vegetation wh | nich includes red maple, sweet consisting of wetland : | | | ry is titi with groundcover | |
| | | | | | | |
| Score = sum of above scores/30 (if | f If preservation as mitig | ation, | | For impact asses | sment areas | |
| uplands, divide by 20) | Preservation adjustment | nt factor = | | | | |
| current or w/o pres with | | | FL = | delta x acres = | | |
| 0.73 0 | Adjusted mitigation del | ta = | | | | |
| | J | | | | | |
| | If mitigation | | F | or mitigation asse | ssment areas | |
| Delta = [with-current] | Time lag (t-factor) = | | | | | |
| | Risk factor = | | RFG | = delta/(t-factor x | risk) = | |
| | | | | | | |
| Form 62-345.900(2), F.A.C. [effe | ctive date 02-04-2004] | | | | | |

| Site/Project Name | | Application Number | ber Assessment Area Name or Number | | | or Number | |
|--|-----------------------------|--------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency | Connection | | | | W-E | E-167 | |
| FLUCCs code | Further classifica | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 614 | | Titi Swamps | | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Class | ss) | Special Classificati | on (i.e.C | OFW, AP, other local/state/federal | designation of importance) | |
| Geographic relationship to and hyc | drologic connection with | wetlands, other s | urface water, uplai | nds | | | |
| | | Adjacent to | o I-10 | | | | |
| Assessment area description | | | | | | | |
| | | Small, isolated | titi swamp. | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 | | | Not unique | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | 9 | |
| Water quality, wate | er storage, wildlife habita | at | | NA | | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for sm amphibians. | all mammals, resident s | ongbirds, and | NA | | | | |
| Observed Evidence of Wildlife Utili | ization (List species dire | ctly observed, or | l other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | None | ÷ | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | ;(s): | | | |
| A Wickman and N Calhoun | | | 2/5/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-167 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/5/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10, a coniferous plantation, and a farm road. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small isolated titi swamp. The hydrology has been impacted by the construction of I-10 to the south and a farm road to the north. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or No canopy, titi wetland with some standing water and high leaf litter. No benthic species observed. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.158 = 0.016 with w/o pres Adjusted mitigation delta = 0.57 0.47 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

01

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | | |
|---|---------------------------------------|--------------------|--|-----------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency (| Connection | | | | W-EI | E-169 | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | | |
| 617 | Mixe | ed Wetland Hardw | loods | | | | | |
| Basin/Watershed Name/Number A HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ;s) | Special Classificati | ON (i.e.0 | OFW, AP, other local/state/federal | designation of importance) | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| | | Adjacent to | o I-10 | | | | | |
| Assessment area description | | | | | | | | |
| | | Depressional | wetland | | | | | |
| Significant nearby features | | | Uniqueness (col landscape.) | nsider | ring the relative rarity in | relation to the regional | | |
| | I-10 | | Not unique | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | ; | | |
| Water quality, water | ⁻ storage, wildlife habita | at | NA | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Provides habitat and refuge for smal woodpeckers, resident songbirds, an | - | rds, | NA | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | | |
| Deer, pileated woodpecker, resident songbirds | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | €(s): | | | | |
| A Wickman and N Calhoun | | | 2/5/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-169 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/5/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10 and a coniferous plantation. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is depressional with standing water. The hydrology has been impacted by the construction of I-10 to the south and a farm road to the north. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple and sweetbay with an understory of titi. Groundcover consists of 2. Benthic Community wetland sedges and grasses. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.719 = 0.093 with w/o pres Adjusted mitigation delta = 0.63 0.5 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name A | | Application Number | | | Assessment Area Name or Number | | |
|--|-----------------------------|---|--|----------|------------------------------------|----------------------------|--|
| North Florida Resiliency | Connection | | | | W-E | E-170 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | voods | | | | |
| | | | | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e. | OFW, AP, other local/state/federal | designation of importance) | |
| River | 3 | | | | | | |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | A | djacent to I-10 an | id county road | | | | |
| Assessment area description | | | | | | | |
| | | Small depression | nal wetland | | | | |
| Significant nearby features | | | Uniqueness (col landscape.) | nsider | ring the relative rarity in | relation to the regional | |
| | I-10 | | Not unique | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | |
| Water quality, wate | er storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for sma amphibians. | all mammals, resident s | ongbirds, and | NA | | | | |
| Observed Evidence of Wildlife Utiliz | | ectly observed, or o songbirds, frogs, | | as trac | ks, droppings, casings, | nests, etc.): | |
| | | č | 0.2.1 | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| A Wickman and N Calhoun | | | 2/4/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-170 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/4/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10, a county road, improved pastures, and a low density residential community. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and improved pastures/low density residential communities to the north. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, bald cypress and sweetbay. A low percentage of Japanese climbing 2. Benthic Community fern was observed. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.205 = 0.027 with w/o pres Adjusted mitigation delta = 0.63 0.5 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.13

| Site/Project Name A | | Application Number | | | Assessment Area Name or Number | | |
|---|-----------------------------|---------------------|--------------------------------|-----------|--|----------------------------|--|
| North Florida Resiliency | / Connection | | | | W-E | E-171 | |
| FLUCCs code | Further classificat | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | /oods | | | | |
| | <u></u> | | | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla | Affected Waterbody (Clas | ss) | Special Classification | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| River | 3 | <u> </u> | | | | | |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | А | Adjacent to I-10 an | id county road | | | | |
| Assessment area description | | | | | | | |
| | | Small depressio | nal wetland | | | | |
| | | | | | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| | I-10 | | | | Not unique | | |
| | | | | | - | | |
| Functions | | | Mitigation for prev | /ious | permit/other historic use | e | |
| | | | | | 210 | | |
| Water quality, wate | er storage, wildlife habita | at | | | NA | | |
| Anticipated Wildlife Utilization Base that are representative of the asses | | | | | by Listed Species (List s C), type of use, and inte | | |
| be found) | | | assessment area | | | | |
| Provides habitat and refuge for sm | all mammals, resident s | songbirds, and | | | NA | | |
| amphibians. | | - | | | NA | | |
| Observed Evidence of Wildlife Utili | | • | - | s trac | ks, droppings, casings, | nests, etc.): | |
| | | songbirds, frogs, | gray squirrel | | | | |
| | | | | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | (-) | | | |
| Assessment conducted by: A Wickman and N Calhoun | | | Assessment date 2/4/2019 | (S): | | | |
| | | | 2/4/2010 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-171 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/4/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10, a county road, improved pastures and a low density residential community. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and improved pastures/low density residential communities to the north. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and loblolly bay. A low percentage of Japanese climbing 2. Benthic Community fern was observed. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.223 = 0.029 with w/o pres Adjusted mitigation delta = 0.63 0.5 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.13

| Site/Project Name | | Application Number | ber Assessment Area Name or Number | | | or Number |
|---|---|----------------------|--|-----------|------------------------------------|----------------------------|
| North Florida Resiliency | Connection | | | | W-EI | E-172 |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 611 | | Bay Swamps | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.0 | DFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, uplar | nds | | |
| | Adja | icent to I-10 and la | arger bay swamp | | | |
| Assessment area description | | | | | | |
| | | Depressional b | ay swamp | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional |
| | I-10 | | Not unique | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 |
| Water quality, water | ⁻ storage, wildlife habita | at | NA | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Provides habitat and refuge for man birds, raptors, woodpeckers, reptiles | | and deer), wading | NA | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire Numerous songbirds, | | | | | nests, etc.): |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/4/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-172 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/4/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10, a county road, improved pastures, and a low density residential community. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small, depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and improved pastures/low density residential communities to the north. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation which includes red maple, sweetbay, and loblolly bay. A low percentage of Japanese climbing 2. Benthic Community fern was observed. w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.240 = 0.031 with w/o pres Adjusted mitigation delta = 0.63 0.5 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name Application Number | | er Assessment Area Name or Number | | | or Number | | |
|--|---|-----------------------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency | Connection | | | | W-E | E-173 | |
| FLUCCs code | Further classificat | tion (optional) | I | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 640 | Vegetate | ed Non-forested V | Vetlands | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas | ;s) | Special Classification | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | Adjacent to | ວ I-10 and larger ł | bay swamp to the r | north | | | |
| Assessment area description | | | | | | | |
| | Herbaceo | us portion of a de | epressional bay swa | amp | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ring the relative rarity in | relation to the regional | |
| I-10 | | | Somewhat due to connection to large the bottomland swamp to the north. | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | e | |
| Water quality, wate | r storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for man birds, raptors, woodpeckers, reptiles | • | ind deer), wading | NA | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dired Numerous songbirds, | | | | | nests, etc.): | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | ;(s): | | | |
| A Wickman and N Calhoun | | | 2/4/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-173 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/4/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10 and a farm road. The wetland is part of a significant bottomland swamp to the north. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The hydrology has been impacted by the construction of I-10 to the south and the transection of a transmission line and right of way. The wetland is part of a large bottomland system to the north. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate herbaceous vegetation was oberserved with the transmission right of way. 2. Benthic Community w/o pres or with current 7 7 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.70 0.70 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | Assessment A | rea Name or Number |
|--|--|---|---|--|
| North Florida Res | iliency Connection | | | W-EE-173 |
| Impact or Mitigation | | Assessment conducted by: | Assessment da | ate: |
| Pole Loca | tion Impact | A. Wickman and N. Ca | lhoun | 2/4/2019 |
| | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minimal (4) | Not Present (0) |
| The scoring of each indicator is based on what would be suitable for the | Condition is optimal and fully supports wetland/surface | maintain most | Minimal level of support of wetland/surface water | provide wetland/surface |
| type of wetland or surface water assessed | water functions | wetland/surface waterfunctions | functions | water functions |
| | | Waterranetterie | | |
| .500(6)(a) Location and Landscape Support w/o pres or current with 7 0 | The wetland is located adja | acent to Interstate I-10 and a fa | | rt of a significant bottomland |
| .500(6)(b)Water Environmen (n/a for uplands) w/o pres or current with 7 0 | The wetland is bottomland sv | wamp. The hydrology has beer on line and right of way. The w | | on of I-10 to the south and the omland system to the north. |
| .500(6)(c)Community structur 1. Vegetation and/or 2. Benthic Community w/o pres or current with 7 0 | Appropriate vegetation v | vhich includes red maple, swee Appropriate herbaceous vege | | |
| | | | | |
| Score = sum of above scores/30 uplands, divide by 20) | (if If preservation as mitig | ation, | For impact ass | essment areas |
| current or w/o pres with | Preservation adjustmen Adjusted mitigation del | | FL = delta x acres = | |
| 0.70 0.00 | | | L | |
| - | If mitigation | | | |
| Delta = [with current] | | | For mitigation as | sessment areas |
| Delta = [with-current] | Time lag (t-factor) = | | RFG = delta/(t-factor | x risk) = |
| Form 62-345.900(2), F.A.C. [ef | fective date 02-04-20041 | I | | |
| | | | | |

| Site/Project Name | Application Numbe | ər | | Assessment Area Name or Number | | |
|---|--|--|------------------|-----------------------------------|------------------------------|--|
| North Florida Resiliency Connection | | | | W-E | E-173_1 | |
| FLUCCs code Further class | sification (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 611 Bay | y Swamps | | | | | |
| Basin/Watershed Name/Number Affected Waterbody | (Class) | Special Classification | on (i.e.0 | DFW, AP, other local/state/federa | l designation of importance) | |
| HUC 10 Alligator Creek-Aucilla River | 3 | | | | | |
| Geographic relationship to and hydrologic connection | with wetlands, other se | urface water, uplar | nds | | | |
| Adjac | cent to I-10 and larger b | bay swamp to the r | north | | | |
| Assessment area description | | | | | | |
| Herb; | aceous portion of a de | pressional bay swa | amp | | | |
| Significant nearby features | | Uniqueness (cor landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 | | Somewhat due to connection to large the bottomland swamp to the north. | | | | |
| Functions | | Mitigation for prev | vious | permit/other historic us | e | |
| Water quality, water storage, wildlife h | nabitat | NA | | | | |
| Anticipated Wildlife Utilization Based on Literature Ret that are representative of the assessment area and re be found) | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for mammals (including b birds, raptors, woodpeckers, reptiles and amphibians. | , - | NA | | | | |
| Observed Evidence of Wildlife Utilization (List species Numerous songb | s directly observed, or objectively observed, or objectively birds, raptors and wood | | | | nests, etc.): | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | Assessment date | (s) [.] | | | |
| A Wickman and N Calhoun | | 2/4/2019 | (0). | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-173_1 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/4/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10 and a farm road. The wetland is part of a significant bottomland swamp to the north. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The hydrology has been impacted by the construction of I-10 to the south and the transection of a transmission line and right of way. The wetland is part of a large bottomland system to the north. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate herbaceous vegetation was oberserved with the transmission right of way. 2. Benthic Community w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13x0.403 = 0.052 with w/o pres Adjusted mitigation delta = 0.70 0.57 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name Application Numb | | Application Numbe | er Assessment Area Name or Number | | | or Number | |
|---|--|---------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency (| Connection | | | | W-EI | E-173_3 | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 611 | Bay Swa | amps | | | - | | |
| | | | | | | | |
| Basin/Watershed Name/Number A HUC 10 Alligator Creek-Aucilla | Affected Waterbody (Clas | s) | Special Classificati | on (i.e.0 | OFW, AP, other local/state/federal | designation of importance) | |
| River | 3 | | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | Adjacent to | o I-10 and larger I | bay swamp to the r | north | | | |
| Assessment area description | | | | | | | |
| | Herbaceo | us portion of a de | pressional bay sw | amp | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| | I-10 | | Somewhat due to connection to large the bottomland swamp to the north. | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | |
| Water quality, water | r storage, wildlife habita | at | | NA | | | |
| Anticipated Wildlife Utilization Basec that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for mam birds, raptors, woodpeckers, reptiles | • • | ınd deer), wading | NA | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species direc Numerous songbirds, | | | | | nests, etc.): | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| A Wickman and N Calhoun | | | 2/4/2019 | | | | |
Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-173_3 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman and N. Calhoun 2/4/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The wetland is located adjacent to Interstate I-10 and a farm road. The wetland is part of a significant bottomland swamp to the north. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The hydrology has been impacted by the construction of I-10 to the south and the transection of a transmission line and right of way. The wetland is part of a large bottomland system to the north. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate herbaceous vegetation was oberserved with the transmission right of way. 2. Benthic Community w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.13 x 0.323 = 0.042 with w/o pres Adjusted mitigation delta = 0.70 0.57 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) =

PART II - Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | |
|--|--|--------------------------------|--|-----------------------------|------------------------------------|----------------------------|--|
| North Florida Resiliency | y Connection | | | | W-EE | -175A | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamp | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e. | OFW, AP, other local/state/federal | designation of importance) | |
| | Class | 3 | | | None | | |
| Geographic relationship to and hyc | drologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| Bay swamp with | n Gordonia on edge - hea | adwater. Lyonia lı | ucida, llex coriacea | a shru' | bs with gordonia on ups | lope. | |
| Assessment area description | | | | | | | |
| | Vegetation is typ | oical of a bayhead | I - headwater to Au | ıcilla F | River. | | |
| Significant nearby features | | Uniqueness (con landscape.) | nsider | ring the relative rarity in | relation to the regional | | |
| I-10 | Bay swamp headwaters are unique ecologically and hydrologically. | | | | | | |
| Functions | | Mitigation for prev | vious | permit/other historic use |) | | |
| Widlife, flood attenuation/s | storage. Filtering runoff | from I-10 | | | None | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Raccoo | on, deer, birds. | | None | | | | |
| Observed Evidence of Wildlife Utili | ization (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | | | | | | |
| | | None | ; | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | ;(s): | | | |
| Erik Oien | | | 2/7/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-175A Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/7/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support With the exception of DOT ROW to the south, this wetland is high quality and typical of a bay head - seepage slope spp. Upland needs burning. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) Head water - very valuable. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Bay swamp to the north - headwater with loblolly bay on slope south of bay swamp. Ilex coriaceae, lyonia licuda, no 2. Benthic Community exotics. Typical native vegetation appropriate for area. w/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 1.626 = 0.276 with w/o pres Adjusted mitigation delta = 0.73 0.56

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

0.17

If mitigation

Risk factor =

Time lag (t-factor) =

FPL 036398 20210015-EI

For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | / | Assessment Area Name or Number | | | |
|--|-------------------------------------|---|--------|--------------------------------|---|--------|--|
| North Florida F | esiliency Connection | | | W-EE-175A | | | |
| Impact or Mitigation | | Assessment conducted by: | / | Assessment date: | | | |
| Pole Lo | cation Impact | Erik Oien | | | 2/7/2019 | | |
| | | • | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Min | imal (4) | Not Present (0 |)) | |
| The scoring of each | | Condition is less than | | | | | |
| indicator is based on what | Condition is optimal and fully | | | el of support of | Condition is insufficie | | |
| would be suitable for the | supports wetland/surface | maintain most | | surface water | provide wetland/sur | | |
| type of wetland or surface water assessed | water functions | wetland/surface water functions | tur | nctions | water functions | 5 | |
| water assessed | | Turicuoris | | | | | |
| | | ROW to the south, this wetlanc spp. Upland ne | | | a bay head - seepage | slope | |
| 7 | J | | | | | | |
| | ment Head water - very valuable. | | | | | | |
| .500(6)(c)Community struc 1. Vegetation and/or 2. Benthic Community w/o pres or | | adwater with loblolly bay on sl exotics. Typical native vege | | | coriaceae, Iyonia licud | ła, no | |
| | ith | | | | | | |
| | | | | | | | |
| 8 | 0 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Score = sum of above scores/3 | 0 (if If preservation as mitig | ation, | F | or impact asses | sment areas | | |
| uplands, divide by 20) | | | | • | | | |
| current | Preservation adjustme | nt factor = | _, . | | | | |
| | ith | to = | FL = d | lelta x acres = | | | |
| | Adjusted mitigation del | ia = | | | | | |
| 0.75 | , | | | | | | |
| | 11E ma (k) +' | | | | | | |
| | If mitigation | | Fo | or mitigation asse | ssment areas | | |
| Delta = [with-current] | Time lag (t-factor) = | | | - | ——————————————————————————————————————— | | |
| | | | REG = | = delta/(t-factor x | risk) = | | |
| | Risk factor = | | 11.0 - | - Gena/(L-Idoloi X | | | |
| J | L | | L | | | | |

| Site/Project Name | | Application Numbe | r | | Assessment Area Name | sessment Area Name or Number | | | |
|---|---|--------------------------------|--|----------------------------|-----------------------------------|------------------------------|--|--|--|
| North Florida Resiliency Conn | ection | | | | W-E | E-176 | | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | | |
| 630 | We | etland Forested Mi | ixed | | Impact | | | | |
| Basin/Watershed Name/Number Affecte | ed Waterbody (Clas | | Special Classificati | on (i.e.(| DFW, AP, other local/state/federa | l designation of importance) | | | |
| | Class | 3 | | | None | | | | |
| Geographic relationship to and hydrologic | connection with | wetlands, other su | urface water, uplar | nds | | | | | |
| | Hydrologically connected to surrounding wetlands. | | | | | | | | |
| Assessment area description | | | | | | | | | |
| Moderate sized inundated a | rea with high prop | ortion of titi. Adjac | cent to mixed upla | nd hai | rdwoods, transition zon | e apparent. | | | |
| Significant nearby features | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | | | | |
| I-10 | Typical habitat in area. | | | | | | | | |
| Functions | | Mitigation for prev | vious | permit/other historic us | e | | | | |
| Likely holds/receives water due to soils | and presence of c | ertain plant spp. | None | | | | | | |
| Anticipated Wildlife Utilization Based on I that are representative of the assessmen be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | | |
| Amphibians, reptiles, racco | ວon, deer, mamm | als. | None | | | | | | |
| Observed Evidence of Wildlife Utilization | (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | | |
| | | | | | | | | | |
| | | None | ! | | | | | | |
| Additional relevant factors: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Assessment conducted by: | | | Assessment date | (6). | | | | | |
| Erik Oien | | | 2/6/2019 | | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-176 Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/6/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Location likely impacted by runoff from I-10 as slope into low lying area is greater. Connects with larger wetland network to the north. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) Wetland is inundated and provides good habitat for mixed wetland plant spp. (titit swamp). Also provides good habitat for wildlife usage. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Wetland has fringe habitat with transition into mixed upland hardwood. Good mix of plant spp. In both wet and up 2. Benthic Community areas. w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.734 = 0.073 with w/o pres Adjusted mitigation delta = 0.53 0.43 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0 1

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | |
|--|--|--|------------|--------------------------------|----------------------|-------------|
| North Florida Resilie | ency Connection | | | W-EE-176 | | |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date |): | |
| Pole Location | n Impact | Erik Oien | | 2/6/2019 | | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mir | nimal (4) | Not Present | : (0) |
| The scoring of each indicator is based on what | Condition is optimal and fully | Condition is less than optimal, but sufficient to | Minimal le | vel of support of | Condition is insut | fficient to |
| would be suitable for the | supports wetland/surface | maintain most wetland/surface water | | /surface water inctions | provide wetland | |
| type of wetland or surface water assessed | water functions | functions | TU | Inctions | water functi | ons |
| | | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current with</u> 5 0 | Location likely impacted by | y runoff from I-10 as slope into network to | | ea is greater. Cor | nnects with larger v | vetland |
| .500(6)(b)Water Environment (n/a for uplands) Wetland is inundated and provides good habitat for mixed wetland plant spp. (titit swamp). Also provides good habitat for wildlife usage. | | | | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community Wo pres or current with 6 | | | | | | |
| | | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitiga | ation, | | For impact asses | sment areas | |
| uplands, divide by 20) current <u>pr w/o pres</u> with 0.53 0 | Preservation adjustmer Adjusted mitigation delt | | FL = o | delta x acres = | | |
| · · · · · | If mitigation | | | | | |
| Delta = [with-current] | Time lag (t-factor) = | For mitigation ass | | or mitigation asse | ssment areas | |
| . , | | | RFG | = delta/(t-factor x | risk) = | |
| | Risk factor = | | | - | | |

| Site/Project Name | | Application Number | ber Assessment Area Name or Number | | | or Number | |
|---|---------------------------------------|--------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency | / Connection | | | | W-EE-177A | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 631 | | Wetland Scrub | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| | Class | 3 | | | None | | |
| Geographic relationship to and hyd | drologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | Hydrologically co | onnected with wet | lands to north, eas | and | west. | | |
| Assessment area description | | | | | | | |
| | Floodplain' area arour | nd stream with FA | CW veg. Stream n | nodera | ate quality. | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 to south, | Typical habitat in area. | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use |) | |
| Runoff from I-10. Stream function: w | ns as drainage/connectio vetlands. | on to surrounding | None | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Amphibians, re | eptiles, raccoon, deer. | | None | | | | |
| Observed Evidence of Wildlife Utili | ization (List species dire | ectly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | | | | | | |
| | | None | } | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Erik Oien | | | 2/6/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-177A Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/6/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water water functions type of wetland or surface wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Floodplain' area surrounding stream. Adjacent pine flatwood upland moderate community. Receives runoff via I-10 entering low/wet areas. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) Connects with larger NWI network to the north. Unnamed stream runs north/south. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Adjacent pine flatwood community is natural habitat. Not very diverse within wetland, appears disturbed. 2. Benthic Community w/o pres or with current 4 4 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with r w/o pres Adjusted mitigation delta = 0.46 0.46 If mitigation

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

For mitigation assessment areas

| Site/Project Name | | Application Number | mber Assessment Area N | | | or Number | | |
|---|-----------------------------|-------------------------------|---|----------------------------|---------------------------|----------------------|--|--|
| North Florida Resiliency | Connection | | | | | W-EE-179 | | |
| FLUCCs code | Further classification | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 617 | Mixe | ed Wetland Hardw | | | Impact | | | |
| | Wixe | | oous | | impact | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | | |
| | Class 3 | 3 | | | None | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| Connected to upland hardwoods (was pine FW before logging of mixed pines) with dominant saw palmetto. | | | | | | | | |
| Assessment area description | | | | | | | | |
| | | Gum swamp to | the east | | | | | |
| | | Cum on ump to | | | | | | |
| Significant nearby features | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | | |
| I-10 [| Typical for the | e area | , not unique. Wetland w | ith ~3' deep water in | | | | |
| | | | center. | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | | |
| Water storage - water atte | nuation, filtering, Wildlif | e usade. | | | None | | | |
| | | 9 | | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the | | | | | |
| be found) | | | assessment area |) | | | | |
| Raccoon, deer, aligator, wa | iding birds, amphibians | , reptiles. | Center of wetland is without trees (about 25% of entire wetland with no trees). | | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | s trac | ks, droppings, casings, | nests, etc.): | | |
| | | | | | | | | |
| | | None | | | | | | |
| | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| No exotic plant spp. | | | | | | | | |
| No exolic plant spp. | | | | | | | | |
| Assessment conducted by: | | | Assessment date | (s): | | | | |
| Erik Oien | | | 2/5/2019 | | | | | |

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | | |
|--|---|--------------------------------|--|----------------------------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency | Connection | | | | W-E | E-179 | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 617 | Mixe | ed Wetland Hardw | loods | | Impact | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e. | OFW, AP, other local/state/federal | designation of importance) | | |
| | Class 3 | 3 | | | None | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| Connected to u | Connected to upland hardwoods (was pine FW before logging of mixed pines) with dominant saw palmetto. | | | | | | | |
| Assessment area description | | | | | | | | |
| | | Gum swamp to |) the east. | | | | | |
| Significant nearby features | | Uniqueness (con landscape.) | nsider | ing the relative rarity in | relation to the regional | | | |
| I-10 I | Typical for the area, not unique. Wetland with ~3' deep water in center. | | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | | |
| Water storage - water atte | nuation, filtering. Wildlif | e usage. | | | None | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Raccoon, deer, aligator, wa | ading birds, amphibians | , reptiles. | Center of wetland is without trees (about 25% of entire wetland with no trees). | | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | |
| | | None | | | | | | |
| | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| No exotic plant spp. | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| Erik Oien | | | 2/5/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-179 Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/5/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Mixed wetland hardwood next to upland mixed hardwoods (pine flatwoods with dense understory/shrub layer). w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) Clear water with some tannins from leaves. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or No exotic plant spp. Moderate diversity. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL= delta x acres = 0.1 x 0.523 = 0.052 with w/o pres Adjusted mitigation delta = 0.56 0.46 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.1

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | | Application Number | | Assessment Area Name or Number | | | |
|-------------------------------|------------------|--|------------------------------|--------------|--------------------------------|------------------------------|--|--|
| North Florida F | Resilier | ncy Connection | | | W-EE-179 | | | |
| Impact or Mitigation | | | Assessment conducted by: | | Assessment date | ssessment date: | | |
| Pole Lo | ocation | Impact | Erik Oien | | 2/5/2019 | | | |
| | _ | | • | | • | | | |
| Scoring Guidance | | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present (0) | | |
| The scoring of each | | | Condition is less than | | | | | |
| indicator is based on what | | Condition is optimal and fully | optimal, but sufficient to | | evel of support of | Condition is insufficient to | | |
| would be suitable for the | | supports wetland/surface | maintain most | | /surface water | provide wetland/surface | | |
| type of wetland or surface | | water functions | wetland/surface water | ti | unctions | water functions | | |
| water assessed | | | functions | | | | | |
| | <u>vith</u> 0 | Mixed wetland ha | ardwood next to upland mixed | hardwoods | (pine flatwoods ne | eeding burning). | | |
| w/o pres or current w | vith 0 | Clear water with some tannic acid from leaves. | | | | | | |
| | | | No exotic plant spp. Needs t | ourning of a | djacent upland. | | | |
| | | | | | | | | |
| Score = sum of above scores/3 | 30 (if | If preservation as mitigation | ation. | | For impact asses | sment areas | | |
| uplands, divide by 20) | (| | | | | | | |
| | | Preservation adjustmer | nt factor = | | | | | |
| current | vith | - | | FL = | delta x acres = | | | |
| | vith | Adjusted mitigation delt | ta = | | | | | |
| 0.6 | 0 | | | L | | | | |
| └──── ↓ | | | | | | | | |
| | | If mitigation | | | | | | |
| Delta e f. 10 - 12 | | | | F | or mitigation asse | ssment areas | | |
| Delta = [with-current] | | Time lag (t-factor) = | | | | | | |
| | | Risk factor = | | RFG | = delta/(t-factor x | risk) = | | |
| L | | | | L | | | | |

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | sment Area Name or Number | | | |
|--|---|--------------------|--|-----------|------------------------------------|----------------------------|--|--|--|
| North Florida Resiliency | Connection | | | | W-EE-180A | | | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | | | |
| 630 | We | etland Forested Mi | ixed | | Impact | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | | | |
| | Class | 3 | | | None | | | | |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other s | urface water, uplar | nds | | | | | |
| | Connected to and includes Buggs Creek, next to mixed hardwood upland. | | | | | | | | |
| Assessment area description | | | | | | | | | |
| Floodplain' of Buggs Creek. Domin | ated by OBL native ferr | າs and FACW nati | ve bamboo (Aruno | dinaria | a), canopy for sweet bay | and swamp laurel oak. | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ring the relative rarity in | relation to the regional | | | |
| I-10 75' to south. Fence ru | Typical for area/habitat. | | | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | ; ; | | | |
| Wildlife (impeeded by DOT fend | :e), filtering of runoff and | d conveyence. | None. | | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | | |
| Race | coon, deer. | | None | | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | | |
| | | | | | | | | | |
| | | None | | | | | | | |
| Additional relevant factors: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | | |
| Erik Oien | | | 2/5/2019 | | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-180A Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/5/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Adjacent to tall fence and I-10 DOT ROW. Adjacent to upland mixed hardwood forest. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) Floodplain' area surrounding stream. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or No exotics present. Good plant biodiversity for this community, especially adjacent upland mixed hardwood forest. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.112 = 0.001 with w/o pres Adjusted mitigation delta = 0.5 0.4 If mitigation

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.1

For mitigation assessment areas

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name or Number | | |
|---|-----------------------------|-------------------|--|------------|------------------------------------|------------------------------------|--|
| North Florida Resiliency | Connection | | | | W-EE-1 | 80B | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 617 | Mix | ked Wetland Hard | woods | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federal | designation of importance) | |
| | Class | 3 | | | None | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, upla | nds | | | |
| | Connected to and inclu | udes Buggs Cree | k, next to mixed h | ardwo | od upland. | | |
| Assessment area description | | | | | | | |
| Floodplain' of Buggs Creek. Domin | ated by OBL native fern | is and FACW nati | ve bamboo (Aruno | dinaria | ı), canopy for sweet bay | [,] and swamp laurel oak. | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 75' to south. Fence ru | Typical for area/habitat. | | | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | Ş | |
| Wildlife (impeeded by DOT fend | e), filtering of runoff and | d conveyence. | None. | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Racc | coon, deer. | | None | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | |
| | | | | | | | |
| | | None | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Erik Oien | | | 2/5/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-180B Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/5/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Adjacent to tall fence and I-10 DOT ROW. Adjacent to upland mixed hardwood forest. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) Floodplain' area surrounding stream. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or No exotics present. Good plant biodiversity for this community, especially adjacent upland mixed hardwood forest. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.078 = 0.008with w/o pres Adjusted mitigation delta = 0.5 0.4 If mitigation

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.1

For mitigation assessment areas

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name or Number | | |
|--|------------------------------|--------------------|--|-----------|------------------------------------|----------------------------|--|
| North Florida Resiliency | / Connection | | | | W-EE-182 | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 630 | We | etland Forested Mi | ixed | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | | Special Classificati | on (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| | Class | 3 | | | None | | |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| | Connected to and inclu | udes Buggs Cree | k, next to mixed h | ardwo | od upland. | | |
| Assessment area description | | | | | | | |
| Floodplain' of Buggs Creek. Domin | ated by OBL native ferm | is and FACW nati | ve bamboo (Aruno | dinaria | a), canopy for sweet bay | and swamp laurel oak. | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ring the relative rarity in | relation to the regional | |
| I-10 75' to south. Fence ru | Typical for area/habitat. | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | <u>,</u> | |
| Wildlife (impeeded by DOT fend | ce), filtering of runoff and | d conveyence. | None. | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Race | coon, deer. | | None | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | | | | | | |
| | | None | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Erik Oien | | | 2/5/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-182 Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/5/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Adjacent to tall fence and I-10 DOT ROW. Adjacent to upland mixed hardwood forest. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) Floodplain' area surrounding stream. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or No exotics present. Good plant biodiversity for this community, especially adjacent upland mixed hardwood forest. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1 x 0.165 = 0.002 with w/o pres Adjusted mitigation delta = 0.5 0.4 If mitigation

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.1

For mitigation assessment areas

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name or Number | | |
|---|---------------------------|--------------------|--|------------|------------------------------------|----------------------------|--|
| North Florida Resiliency (| Connection | | | | W-EE | E-184A | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 630 | We | etland Forested Mi | ixed | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ion (i.e.(| OFW, AP, other local/state/federal | designation of importance) | |
| | Class | 3 | | | None | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, upla | nds | | | |
| Mixed upla | and intersects wetland. | . Connected with I | arger wetland com | nplex t | to the west and north. | | |
| Assessment area description | | | | | | | |
| | Inundated area with I | FACW and OBL s | spp. Stream runnin | ıg norı | rth/south. | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ring the relative rarity in | relation to the regional | |
| | Typical for area. | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 3 | |
| Drainage and runoff. Moderate | e/high potential for wild | llife usage. | | None | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Birds, fish, amphi | ibians, raccoon, deer. | | None | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | |
| | | Fish, amphi | ibians. | | | | |
| | | · • | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | ə(s): | | | |
| Erik Oien | | | 2/4/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-184A Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/4/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support North of DOT ROW - receives drainage. Adjacent/connected to large wetland complex to west/north. Also adjacent to mixed hardwood upland. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) Adjacent stream flows south. North portion of wetland inundated 6-8". Water clarity good. Moderate/high potential for wildlife usage. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Good plant diversity - native bamboo, swamp laurel oak, sweetgum. Upland mixed hardwood with some pine 2. Benthic Community adjacent. No exotics present. Moderate/high tree canopy cover. w/o pres or with current 5 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.07 x 0.405 = 0.028 with w/o pres Adjusted mitigation delta = 0.53 0.46

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

0.07

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | / | Assessment Area Name or Number | | |
|--|---|--|-------------|--------------------------------|-----------------------------------|------------|
| North Florida Res | iliency Connection | | | W-EE-184A | | |
| Impact or Mitigation | | Assessment conducted by: | / | Assessment date | : | |
| Pole Loca | tion Impact | Erik Oien | | 2/4/2019 | | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Min | imal (4) | Not Present | (0) |
| The scoring of each indicator is based on what | Condition is optimal and fully | Condition is less than optimal, but sufficient to | Minimal lev | el of support of | Condition is insuf | ficient to |
| would be suitable for the type of wetland or surface | supports wetland/surface water functions | maintain most wetland/surface water | | surface water nctions | /provide wetland water functio | |
| water assessed | water functions | functions | iui | ictions | water function | 5115 |
| | | | | | • | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current with</u> 6 0 | North of DOT ROW - receiv | es drainage. Adjacent/connect to mixed hardv | | | o west/north. Also a | adjacent |
| | | | | | | |
| .500(6)(b)Water Environmen (n/a for uplands) w/o pres or current with 5 0 | | th. North portion of wetland in for wildlife | | . Water clarity go | od. Moderate/high | potential |
| .500(6)(c)Community structur 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 0 | Good plant diversity - nal | ive bamboo, swamp laurel oal jacent. No exotics present. Mo | | | | e pine |
| | | | | | | |
| Score = sum of above scores/30 | (if If preservation as mitig | ation, | F | or impact asses | sment areas | |
| uplands, divide by 20) current or w/o pres with 0.56 0 | Preservation adjustmen Adjusted mitigation del | | FL = d | elta x acres = | | |
| | If mitigation | | Fo | or mitigation asse | ssment areas | |
| Delta = [with-current] | Time lag (t-factor) = | | | | | |
| | Risk factor = | | RFG = | e delta/(t-factor x | risk) = | |
| | | | | | | |

| Site/Project Name | | Application Number | ber Assessment Area Name or Number | | | or Number | | |
|--|--------------------------|-------------------------|--|------------|------------------------------------|----------------------------|--|--|
| North Florida Resiliency | y Connection | | | | W-EE | -184B | | |
| FLUCCs code | Further classific | cation (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | | |
| 630 | v | Vetland Forested M | ixed | | Impact | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Cl | lass) | Special Classificati | ion (i.e.(| OFW, AP, other local/state/federal | designation of importance) | | |
| | Class | s 3 | | | None | | | |
| Geographic relationship to and hyc | Irologic connection wit | ່ທ່ wetlands, other s | urface water, upla | nds | | | | |
| Mixed up | pland intersects wetlan | id. Connected with | larger wetland com | nplex t | to the west and north. | | | |
| Assessment area description | | | | | | | | |
| | Inundated area wit | th FACW and OBL s | spp. Stream runnir | ıg norı | rth/south. | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ring the relative rarity in | relation to the regional | | |
| I-10 | | | Typical for area. | | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | | |
| Drainage and runoff. Modera | ate/high potential for w | <i>v</i> ildlife usage. | | None | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Birds, fish, amp | hibians, raccoon, deer | : | | | None | | | |
| Observed Evidence of Wildlife Utili | ization (List species di | rectly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | | |
| | | | | | | | | |
| | | Fish, amph | ibians. | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | <u> </u> | | | | |
| Assessment conducted by: | | | Assessment date | ;(s): | | | | |
| Erik Oien | | | 2/4/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-184B Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/4/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface would be suitable for the provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support North of DOT ROW - receives drainage. Adjacent/connected to large wetland complex to west/north. Also adjacent to mixed hardwood upland. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) Adjacent stream flows south. North portion of wetland inundated 6-8". Water clarity good. Moderate/high potential for wildlife usage. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Good plant diversity - native bamboo, swamp laurel oak, sweetgum. Upland mixed hardwood with some pine 2. Benthic Community adjacent. No exotics present. Moderate/high tree canopy cover. w/o pres or with current 5 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.07 x 0.352 = 0.025 with w/o pres Adjusted mitigation delta = 0.53 0.46

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

0.07

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

| Site/Project Name | Application Number | er | | Assessment Area Name or Number | | | | | |
|---|--|---|--|--------------------------------|-----------------------------------|----------------------------|--|--|--|
| North Florida Resiliency Co | onnection | | W-EE- | | | E-187 | | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | | |
| 630 | We | tland Forested Mi | xed | | Impact | | | | |
| Basin/Watershed Name/Number Aff | ected Waterbody (Clas | ss) | Special Classificati | ion (i.e.C | DFW, AP, other local/state/federa | designation of importance) | | | |
| Class 3 | | | | | None | | | | |
| Geographic relationship to and hydrol | wetlands, other s | urface water, upla | nds | | | | | | |
| | W-EE-187 likely hydrolocial connection with W-EE-184A. | | | | | | | | |
| Assessment area description | | | | | | | | | |
| Area north of sloped (30%) DOT R | OW. Moderate plant | diversity - gum sv | vamp. 6" surface v | vater. | Moderate to high poten | tial for wildlife usage. | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | | |
| I-10 DOT ROW/deer fence. | | | Typical for N Florida. | | | | | | |
| Functions | | Mitigation for previous permit/other historic use | | | | | | | |
| Drainage from I-10. P | otential wildlife usage | 9. | None. | | | | | | |
| Anticipated Wildlife Utilization Based of that are representative of the assessm be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | | |
| Raccoon, d | deer, birds. | | None | | | | | | |
| Observed Evidence of Wildlife Utilizat | ion (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | | | |
| | | | | | | | | | |
| | | None | | | | | | | |
| Additional relevant factors: | | | | | | | | | |
| | | | | | | | | | |
| W-EE-187 divided from W-EE-184A b | y berm/road. | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | | |
| Erik Oien | | | 2/1/2019 | | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-187 Impact or Mitigation Assessment conducted by: Assessment date: Erik Oien 2/1/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Adjacent to sloped (30%) DOT ROW. 6' observed water, receives significant runoff and drainage. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) Open water areas - 6' water. Likely seasonal fluctuations. Slightly turbid, no films observed. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or Gum swamp, including Acer rubrum and Nyssa sylvatica biflora. 2. Benthic Community w/o pres or with current 6 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL= delta x acres = 0.1 x 0.409 = 0.041 with w/o pres Adjusted mitigation delta = 0.53 0.43 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.1

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | |
|--|---|---------------------------------------|-------------------------------------|---|--|--|
| North Florida Resilie | ency Connection | | | W-EE-187 | | |
| Impact or Mitigation | | Assessment conducted by: | essment conducted by: Assessment da | | | |
| Pole Locatio | n Impact | Erik Oien | | | 2/1/2019 | |
| | | | | | | |
| Scoring Guidance The scoring of each | Optimal (10) | Moderate(7) Condition is less than | Mir | nimal (4) | Not Present (0) | |
| indicator is based on what would be suitable for the type of wetland or surface | Condition is optimal and fully supports wetland/surface water functions | | wetland/ | vel of support of /surface water inctions | Condition is insufficient to provide wetland/surface water functions | |
| water assessed | | functions | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or current with 4 0 | ives significant ru | noff and drainage. | | | | |
| | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 6 0 | Open water area | as - 6' water. Likely seasonal fl | uctuations. S | Slightly turbid, no | films observed. | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 0 | Gu | ım swamp, including Acer rubr | um and Nys | sa sylvatica biflor | a. | |
| | , <u> </u> | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | If preservation as mitigation | ation, | | For impact asses | sment areas | |
| current pr w/o pres with 0.53 0 | Preservation adjustmer Adjusted mitigation delt | | FL = 0 | delta x acres = | | |
| · | - | | | | | |
| Delta = [with-current] | If mitigation Time lag (t-factor) = | | | or mitigation asse | | |
| | Risk factor = | | RFG | = delta/(t-factor x | risk) = | |
| Form 62-345.900(2), F.A.C. [effed | ctive date 02-04-2004] | | <u>.</u> | | | |

| Site/Project Name | Application Numbe | ber Assessment Area Name or Number | | | or Number | | | | |
|---|--|------------------------------------|--|------------|------------------------------------|----------------------------|--|--|--|
| North Florida Resiliency C | Connection | | | | W-EE | E-191A | | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | | |
| 617 | Mixe | ed Wetland Hardw | loode | | J | | | | |
| | | | | | | | | | |
| | ffected Waterbody (Clas | ss) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federal | designation of importance) | | | |
| HUC 10 Alligator Creek-Aucilla River | 3 | | | | | | | | |
| Geographic relationship to and hydro | logic connection with | wetlands, other s | urface water, uplar | nds | | | | | |
| | Flowing creek that | connects to offsit | e drainage ways <i>a</i> | and we | etlands. | | | | |
| Assessment area description | | | | | | | | | |
| | The wetland is a flowing stream and associated hardwood wetlands. | | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ring the relative rarity in | relation to the regional | | | |
| ŀ | Clear, alluvial stream with bottomland hardwoods. | | | | | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | | | |
| Water quality, water | storage, wildlife habita | at | NA | | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | | |
| Provides habitat and refuge for mami birds, raptors, woodpeckers, reptiles | · - | ınd deer), wading | Black bear, alligator, wading birds, wood stork habitat is present | | | | | | |
| | Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Numerous songbirds, raptors and woodpeckers. Mammals include white-tailed deer and gray squirrel. Several species of frogs. | | | | | | | | |
| Additional relevant factors: | | | | | | | | | |
| | | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | | |
| E and E and FELSI | 1/31/2019 | | | | | | | | |

Site/Project Name Application Number Assessment Area Name or Number North Florida Resiliency Connection W-EE-191A Impact or Mitigation Assessment conducted by: Assessment date: E and E and FELSI 1/31/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to a county road, Interstate I-10, coniferous plantations and agricultural cropland. The wetland is connected to a larger wetland community to the north and south, providing a connection of wetland habitat and green space. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) Clear, flowing stream with sandy substrate provides hydrology to the wetland communities to the north. Channel is diverted through two large box culverts under county road. w/o pres or current with 7 7 .500(6)(c)Community structure Appropriate vegetation which includes sweetbay, red maple, blackgum, with wetland sedges and grasses. A low 1. Vegetation and/or percentage of Japanese climbing fern was observed. Stream provides excellent foraging and nursery resources for 2. Benthic Community benthic species. n/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.14 x 0.038 = 0.005 with w/o pres Adjusted mitigation delta = 0.67 0.53 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.14

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | | Application Number | Assessment Area Name or Number | | | |
|--|---|--------------------------------|---|--------------------------------|---------------------|----------------------|-----------|
| North Florida | a Resilie | ncy Connection | | | W-EE-191A | | |
| Impact or Mitigation | | | Assessment conducted by: | ted by: Assessn | | ssessment date: | |
| Pole | Location | n Impact | E and E and FELS | I | | 1/31/2019 | |
| | 1 | | | | | | (|
| Scoring Guidance The scoring of each | - | Optimal (10) | Moderate(7) Condition is less than | Mi | nimal (4) | Not Present | (0) |
| indicator is based on what | | Condition is optimal and fully | optimal, but sufficient to | Minimal le | evel of support of | Condition is insuffi | icient to |
| would be suitable for the | | supports wetland/surface | maintain most | | /surface water | provide wetland/s | |
| type of wetland or surface water assessed | | water functions | wetland/surface water functions | π | unctions | water functio | ns |
| | 1 | | | | | | |
| .500(6)(a) Location and Landscape Support The wetland is located adjacent to a county road, Interstate I-10, coniferous plantations and agrin The wetland is connected to a larger wetland community to the north and south, providing a community to pres or current with 6 0 | | | | | | | |
| .500(6)(b)Water Environ (n/a for uplands) w/o pres or current 7 | Clear, flowing stream with sandy substrate provides hydrology to the wetland communities to the north. Char diverted through two large box culverts under county road. | | | | | | |
| .500(6)(c)Community str 1. Vegetation and/c 2. Benthic Communi w/o pres or current 7 | or | | ch includes sweetbay, red ma ibing fern was observed. Strea benthic s | am provides | | | |
| | | | | | | | |
| Score = sum of above score | | If preservation as mitiga | ation, | | For impact assess | sment areas | |
| uplands, divide by 20 |) | Preservation adjustmer | nt factor = | | | | |
| current | with | | | FL = | delta x acres = | | |
| or w/o pres 0.67 | 0 | Adjusted mitigation delt | a = | | | | |
| 0.07 | U | | | | | | |
| | | If mitigation | | | or mitianti | comont or | |
| Delta = [with-current | t] | Time lag (t-factor) = | | | or mitigation asse | ssment areas | |
| | - | Risk factor = | | RFG | = delta/(t-factor x | risk) = | |
| ļ | | I L | | L | | | |
| Form 62-345.900(2), F.A.C | C. [effec | tive date 02-04-2004] | | | | | |

| Site/Project Name | Application Numbe | mber Assessment Area Name or | | | or Number | | |
|--|--|------------------------------|--|----------|-----------------------------------|----------------------------|--|
| North Florida Resiliency | Connection | | W-EE-191 | | | -191B | |
| FLUCCs code | Further classification | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | voods | | | | |
| | | | | | | | |
| | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e. | OFW, AP, other local/state/federa | designation of importance) | |
| HUC 10 Alligator Creek-Aucilla River | 3 | | | | | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, upla | nds | | | |
| | Flowing creek that | connects to offsit | e drainage ways a | and we | etlands. | | |
| Assessment area description | | | | | | | |
| | The wetland is a flo | wing stream and | associated hardw | ood w | etlands. | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 | | | Clear, alluvial stream with bottomland hardwoods. | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, water | r storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for man birds, raptors, woodpeckers, reptiles | · - | and deer), wading | Black bear, alligator, wading birds, wood stork habitat is present | | | | |
| | Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Numerous songbirds, raptors and woodpeckers. Mammals include white-tailed deer and gray squirrel. Several species of frogs. | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| E and E and FELSI | | | 1/31/2019 | | | | |

Site/Project Name Application Number Assessment Area Name or Number North Florida Resiliency Connection W-EE-191B Impact or Mitigation Assessment conducted by: Assessment date: E and E and FELSI 1/31/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to a county road, Interstate I-10, coniferous plantations and agricultural cropland. The wetland is connected to a larger wetland community to the north and south, providing a connection of wetland habitat and green space. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) Clear, flowing stream with sandy substrate provides hydrology to the wetland communities to the north. Channel is diverted through two large box culverts under county road. w/o pres or current with 7 7 .500(6)(c)Community structure Appropriate vegetation which includes sweetbay, red maple, blackgum, with wetland sedges and grasses. A low 1. Vegetation and/or percentage of Japanese climbing fern was observed. Stream provides excellent foraging and nursery resources for 2. Benthic Community benthic species. n/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.1HÁx 0.€€Ï = 0.00F with w/o pres Adjusted mitigation delta = 0.67 0.51 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.1H

| Site/Project Name | Application Number | mber Assessment Area Name o | | | or Number | | |
|--|----------------------------|-----------------------------|--|--------|----------------------------|--------------------------|--|
| North Florida Resiliency | Connection | | W-EE-1 | | | E-191C | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | oods | | | | |
| | | | | | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla | Affected Waterbody (Clas | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | |
| River | 3 | | | | | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, upla | nds | | | |
| | Flowing creek that | connects to offsit | e drainage ways a | and we | etlands. | | |
| Assessment area description | | | | | | | |
| | The wetland is a flo | owing stream and | associated hardw | ood w | etlands. | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 | | | Clear, alluvial stream with bottomland hardwoods. | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Water quality, water | r storage, wildlife habita | at | NA | | | | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Provides habitat and refuge for man birds, raptors, woodpeckers, reptiles | · · | and deer), wading | Black bear, alligator, wading birds, wood stork habitat is present | | | | |
| Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Numerous songbirds, raptors and woodpeckers. Mammals include white-tailed deer and gray squirrel. Several species of frogs. | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| E and E and FELSI | 1/31/2019 | | | | | | |

Site/Project Name Application Number Assessment Area Name or Number North Florida Resiliency Connection W-EE-191C Impact or Mitigation Assessment conducted by: Assessment date: E and E and FELSI 1/31/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support The wetland is located adjacent to a county road, Interstate I-10, coniferous plantations and agricultural cropland. The wetland is connected to a larger wetland community to the north and south, providing a connection of wetland habitat and green space. w/o pres or current with 6 6 .500(6)(b)Water Environment (n/a for uplands) Clear, flowing stream with sandy substrate provides hydrology to the wetland communities to the north. Channel is diverted through two large box culverts under county road. w/o pres or current with 7 7 .500(6)(c)Community structure Appropriate vegetation which includes sweetbay, red maple, blackgum, with wetland sedges and grasses. A low 1. Vegetation and/or percentage of Japanese climbing fern was observed. Stream provides excellent foraging and nursery resources for 2. Benthic Community benthic species. n/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.14 x 0.007 = 0.001 with w/o pres Adjusted mitigation delta = 0.67 0.53 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.14

| Site/Project Name | Application Number | ber Assessment Area Name of | | | or Number | | |
|---|-------------------------------|-----------------------------|--|--------------------------|-----------------------------------|------------------------------|--|
| North Florida Resiliency | Connection | | W-EE-195A | | | E-195A | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 631 | | Wetland Scrub | | | - | | |
| | | | | | | | |
| | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e. | OFW, AP, other local/state/federa | I designation of importance) | |
| HUC 10 Alligator Creek-Aucilla River | Class 3 | 3 | | | None | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, upla | nds | | | |
| | Connecting to | o stream T01-001 | and neighboring | wetlan | nd | | |
| Assessment area description | | | | | | | |
| Shrub swamp grading in | to hardwood swamp. B | ordered by roads | to South and Wes | st. Inte | erstate I-10 with deer fe | nce to south. | |
| Significant nearby features | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | | |
| FDOT | Typical to N. Fl area | | | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Wildlife. Flood control | (depression). Filters ru | noff. | No | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Racoon, deer, birds. I | Jsual wildlife- not T&E s | spp. | None. No open canopy for wood stork. | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): | |
| Frog, spiders, wildlife burrow near stream, tadpoles. | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Team 1 | | | 2/1/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-195A Impact or Mitigation Assessment conducted by: Assessment date: 2/1/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Neighboring wetland, not isolated. Significant wildlife barriers due to I-10, fence to south and Hwy 19 to north. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) Connecting to neighboring stream and adjacent wetland. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Liquidambar styracifluca (~3" in dbh) saplings. Buttonbush, sambucus nigra, arundinaria tecta, carex spp. (wet), 2. Benthic Community Thelypteris kunthii, chasmanthium in 'floodplain' w/o pres or with current 4 4 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.43 0.43 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =
| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | | |
|---|--------------------------|----------------------|--|----------|--------------------------------|----------------------------|--|--|
| North Florida Resiliency (| Connection | | | | W-E | EE-197 | | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 630 | We | etland Forested Mi | ixed | | | | | |
| | | | 1 | <u> </u> | | | | |
| Basin/Watershed Name/Number A | Affected Waterbody (Clas | - | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | | |
| | Class | 3 | | | None | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other su | urface water, uplar | nds | | | | |
| Uplands surround on 3 sides- this is a borrow area | | | | | | | | |
| Assessment area description | | | | | | | | |
| Excavated 3- | -4 feet down, open-end | led to the north, Ic | oblolly and spruce | pine v | vith water oak dominar | nt | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsideri | ing the relative rarity in | n relation to the regional | | |
| I-10 Ramp | | | Not unique | | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic us | ie | | |
| Wate | er storage | | N/A | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Typical mammal | ls, birds and reptiles | | None | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or e | other signs such a | is trac | ks, droppings, casings | , nests, etc.): | | |
| | | | | | | | | |
| | | Armadillo b | urrow | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | ;(s): | | | | |
| Elva Peppers | | | 2/1/2019 | | | | | |



| Site/Project Name | | Application Numbe | Application Number | | | Assessment Area Name or Number | | |
|---|---|---------------------|-------------------------------|-----------|--|--------------------------------|--|--|
| North Florida Resiliency Con | nnection | | | | W-E | EE-198 | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 617 | Mixe | ed Wetland Hardw | oods | | | | | |
| Basin/Watershed Name/Number Affected Waterbody (Class) | | | Special Classificati | on (i.e.(| DFW, AP, other local/state/feder | al designation of importance) | | |
| Geographic relationship to and hydrolo | gic connection with | wetlands, other s | urface water, upla | nds | | | | |
| Adjacent to I-10, associated with stream/drain | | | | | | | | |
| Assessment area description | | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity ir | n relation to the regional | | |
| I-1 | 0 | | | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic us | se | | |
| Storage, ti | eatment | | | | | | | |
| Anticipated Wildlife Utilization Based of that are representative of the assessm be found) | | | | T, SS | y Listed Species (List C), type of use, and int | | | |
| Observed Evidence of Wildlife Utilization | n (List species dire | ctly observed, or | other signs such a | s trac | ks, droppings, casings | , nests, etc.): | | |
| | Suspected beave | r pond in area, reo | l tailed hawk obse | rved i | n area | | | |
| Additional relevant factors: | | | | | | | | |
| Some exotics, apparent beaver pond, a | Some exotics, apparent beaver pond, appers to have been excavated | | | | | | | |
| Assessment conducted by: | | | Assessment date | (s): | | | | |
| Elva Peppers | | | 2/1/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-198 Impact or Mitigation Assessment conducted by: Assessment date: 2/1/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Uplands adjacent are cutover planted pine, regenerating with volunteers w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) Abnormal conditions with beaver activity causing death of trees. Runoff from highway and adjacent field/ pine uses w/o pres or current with 4 4 .500(6)(c)Community structure 1. Vegetation and/or Forested wetland/ stream species being replaced by open water and emergent species 2. Benthic Community w/o pres or with current 5 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL= delta x acres = 0.03 x 1.404 = 0.042 with w/o pres Adjusted mitigation delta = 0.46 0.43 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.03

RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Number | Assessment Are | Assessment Area Name or Number | | | |
|--|--------------------------------|---------------------------------------|--------------------------------|--------------------------------|--|--|--|
| North Florida Resilie | ncy Connection | | | W-EE-198 | | | |
| Impact or Mitigation | | Assessment conducted by: | Assessment date | Assessment date: | | | |
| Pole Location | n Impact | | | 2/1/2019 | | | |
| | | | | | | | |
| Scoring Guidance The scoring of each | Optimal (10) | Moderate(7) Condition is less than | Minimal (4) | Not Present (0) | | | |
| indicator is based on what | Condition is optimal and fully | optimal, but sufficient to | Minimal level of support of | Condition is insufficient to | | | |
| would be suitable for the | supports wetland/surface | maintain most | wetland/surface water | provide wetland/surface | | | |
| type of wetland or surface water assessed | water functions | wetland/surface water functions | functions | water functions | | | |
| I | | | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or current with | Upland | ls adjacent are cutover planted | d pine, regenerating with volu | nteers | | | |
| 5 0 | | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 4 0 | Abnormal conditions with be | eaver activity causing death of | trees. Runoff from highway a | nd adjacent field/ pine uses | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 5 0 | Forested wetla | and/ stream species being repl | aced by open water and eme | rgent species | | | |
| | | | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitiga | ation, | For impact asses | sment areas | | | |
| uplands, divide by 20) current | Preservation adjustmer | nt factor = | FL = delta x acres = | | | | |
| br w/o pres with 0.46 0 | Adjusted mitigation delt | a = | | | | | |
| | l | | | | | | |
| | If mitigation | | For mitigation asse | essment areas | | | |
| Delta = [with-current] | Time lag (t-factor) = | | | | | | |
| Risk factor = | | | | risk) = | | | |
| Form 62-345.900(2), F.A.C. [effec | tive date 02-04-20041 | | | | | | |

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | | |
|---|---|--------------------|-------------------------------|-----------|---------------------------------|-------------------------------|--|--|
| North Florida Resiliency | Connection | | | | W-EE-198A | | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 630 | We | tland Forested M | ixed | | | | | |
| | | | | | | | | |
| Basin/Watershed Name/Number | asin/Watershed Name/Number Affected Waterbody (Class) | | | ON (i.e.(| OFW, AP, other local/state/fede | al designation of importance) | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, upla | nds | | | | |
| Very tiny drain associated with culvert under I-10 | | | | | | | | |
| Assessment area description | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity i | n relation to the regional | | |
| | | | . , | | | | | |
| | | | | | | | | |
| Functions | | | Mitigation for pre- | vious | permit/other historic u | se | | |
| | | | initigation for pro | nouo | | | | |
| Water of | conveyance | | | | | | | |
| Anticipated Wildlife Utilization Based | d on Literature Review | (List of species | Anticipated Utiliza | ation b | y Listed Species (List | species, their legal | | |
| that are representative of the assest be found) | | | | | | | | |
| | | | | | | | | |
| 1 | none | | | | | | | |
| | | | | | | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings | s, nests, etc.): | | |
| | | | | | | | | |
| | | None | 9 | | | | | |
| | _ | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| This drainage flows from culvert und | ler I-10 to small wetlan | d depression in c | ow field | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| Elva Peppers | | | 2/2/2019 | | | | | |



| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | |
|---|---------------------------|--------------------|--|-----------|----------------------------------|-------------------------------|--|
| North Florida Resiliency | Connection | | | | W-EE- | 199B/199C | |
| FLUCCs code | Further classifica | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 640 | Vegetal | ted Non-forested | Wetland | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | OFW, AP, other local/state/feder | al designation of importance) | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, uplar | nds | | | |
| This a | area should be forested | hardwood wetlan | d but maintained a | as hert | baceous wetland. | | |
| Assessment area description | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsideri | ing the relative rarity i | n relation to the regional | |
| I-10, cow pasture, dam immediately downstream | | | Not unique | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic u | se | |
| Water | conveyance | | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| | N/A | | | | | | |
| Observed Evidence of Wildlife Utili: | zation (List species dire | ctly observed, or | other signs such a | is tracl | ks, droppings, casings | s, nests, etc.): | |
| | | N/A | | | | | |
| Additional relevant factors: | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Elva Peppers | | | 2/1/2019 | | | | |



| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | | |
|--|---------------------------------------|---------------------|--------------------------------|-----------|---|-------------------------------|--|--|
| North Florida Resiliency | Connection | | | | W-E | E-200A | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 640 | Vegetat | ed Non-forested V | d Wetlands | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification | ON (i.e.C | DFW, AP, other local/state/fede | al designation of importance) | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other s | urface water, uplar | nds | | | | |
| Adjacent to I-10; This is a cleared portion of the forested wetland associated with the creek. | | | | | | | | |
| Assessment area description | | | | | | | | |
| Emergent wetland which is very wet and part of the cattle field. | | | | | | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ing the relative rarity i | n relation to the regional | | |
| I-10 and Overpass | and improved pasture | • | | | | | | |
| Functions | | | Mitigation for prev | ious | permit/other historic u | se | | |
| Water quality, water | ⁻ storage, wildlife habita | at | NA | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | | T, SSO | y Listed Species (List C), type of use, and in | | | |
| reptiles | , mammals | | | | | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire | ctly observed, or | other signs such a | s trac | ks, droppings, casings | s, nests, etc.): | | |
| | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| This area should be mixed hardwoo | d wetland but has beer | n heavily disturbed | 1 | | | | | |
| Assessment conducted by: | | | Assessment date | (s): | | | | |
| Elva Peppers | | | 2/1/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-200A Impact or Mitigation Assessment conducted by: Assessment date: Elva Peppers 2/1/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This wetland has farm pasture on one side, I-10 on another and a forested wetland on one side. w/o pres or current with 3 3 .500(6)(b)Water Environment (n/a for uplands) The hydroperiod of this wetland is severely altered by clearing, the adjacent dam and culvert and adjacent road uses w/o pres or current with 3 3 .500(6)(c)Community structure 1. Vegetation and/or There is no canopy, this should be a forested wetland. The vegetation are wetland species, but strictly emergent. 2. Benthic Community w/o pres or with current 3 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.3 0.3 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

RFG = delta/(t-factor x risk) =

| Site/Projec | t Name | | | Application Number | | Assessment Area Name or Number | | | | |
|---|------------------------------|-------------|--------------------------------|---------------------------------------|---------------|---------------------------------------|----------------------|------------|--|--|
| | North Flor | ida Resilie | ency Connection | | | W-EE-200A | | | | |
| Impact or N | Vitigation | | | Assessment conducted by: | | Assessment date | 9: | | | |
| | Po | le Locatio | n Impact | Elva Peppers | | 2/1/2019 | | | | |
| 0 a a vin | | _ | 0 | | | | Not Decent | (0) | | |
| | g Guidance | _ | Optimal (10) | Moderate(7) Condition is less than | Mi | nimal (4) | Not Present | (0) | | |
| | oring of each based on wh | at | Condition is optimal and fully | optimal, but sufficient to | Minimal le | evel of support of | Condition is insuf | ficient to | | |
| | suitable for th | | supports wetland/surface | maintain most | | /surface water | provide wetland/ | | | |
| | tland or surfa | | water functions | wetland/surface water | | unctions | water functio | | | |
| | assessed | | | functions | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| .500(6 | 6)(a) Locatior | n and | | | | | | | | |
| Lan | idscape Supp | ort | | | | | | | | |
| | | | This wetland has f | arm pasture on one side, I-10 | on another | and a forested wet | tland on one side | | | |
| | | | | ann pastare on one side, i-to | | and a lorested we | liand on one side. | | | |
| w/o pres or | | | | | | | | | | |
| current | | with | | | | | | | | |
| 3 | | 0 | | | | | | | | |
| 3 | | 0 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | b)Water Envir | | | | | | | | | |
| (n | /a for uplands | 5) | | | | | | | | |
| | | | The hydroperiod of this wetla | nd is severely altered by clear | ing, the adja | acent dam and cul | vert and adjacent r | oad uses | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| w/o pres or | | | | | | | | | | |
| current | 1 | with | 4 | | | | | | | |
| 3 | | 0 | | | | | | | | |
| | | | | | | | | | | |
| .500(6)(c | c)Community | structure | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | ., | | | | | | | | |
| | egetation and | | There is no canopy this sh | ould be a forested wetland. Th | ne vegetatio | n are wetland spe | cies but strictly em | ergent | | |
| 2. De | enthic Commu | unity | | | ie regetatio | | oloo, sur oulouj oli | o.go | | |
| | | | | | | | | | | |
| w/o pres or | | | | | | | | | | |
| current | _ | with | | | | | | | | |
| 3 | | 0 | 1 | | | | | | | |
| Ľ | | Ĵ | | | | | | | | |
| | | | | | | | | | | |
| Score = sur | m of above sco | ores/30 (if | If preservation as mitigation | ation, | | For impact asses | sment areas | | | |
| | ands, divide by | | | | | | | | | |
| current | | | Preservation adjustmer | nt factor = | | -1-14 | | | | |
| or w/o pres | | with | Adjusted mitigation date | | FL = | delta x acres = | | | | |
| 0.3 | | 0 | Adjusted mitigation delt | la – | | | | | | |
| | | - | J | | | | | | | |
| | | | If mitigation | | <u> </u> | · · · · · · · · · · · · · · · · · · · | | | | |
| Delt | a = [with-curr | entl | Time lag (t-factor) = | | F | or mitigation asse | essment areas | | | |
| Della | | ong | (1-1a0101) - | | | | | | | |
| Risk factor = RFG = delta/(t-factor x risk) = | | | risk) = | | | | | | | |
| L | | | ↓ └──── | | L | | | | | |
| Form 62-34 | 45.900(2), F.A | A.C. [effec | ctive date 02-04-2004] | | | | | | | |

| Site/Project Name A | | Application Number | | | Assessment Area Name or Number | | | |
|---|--|--------------------|--|---------|--------------------------------|--------------------------|--|--|
| North Florida Resiliency | Connection | | W-F | | W-E | E-202 | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 640 | Vegetate | ed Non-Forested \ | Wetlands | | | | | |
| Basin/Watershed Name/Number HUC 10 Aucilla River-Apalachee Bay | Affected Waterbody (Clas | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, upla | nds | | | | |
| Adjacent to county road, wet roadside ditch with culvert | | | | | | | | |
| Assessment area description | | | | | | | | |
| The depre | The depressional wetland has been timbered and is regenerating with wetland trees and shrubs | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | |
| I-10 | | | Not unique | | | | | |
| Functions | | | Mitigation for pre- | vious | permit/other historic use |) | | |
| Roadside | e runoff storage | | NA | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Low potentia | l for wildlife habitat | | NA | | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | | |
| | | | None | | | | | |
| | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| A Wickman and D. Pickett | | | 2/11/2019 | | | | | |



| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | | |
|---|---|--------------------|--|------------|-----------------------------------|------------------------------|--|--|
| North Florida Resiliency | Connection | | | | W-E | E-203 | | |
| FLUCCs code | Further classificat | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | | |
| 617 | Mixe | ed Wetland Hardw | loods | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federa | I designation of importance) | | |
| HUC 10 Lloyds Creek | 3 | | | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, upla | nds | | | | |
| Adja | Adjacent to county road. Hydrologically connected adjacent bottomland to the south. | | | | | | | |
| Assessment area description | | | | | | | | |
| The | e depressional hardwood | d wetland is surro | unded by low den | sity re | sidential areas. | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | |
| None | | | Not unique | | | | | |
| Functions | | | Mitigation for pre | vious | permit/other historic us | e | | |
| Water quality, wate | er storage, wildlife habita | at | NA | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Provides habitat and refuge for sma reptiles, wading birds and amphibia | | ongbirds, | | | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | l other signs such a | as trac | ks, droppings, casings, | , nests, etc.): | | |
| | | Beave | ۹r | | | | | |
| | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| A Wickman and N Calhoun | | | 2/12/2019 | | | | | |

| | | Application Number | Asse | Assessment Area Name or Number | | |
|---|---|--|---|--|---|--------------------|
| North Florida Resilie | ency Connection | | | W-EE-203 | | |
| mpact or Mitigation | | Assessment conducted by: | Asse | Assessment date: | | |
| | | A. Wickman and N. Ca | houn | 2 | 2/12/2019 | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minima | (4) | Not Present (| (0) |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Condition is optimal and fully supports wetland/surface water functions | maintain most wetland/ | | level of support of nd/surface water functions water functio | | cient to urface |
| .500(6)(a) Location and Landscape Support w/o pres or current with 7 7 7 | The wetland is located adjac | ent to a county road and south connected to the hardwoo | | | ne wetland is hydrolo | ogicall |
| .500(6)(b)Water Environment (n/a for uplands) | The wetland flows through tw | ro 4ft. corrugated culverts bene | ath the county ro | and Recover as | tivity bas domined t | |
| v/o pres or current with 7 7 | | rts. This is causing the wetlanc in 20 | to pond. Historic | adi beaver ad | ict the area began p | the flc ondin |
| | Appropriate vegetation which | | to pond. Historic 17. hestnut oak, blac land sedges, ferr | aerials depi :kgum and bal | ict the area began p | ondin |
| current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with | Appropriate vegetation which groundcover includes button | in 20 n includes red maple, swamp c nbush, sweet gallberry, and we ardisia and Japanese clim ation, nt factor = | to pond. Historic 17. hestnut oak, blac land sedges, ferr bing fern was ob: | xkgum and bal skgum and bal ns and grasse served. | ict the area began po Id cypress. Understo is. A small amount o | ondir |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

0.13

RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Number | As | Assessment Area Name or Number | | | |
|--|--|---|----------|----------------------------------|---|--------|--|
| North Florida Resilie | ency Connection | | | W-EE-203 | | | |
| Impact or Mitigation | | Assessment conducted by: | As | ssessment date | : | | |
| Pole Locatio | n Impact | A. Wickman and N. Ca | lhoun | 2/12/2019 | | | |
| | | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Minin | mal (4) | Not Present | (0) | |
| The scoring of each indicator is based on what would be suitable for the | Condition is optimal and fully supports wetland/surface | Condition is less than optimal, but sufficient to maintain most | | el of support of urface water | Condition is insuffi provide wetland/s | | |
| type of wetland or surface | water functions | wetland/surface water | | ctions | water function | | |
| water assessed | | functions | | | | | |
| .500(6)(a) Location and Landscape Support The wetland is located adjacent to a county road and south of a large livestock pasture. The wetland is located adjacent to the hardwood wetlands to the north. w/o pres or current with 7 0 .500(6)(b)Water Environment (n/a for uplands) The wetland flows through two 4ft. corrugated culverts beneath the county road. Beaver activity flow just upstream from the culverts. This is causing the wetland to pond. Historical aerials dep ponding in 2017. | | | | | r activity has damme | ed the | |
| w/o pres or current with 7 0 | | | | | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 1. Vegetation and/or 2. Benthic Community W/o pres or current 7 0 | | | | | | | |
| | | | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | If preservation as mitigation | ation, | Fo | or impact assess | sment areas | | |
| current or w/o pres with 0.70 0 | Preservation adjustmer Adjusted mitigation delt | | FL = del | lta x acres = | | | |
| | If mitigation | | For | mitigation asse | ssment areas | | |
| Delta = [with-current] | Time lag (t-factor) = | | | _ | | | |
| | Risk factor = | | RFG = c | delta/(t-factor x ı | risk) = | | |

| Site/Project Name Application Num | | | ber Assessment Area Name or Number | | | or Number | | |
|--|----------------------------|---------------------|--|-----------|----------------------------|--------------------------|--|--|
| North Florida Resiliency | Connection | | | W-EE-207A | | | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 611 | | Bay Swamps | | | Impact | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | | | |
| HUC 10: Lloyd Creek | Class | Class 3 | | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | urface water, uplar | nds | | | | |
| This wetland is associated with "Cooksey Branch". | | | | | | | | |
| Assessment area description | | | | | | | | |
| Concave bay swamp wetland associated with "Cooksey Branch". | | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsideri | ing the relative rarity in | relation to the regional | | |
| Highway on west side bisects the wetland. Culverts convey water to adjacent wetland on west side. Agricultural fields border the wetlands north and south sides. | | | This wetland is of decent size and is associated with "Cooksey Branch". | | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | • | | |
| Water quality, water | storage, and wildlife hat | pitat | N/A | | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| Various mammals, am | phibians, fish, birds, rep | otiles. | | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or o | other signs such a | s track | s, droppings, casings, | nests, etc.): | | |
| Various anima | al signs observed. Red- | shouldered hawks | observed near we | etland. | Beaver activity observe | ed. | | |
| Additional relevant factors: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| Joshua L. Bell | | | 2/11/2019 | | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-207A Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/11/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Wetland is bisected by highway on its west side. Water from associated "Cooksey Branch" is conveyed through culverts on its west side, altering its natural hydrology. Agricultural fields border the wetland on its north and south sides. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) 5-10 foot wide flowing tannic creek with sandy bottom. Beaver activity observed. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation for this area. Fish and crayfish observed. 2. Benthic Community w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL= delta x acres = 0.13 x 0.051 = 0.007 with w/o pres Adjusted mitigation delta = 0.63 0.50 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0 13

RFG = delta/(t-factor x risk) =

| Site/Project Name | | | Application Number | Assessment Area Name or Number | | | | | |
|---|------------|--------------------------------|--|---------------------------------|---------------------|-------------------|---------|--|--|
| North Florid | da Resilie | ency Connection | | | W-EE-207A | | | | |
| Impact or Mitigation | | | Assessment conducted by: | | Assessment date | | | | |
| Pole | e Locatio | n Impact | Joshua L. Bell | | | 2/11/2019 | | | |
| | _ | | | | | | | | |
| Scoring Guidance | _ | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present | (0) | | |
| The scoring of each indicator is based on what | at | Condition is optimal and fully | tion is optimal and fully optimal, but sufficient to Minimal level of support of Condition is in | | | | | | |
| would be suitable for the | | supports wetland/surface | maintain most | wetland | /surface water | provide wetland/s | surface | | |
| type of wetland or surface water assessed | е | water functions | wetland/surface water functions | fu | unctions | water functio | ns | | |
| water assessed | | | Turictions | | | | | | |
| .500(6)(a) Location Landscape Suppo w/o pres or <u>current</u> 5 | | | hway on its west side. Water f ering its natural hydrology. Ag side | ricultural fiel | | | | | |
| | | | | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) 5-10 foot wide flowing tannic creek with sandy bottom. Beaver activity observed. w/o pres or current with 7 0 | | | | | | | | | |
| .500(6)(c)Community s 1. Vegetation and, 2. Benthic Commun | /or | Ар | opropriate vegetation for this area. Fish and crayfish observed. | | | | | | |
| w/o pres or | | | | | | | | | |
| current | with | | | | | | | | |
| 7 | 0 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Score = sum of above scor uplands, divide by 2 | | If preservation as mitigation | ation, | | For impact asses | sment areas | | | |
| current | -, | Preservation adjustmer | nt factor = | | | | | | |
| or w/o pres | with | Adjusted mitigation delt | ta = | FL = | delta x acres = | | | | |
| 0.63 | 0.00 | , lajaoloa miligation dell | | | | | | | |
| └─── ↓ | | J | | | | | | | |
| | | If mitigation | | For mitigation assessment areas | | | | | |
| Delta = [with-curre | nt] | Time lag (t-factor) = | | | | | | | |
| | | Risk factor = | | RFG | = delta/(t-factor x | risk) = | | | |
| ļ | | 4 L | | L | | | | | |
| Form 62-345.900(2), F.A. | .C. [effec | tive date 02-04-2004] | | | | | | | |

| Site/Project Name | | Application Numbe | mber Assessment Area Name or Number | | | or Number | |
|--|--|----------------------|--|---------------------------|-----------------------------------|------------------------------|--|
| North Florida Resiliency | / Connection | | | | W-EE | -207B | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federa | l designation of importance) | |
| HUC 10: Lloyd Creek | Class | 3 | | | | | |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other su | urface water, uplar | nds | | | |
| | This wetla | and is associated v | vith "Cooksey Brai | nch". | | | |
| Assessment area description | | | | | | | |
| | Concave bay swa | amp wetland asso | ciated with "Cooks | sey Bra | anch". | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| Highway on west side bisects adjacent wetland on west side. Ag and s | This wetland is of decent size and is associated with "Cooksey Branch". | | | | | | |
| Functions | | Mitigation for prev | vious p | permit/other historic use | 9 | | |
| Water quality, water | storage, and wildlife hal | oitat | N/A | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Various mammals, arr | nphibians, fish, birds, rep | otiles. | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ectly observed, or o | l other signs such a | s track | ks, droppings, casings, | nests, etc.): | |
| Various anima | al signs observed. Red- | shouldered hawks | observed near we | etland. | Beaver activity observe | ed. | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Joshua L. Bell | | | 2/11/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-207B Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/11/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Wetland is bisected by highway on its west side. Water from associated "Cooksey Branch" is conveyed through culverts on its west side, altering its natural hydrology. Agricultural fields border the wetland on its north and south sides. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) 5-10 foot wide flowing tannic creek with sandy bottom. Beaver activity observed. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation for this area. Fish and crayfish observed. 2. Benthic Community w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL= delta x acres = 0.13 x 0.122 = 0.016 with w/o pres Adjusted mitigation delta = 0.63 0.50 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0 13

RFG = delta/(t-factor x risk) =

| Site/Project Name | Application Numbe | lumber Assessment Area | | | ea Name or Number | | |
|---|--|------------------------|--|--------------------------|----------------------------------|------------------------------|--|
| North Florida Resiliency | Connection | | | | W-EE-2 | 209 | |
| FLUCCs code | Further classifica | ation (optional) | | Impact | t or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.C | FW, AP, other local/state/federa | l designation of importance) | |
| HUC 10: Lloyd Creek | Class | 3 | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | irface water, uplar | nds | | | |
| | This we | tland is associated | l with "Lang Branc | :h". | | | |
| Assessment area description | | | | | | | |
| Concave wetland with nice ma boundaries until it reaches the | | | | | | | |
| Significant nearby features | Uniqueness (co landscape.) | nsideri | ng the relative rarity in | relation to the regional | | | |
| Highway on west side bisects t adjacent wet | This wetland is of decent size with sloping magnolia-beech forests on its north and south sides. The wetland is associated with "Lang Branch". | | | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use |) | |
| Water quality, water s | storage, and wildlife hat | pitat. | N/A | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Various mammals, am | phibians, fish, birds, rep | otiles. | | | | | |
| Observed Evidence of Wildlife Utili: | zation (List species dire | ectly observed, or o | other signs such a | s track | s, droppings, casings, | nests, etc.): | |
| Various animal signs obser | ved. Wood ducks obse | rved near wetland | and Trillium unde | erwood | ii observed on adjacent | sloped forests. | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Joshua L. Bell | | | 2/11/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-209 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell Impact 2/11/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Wetland is bisected by highway on its west side. Water from associated "Lang Branch" is conveyed through culverts on its west side. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) Flowing braided streams meander through this wetland. The canopy is opened enough to potentially be woodstork foraging habitat. Small fish were observed in deeper pools. w/o pres or current with 8 8 .500(6)(c)Community structure Appropriate vegetation for this area. Sloping beech-magnolia forests on the north and south sides of this wetland 1. Vegetation and/or contribute to the habitat diversity. Trillium underwoodii observed on the slopes and wood duck and various songbirds 2. Benthic Community were observed throughout the wetland. n/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 0.139 = 0.023 with w/o pres Adjusted mitigation delta =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

0 17

0.60

If mitigation

Risk factor =

Time lag (t-factor) =

0.77

For mitigation assessment areas

RFG = delta/(t-factor x risk) =

| Site/Project Name | Application Numbe | mber Assessment Area Name or Number | | | or Number | | |
|---|--|-------------------------------------|--|--------------------------|------------------------------------|----------------------------|--|
| North Florida Resiliency | Connection | | | | W-EE-2 | 211 | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federal | designation of importance) | |
| HUC 10: Lloyd Creek | Class | 3 | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | ırface water, uplar | nds | | | |
| | This we | tland is associated | I with "Lang Branc | :h". | | | |
| Assessment area description | | | | | | | |
| Concave wetland with nice ma boundaries until it reaches the | | | | | | | |
| Significant nearby features | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | | | |
| Highway on west side bisects t adjacent we | This wetland is of decent size with sloping magnolia-beech forests on its north and south sides. The wetland is associated with "Lang Branch". | | | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use |) | |
| Water quality, water s | storage, and wildlife hab | pitat. | N/A | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Various mammals, am | phibians, fish, birds, rep | otiles. | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or o | other signs such a | s track | ks, droppings, casings, i | nests, etc.): | |
| Various animal signs obser | rved. Wood ducks obse | rved near wetland | and Trillium unde | rwood | ii observed on adjacent | sloped forests. | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Joshua L. Bell | | | 2/11/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-211 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell Impact 2/11/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Wetland is bisected by highway on its west side. Water from associated "Lang Branch" is conveyed through culverts on its west side. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) Flowing braided streams meander through this wetland. The canopy is opened enough to potentially be woodstork foraging habitat. Small fish were observed in deeper pools. w/o pres or current with 8 8 .500(6)(c)Community structure Appropriate vegetation for this area. Sloping beech-magnolia forests on the north and south sides of this wetland 1. Vegetation and/or contribute to the habitat diversity. Trillium underwoodii observed on the slopes and wood duck and various songbirds 2. Benthic Community were observed throughout the wetland. n/o pres or with current 8 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = 0.17 x 0.06 = 0.01 with w/o pres

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

 Score = sum of above scores/30 (if uplands, divide by 20)
 If preservation as mitigation,
 For impact assessment areas

 or w/o pres
 with

 0.77
 0.60

 If mitigation
 FL = delta x acres = 0.17 x 0.06 = 0.01

 Delta = [with-current]
 If mitigation

 0.17
 Risk factor =

| Site/Project Name | | Application Number | 1 | Assessment Area Name or Number | | | |
|--|---|--|--------------------------|--|---|-------|--|
| North Florida Resilie | ency Connection | | | W-EE-211 | | | |
| Impact or Mitigation | | Assessment conducted by: | / | Assessment date | : | | |
| Pole Location | n Impact | Joshua L. Bell | | | 2/11/2019 | | |
| Scoring Guidance | Ontimal (10) | Modorato(7) | Min | imal (4) | Not Present (0) | | |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | Optimal (10) Condition is optimal and fully supports wetland/surface water functions | Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal lev wetland/s | imal (4) vel of support of surface water nctions | Not Present (0) Condition is insufficien provide wetland/surfa water functions | nt to | |
| .500(6)(a) Location and Landscape Support w/o pres or current with | Wetland is bisected by highw | vay on its west side. Water fror on its we | | "Lang Branch" is | s conveyed through culv | verts | |
| .500(6)(b)Water Environment (n/a for uplands) Flowing braided streams meander through this wetland. The canopy is opened enough to potentially be woodst foraging habitat. Small fish were observed in deeper pools. w/o pres or current with 8 0 | | | | | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 8 0 | | this area. Sloping beech-magn sity. Trillium underwoodii obse were observed throu | erved on the s | slopes and wood | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres with 0.77 0.00 | Preservation adjustmer Adjusted mitigation dell | nt factor = | FL = d | For impact assess lelta x acres = pr mitigation asse | | | |
| Delta = [with-current] | Time lag (t-factor) = Risk factor = | | RFG = | e delta/(t-factor x | risk) = | | |

| Site/Project Name | | Application Numbe | tion Number Assessment | | | sment Area Name or Number | |
|--|---|---------------------|--|-----------|-----------------------------------|------------------------------|--|
| North Florida Resiliency | Connection | | | | W-E | E-212 | |
| FLUCCs code | Further classifica | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 611 | | Bay Swamps | | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.0 | OFW, AP, other local/state/federa | I designation of importance) | |
| HUC 10: Lloyd Creek | Class | 3 | | | | | |
| Geographic relationship to and hyc | rologic connection with | wetlands, other su | urface water, uplar | าds | | | |
| Assessment area description | | | | | | | |
| | Isolate | ed concave wetlar | nd that is very nice | ·- | | | |
| Significant nearby features | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | | | | |
| Adjacent to highway a | and single family residen | ices. | | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | ; | |
| Water quality, water | storage, and wildlife hab | vitat. | | | N/A | | |
| Anticipated Wildlife Utilization Base that are representative of the asse be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Typical mammals, a | amphibians, birds, reptile | 3 8. | | | N/A | | |
| Observed Evidence of Wildlife Util | zation (List species dire | ctly observed, or o | other signs such a | s tracl | ks, droppings, casings, | nests, etc.): | |
| | | None | 3 | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| Joshua L. Bell | | | 2/8/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-212 Impact or Mitigation Assessment conducted by: Assessment date: Joshua L. Bell 2/8/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Condition is optimal and fully Minimal level of support of indicator is based on what optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the wetland/surface water maintain most type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Adjacent to highway and single family residences (wooded lots). w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) Appears to hold surface water long enough to support most wildlife habitat. However it does not appear to support fish. w/o pres or current with 7 7 .500(6)(c)Community structure 1. Vegetation and/or Appropriate vegetation for this location. 2. Benthic Community w/o pres or with current 7 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL= delta x acres = 0.13 x 0.015 = 0.002 with w/o pres Adjusted mitigation delta = 0.70 0.57 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

0.13

RFG = delta/(t-factor x risk) =

PART I – Qualitative Description+A1:Y51A23A1:Y32A1:Y59A23A1:Y32A1:Y51 (See Section 62-345.400, F.A.C.)

| Site/Project Name | Application Number | | | Assessment Area Name or Number | | | |
|--|--|---|--|--------------------------------|-----------------------------------|-------------------------------|--|
| NRFC FGT Corridor A | lignment | | | | W-ECT-N-21 | 6C_2 (W-RM-110) | |
| FLUCCs code | Further classifica | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 615 | Stream and | d Lake Swamps (I | (Bottomland) Impact | | | | |
| Basin/Watershed Name/Number Wacissa River / 95990000 | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federa | al designation of importance) | |
| | | | | | | | |
| Geographic relationship to and hyd This wetland is a large stream fring almost three miles before heading s | ge wetland associated south. The stream and | with Caney Branc | h Stream. Caney tland meander in | Brancl | | | |
| Assessment area description | | | | | | | |
| This Bottomland wetland is asso hardwood floodplain. S | | | | | | | |
| Significant nearby features | Significant nearby features | | | nsider | ing the relative rarity in | relation to the regional | |
| Caney Bra | | This bottomland wetland follow a well defined natural stream system for three miles across the assessment area. | | | | | |
| Functions | | | Mitigation for pre | vious | permit/other historic us | e | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, cover, food | | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sedii retent | nent/erosion control; recharge/discha ion/detention. | arge; detrital export; flood | N/A | | | | |
| Anticipated Wildlife Utilization Based on Liter representative of the assessment area and | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| MAMMALS: short-tailed & southeastern shrews, opossum, raccoon, gray & flying squirn black bear, BIRDS: wood duck, nuby-throated hummingbird, cetar waxwing, great-hor yellow-bilde cucko, yellow-throated, Swainson's, hodod, and prothonctary warhlers , crowned night heron, screech owl, parula, rufous-sided towhee, woodcock, Carolina w bird-voiced & gray treefogs, southern toad, amphinum, ambled, mole, dusky, waterd rat, mud, eastern king, red bellied water, rainbow, crayfish, black swamp, & b | ed & barred owls, red-tailed & red-shouldered hawks, c oileated & hairy woodpeckers, swallow-tailed & Mississip en, white-eyed & red-eyed vireos; HERPETOFAUNA: cr og, two-lined, three-lined, dwarf, rusty mud, and slimy si | ardinal, very, hermit thrush, chimney swift, ppi kites, Acadian flycatcher, turkey, yellow- ricket frog, bullfrog, river frog, leopard frog, alamanders, moccasin, ring-necked, gray | incidental), little blue heron (SSC, foraging, roosting, nesting, seasonal), snowy egret | | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ectly observed, or | other signs such | as trac | cks, droppings, casings | s, nests, etc.): | |
| Small and Large Fish, Several s turth | species of snakes inclu es, snails, evidence of | • | | | | g birds, Evidence of | |
| Additional relevant factors: | | | | | | | |
| Caney Branch continues south to w | here it joins Wacissa F | River. | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| T.Callahan, R. Mcloughlin ECT Inc. | | | 5/21/2019 | | | | |

| Site/Proje | ect Name | | | Application Number | | Assessment Area Name or Number | | er |
|---|---|-------------|--|--|---|--|---|---|
| | | GT Corrid | or Alignment | | | W-ECT-N-2 | 16C_2 (W-RM-11 | 0) |
| Impact or | [.] Mitigation | | | Assessment conducted by: | | Assessment date | ə: | |
| | | Impac | t | T.Callahan, R. Mcloughlin | ECT Inc. | | 5/21/2019 | |
| Scori | ng Guidance | | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Presen | t (0) |
| The so indicator i would be type of we | coring of each is based on wh e suitable for th etland or surfa er assessed | ne | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal le wetland | evel of support of l/surface water unctions | Condition is insu provide wetlanc water funct | Ifficient to I/surface |
| | 0(6)(a) Location andscape Supp or | | to this bottomland forest. T times over a three mile stre is near optimal. The stream a large bridge. There is no marsh characteristics. T | bey Branch Stream. The strea The stream and its associated tch before heading south to jo for the most part traverses re disruption of flow except when The downstream benefits of the nificant protection of wetland to | l wetland me bin Wacissa emote areas n the stream his wetland a | eander in and out o River. Support to crossing under or n nears the FGT c are near optimal a | of the survey area wildlife by outside ne road (Gamble I orridor and develo s the stream char | a several e habitats Road) via ops more anel is |
| 0 | | 8 | | | | | | |
| • • • |)(b)Water Envi (n/a for uplands or | | patterns are somewhat alter Water levels are appropria this appears to be an old gr | ors present (saturation, staine red due to the Gamble road c te and consistent within the st rowth forested system. This w nts. There are no nearby deve potentially contribute to w | rossing and tream bed. ⁻ vetland/strea eloped featu | l stream maintena There are no signs am are highly utiliz res (other than Ga | nce near the FGT s of hydrological s red by animal spe | corridor. tress as cies with |
| 8 | | 8 | | | | | | |
| 1. | (c)Community Vegetation an Benthic Comm | d/or | appropriate. There is howev an old growth forested syst | m is primarily hardwood (Nys er a minimal exotic presence rem. Plant condition is healthy r maintenance and bridging o | (Lygodium) / with norma of Gamble R | Age and size dis al diversity. Topogioad. Conversion t | tribution appear n raphic features ha | ormal for |
| w/o pres c | or | | | structural habitat, but pror | mote unders | story species. | | |
| current | - | with | | | | | | |
| 8 | | 3 | | | | | | |
| | | | • | | | | | |
| Score = s | um of above sco | ores/30 (if | If preservation as mitig | jation, | | For impact asses | sment areas | |
| - | lands, divide by | 20) | Preservation adjustme | nt factor = | | _ 0 17 v 0 077 - | 0.047 | |
| current pr w/o pre | S | with | | | | . = 0.17 x 0.277 = | 0.047 | |
| 0.8 | | 063 | Adjusted mitigation de | lta = 0 | | | | |
| | | | | | | | | |
| | 140 F. 341 - | a mtl | If mitigation | | For mitigation assessment areas | | | |
| De | lta = [with-curr | entj | Time lag (t-factor) = | | RFG | G = delta/(t-factor x | (risk) | |
| | -0.17 | | Risk factor = | | | = | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description+A1:Y51A23A1:Y32A1:Y59A23A1:Y32A1:Y51 (See Section 62-345.400, F.A.C.)

| Site/Project Name | Application Number | | | Assessment Area Name or Number | | | | |
|--|---|---|--|--------------------------------|--|--------------------------|--|--|
| NRFC FGT Corridor | Alignment | | | | W-ECT-N-21 | 6C_3 (W-RM-110) | | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 615 | Stream and | d Lake Swamps (I | Bottomland) Impact | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | | |
| Wacissa River / 95990000 | | | | | | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | surface water, upla | ands | | | | |
| This wetland is a large stream fring almost three miles before heading | south. The stream and | | tland meander in | | | | | |
| Assessment area description | | | | | | | | |
| This Bottomland wetland is asso hardwood floodplain. | - | | | | nd the wetland is gener stream crosses the FG | - | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nside | ring the relative rarity in | relation to the regional | | |
| Caney Bra | | This bottomland wetland follow a well defined natural stream system for three miles across the assessment area. | | | | | | |
| Functions | | | Mitigation for pre | vious | permit/other historic us | e | | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, | | | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sedi reten | iment/erosion control; recharge/dischation/detention. | arge; detrital export; flood | | | N/A | | | |
| Anticipated Wildlife Utilization Based on Lite representative of the assessment area and | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| MAMMALS: short-tailed & southeastern shrews, opossum, raccoon, gray & flying squi black bear; BIRDS: wood duck, ruby-throated hummingbird, cedar waxwing, great-ho yellow-billed cuckoo, yellow-throated, Swainson's, hooded, and prothonotary watelies, crowned night heron, screech owh, parula, rufus-sided towher, woodcock, Carolina v bird-voiced & gray treefrogs, southern toad, amphiuma, marbled, mole, dusky, water rat, mud, eastern king, red bellied water, rainbow, crayfish, black swamp, & | med & barred owls, red-tailed & red-shouldered hawks, c pileated & hairy woodpeckers, swallow-tailed & Mississip ren, white-eyed & red-eyed vireos; HERPETOFAUNA: c dog, two-lined, three-lined, dwarf, rusty mud, and slimy s | ardinal, very, hermit thrush, chimney swift, opi kites, Acadian flycatcher, turkey, yellow- ricket frog, bullfrog, river frog, leopard frog, alamanders, moccasin, ring-necked, gray | incidental), little blue heron (SSC, foraging, roosting, nesting, seasonal), snowy egret | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ectly observed, or | other signs such | as tra | cks, droppings, casings | s, nests, etc.): | | |
| Small and Large Fish, Several turt | species of snakes inclu les, snails, evidence of | • | | | • • | g birds, Evidence of | | |
| Additional relevant factors: | | | | | | | | |
| Caney Branch continues south to v | vhere it joins Wacissa F | River. | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| T.Callahan, R. Mcloughlin ECT Inc | | | 5/21/2019 | | | | | |

| Site/Proje | ect Name | | | Application Number | | Assessment Area Name or Number | | oer |
|---|---|------------|--|--|---|--|---|---|
| | NRFC F | -GT Corrid | or Alignment | | | W-ECT-N-2 | 216C_3 (W-RM-1 | 10) |
| Impact or | [•] Mitigation | | | Assessment conducted by: | | Assessment date: | | |
| | | Impac | t | T.Callahan, R. Mcloughlin | ECT Inc. | | 5/21/2019 | |
| Scori | ng Guidance | | Optimal (10) | Moderate(7) | Mi | inimal (4) | Not Presen | t (0) |
| The so indicator i would be type of we | coring of each is based on wh e suitable for th etland or surfa er assessed | ne | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal le wetland | evel of support of d/surface water unctions | Condition is insu provide wetland water funct | Ifficient to |
| | 0(6)(a) Location andscape Supp pr | | to this bottomland forest. T times over a three mile stre is near optimal. The stream a large bridge. There is no marsh characteristics. T | bey Branch Stream. The strea The stream and its associated tch before heading south to jo for the most part traverses re disruption of flow except wher The downstream benefits of th nificant protection of wetland t | wetland me bin Wacissa mote areas in the stream his wetland a | eander in and out River. Support to crossing under ou n nears the FGT c are near optimal a | of the survey area wildlife by outside ne road (Gamble l corridor and develo is the stream char | a several e habitats Road) via ops more nnel is |
| 0 | | 0 | | | | | | |
| | n(b)Water Envir (n/a for uplands | | patterns are somewhat alter Water levels are appropria this appears to be an old gr | ors present (saturation, staine red due to the Gamble road c te and consistent within the st rowth forested system. This w nts. There are no nearby deve potentially contribute to w | rossing and tream bed. /etland/strea eloped featu | I stream maintena There are no sign am are highly utiliz Ires (other than Ga | nce near the FGT s of hydrological s zed by animal spe | corridor. tress as cies with |
| 8 | | 8 | | | | | | |
| 1. | (c)Community Vegetation an 3enthic Comm | d/or | appropriate. There is howev an old growth forested syst | m is primarily hardwood (Nys er a minimal exotic presence em. Plant condition is healthy r maintenance and bridging o | (Lygodium) with normation (Gamble R |). Age and size dis al diversity. Topog coad. Conversion t | stribution appear n raphic features ha | ormal for ave been |
| w/o pres c | or | | | structural habitat, but pror | mote unders | story species. | | |
| current | | with | | | | | | |
| 8 | | 3 | | | | | | |
| | • | | | | | | | |
| | um of above sco | | If preservation as mitig | ation, | | For impact asses | sment areas | |
| | uplands, divide by 20) Preserv | | | nt factor = | | _ = 0.17 x 0.433 = | 0.073 | 1 |
| current or w/o pre | s . | with | Adjusted mitigation del | | | _ = 0.17 \ 0.400 = | 0.070 | |
| 0.8 | | 063 | , lajusted miligation de | | | | | J |
| | | | If mitigation | | | | | 1 |
| Do | lta = [with-curr | ent] | Time lag (t-factor) = | | For mitigation assessment areas | | | |
| | | ong | | | RFG | G = delta/(t-factor > | (risk) | |
| | -0.17 | | Risk factor = | | | = | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description+A1:Y51A23A1:Y32A1:Y59A23A1:Y32A1:Y51 (See Section 62-345.400, F.A.C.)

| Site/Project Name | Application Number | | | Assessment Area Name or Number | | | | |
|--|---|---|--|--------------------------------|--|--------------------------|--|--|
| NRFC FGT Corridor | Alignment | | | | W-ECT-N-21 | 6D_3 (W-RM-110) | | |
| FLUCCs code | Further classification | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | | |
| 615 | Stream and | d Lake Swamps (I | Bottomland) Impact | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | | | |
| Wacissa River / 95990000 | | | | | | | | |
| Geographic relationship to and hyc | rologic connection with | wetlands, other s | surface water, upla | ands | | | | |
| This wetland is a large stream frin almost three miles before heading | south. The stream and | | tland meander in | | | | | |
| Assessment area description | | | | | | | | |
| This Bottomland wetland is asso hardwood floodplain. | - | | | | nd the wetland is gener stream crosses the FG | • | | |
| Significant nearby features | Significant nearby features | | | nside | ring the relative rarity in | relation to the regional | | |
| Caney Bra | | This bottomland wetland follow a well defined natural stream system for three miles across the assessment area. | | | | | | |
| Functions | | | Mitigation for pre | vious | permit/other historic us | e | | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, | | | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sed reten | ment/erosion control; recharge/discha tion/detention. | arge; detrital export; flood | | | N/A | | | |
| Anticipated Wildlife Utilization Based on Lite representative of the assessment area and | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | | |
| MAMMALS: short-tailed & southeastern shrews, opossum, raccoon, gray & flying squi black bear; BIRDS: wood duck, ruby-throated hummingbird, cedar waxwing, great-ho yellow-billed cuckoo, yellow-throated, Swainson's, hooded, and prothonotary wateliers, crowned night heron, screech owi, panula, rufuos-sided torwhere, woodcock, Carolina v bird-voiced & gray treefrogs, southern toad, amphiuma, marbled, mole, dusky, water rat, mud, eastern king, red bellied water, rainbow, crayfish, black swamp, & | ned & barred owls, red-tailed & red-shouldered hawks, c pileated & hairy woodpeckers, swallow-tailed & Mississip ren, white-eyed & red-eyed vireos; HERPETOFAUNA: c dog, two-lined, three-lined, dwarf, rusty mud, and slimy s | ardinal, very, hermit thrush, chimney swift, opi kites, Acadian flycatcher, turkey, yellow- ricket frog, bullfrog, river frog, leopard frog, alamanders, moccasin, ring-necked, gray | incidental), little blue heron (SSC, foraging, roosting, nesting, seasonal), snowy egret | | | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ectly observed, or | other signs such | as tra | cks, droppings, casings | s, nests, etc.): | | |
| Small and Large Fish, Several turt | species of snakes inclu es, snails, evidence of | • | | | • • | g birds, Evidence of | | |
| Additional relevant factors: | | | | | | | | |
| Caney Branch continues south to v | vhere it joins Wacissa F | River. | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | | |
| T.Callahan, R. Mcloughlin ECT Inc | | | 5/21/2019 | | | | | |

| Site/Proje | ect Name | | | Application Number | | Assessment Area Name or Number | | ber |
|---|---|------------|--|--|---|--|---|---|
| | NRFC I | FGT Corrid | lor Alignment | | | W-ECT-N- | 216D_3 (W-RM-1 | 10) |
| Impact or | [.] Mitigation | | | Assessment conducted by: | | Assessment date | 9: | |
| | | Impac | t | T.Callahan, R. Mcloughlin | ECT Inc. | | 5/21/2019 | |
| Scori | ng Guidance | | Optimal (10) | Moderate(7) | I Mi | inimal (4) | Not Presen | t (0) |
| The so indicator i would be type of we | coring of each is based on wh e suitable for th etland or surfa er assessed | ne | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal le wetland | evel of support of d/surface water unctions | Condition is insu provide wetlanc water funct | ifficient to I/surface |
| | 0(6)(a) Location andscape Supp pr | | to this bottomland forest. T times over a three mile stre is near optimal. The stream a large bridge. There is no marsh characteristics. T | ey Branch Stream. The strea The stream and its associated tch before heading south to jo for the most part traverses re disruption of flow except wher The downstream benefits of the nificant protection of wetland the | wetland me bin Wacissa mote areas in the stream his wetland a | eander in and out River. Support to crossing under ou n nears the FGT c are near optimal a | of the survey area wildlife by outside ne road (Gamble I corridor and develo is the stream char | several habitats Road) via ops more inel is |
| 0 | | 0 | | | | | | |
| . , | n(b)Water Envir (n/a for uplands | | patterns are somewhat alter Water levels are appropria this appears to be an old gr | ors present (saturation, staine red due to the Gamble road c te and consistent within the st rowth forested system. This w nts. There are no nearby deve potentially contribute to w | rossing and tream bed. /etland/strea eloped featu | I stream maintena There are no sign am are highly utiliz Ires (other than Ga | nce near the FGT s of hydrological s zed by animal spe | corridor. tress as cies with |
| 8 | | 8 | | | | | | |
| 1. | (c)Community Vegetation an 3enthic Comm | d/or | appropriate. There is howev an old growth forested syst | m is primarily hardwood (Nys er a minimal exotic presence em. Plant condition is healthy r maintenance and bridging o | (Lygodium) with normation (Gamble R |). Age and size dis al diversity. Topog coad. Conversion t | stribution appear n raphic features ha | ormal for |
| w/o pres o | or | | | structural habitat, but pror | mote unders | story species. | | |
| current | _ | with | | | | | | |
| 8 | | 3 | | | | | | |
| | | | | | | | | |
| | um of above sco lands, divide by S | | If preservation as mitig Preservation adjustme Adjusted mitigation del | nt factor = | FL | For impact asses | | |
| 0.8 | | 063 | | | | | | |
| | - | - | It mitigation | | | | | 1 |
| De | lta = [with-curr | ent] | If mitigation Time lag (t-factor) = | | For mitigation assessment areas | | | |
| -0.17 Risk factor = RFG = delta/(t-factor x = | | | | | | <risk)< td=""><td></td></risk)<> | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

PART I – Qualitative Description+A1:Y51A23A1:Y32A1:Y59A23A1:Y32A1:Y51 (See Section 62-345.400, F.A.C.)

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | |
|--|------------------------------|----------------------------|--|--------|--------------------------------|----------------------|
| NRFC FGT Corridor Alignment | | | | | W-ECT-N-216F (W-RM-110) | |
| FLUCCs code | ICCs code Further classifica | | tion (optional) | | t or Mitigation Site? | Assessment Area Size |
| 615 Stream and | | d Lake Swamps (Bottomland) | | Impact | | |
| asin/Watershed Name/Number Affected Waterbody (Class) | | ss) | Special Classification (i.e.OFW, AP, other local/state/federal designation of importance) | | | |
| Wacissa River / 95990000 | | | | | | |
| Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands | | | | | | |
| This wetland is a large stream fringe wetland associated with Caney Branch Stream. Caney Branch flows east to west along the Survey area for almost three miles before heading south. The stream and its associated wetland meander in and out of the survey area while connecting to larger wetland systems to the south. | | | | | | |
| Assessment area description | | | | | | |
| This Bottomland wetland is associated with Caney Branch stream. The stream is well defined and the wetland is generally characterized as hardwood floodplain. Some areas of the AA open up to a freshwater marsh where the stream crosses the FGT corridor. | | | | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| Caney Branch, Story Lake | | | This bottomland wetland follow a well defined natural stream system for three miles across the assessment area. | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bird feeding, roosting, nesting; macroinvertebrate habitat; smal medium-large mammal habitat (cover, food, dens); amphibian/reptile cover, breeding, and feeding. | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sediment/erosion control; recharge/discharge; detrital export; flood retention/detention. | | | N/A | | | |
| Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| MAMMALS: short-tailed & southeastern shrews, opossum, raccoon, gray & flying squirrels, otter, beaver, mink, wood & rice rats, cotton & golden mice, gray fox, white-tailed deer, bobcz black bear; BIRDS: wood duck, ruby-throated hummingbird, cedar waxwing, great-horned & barred owls, red-tailed & red-shouldered hawks, cardinal, very, hermit thrush, chinney setti black bear; BIRDS: wood duck, ruby-throated hummingbird, cedar waxwing, great-horned & barred owls, red-tailed & Massisseiphitek, Acadian flycatcher, tukye, yellow cowned night heron, screech owl, parula, rufous-sided towhee, woodcock, Carolina wren, white-eyed & red-eyed Wrecs, HERPETOFAUNA: cricket frog, builfrog, river frog, leopard fog bird-voiced & gray treefogs, southern toad, angrhuinam, mathode, node, dusky, waterdog, two-lined, three-lined, dwarf, rusty mud, and sims yaainandner, moccashi, nign-ekedd, gray rat, mud, eastern king, red bellied water, rainbow, crayfish, black swamp, & brown water snakes, five-lined and broadhead skinks, alligator, river Cooter, and stinkpot. | | | incidental), little blue heron (SSC, foraging, roosting, nesting, seasonal), snowy egret | | | |
| Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): | | | | | | |
| Small and Large Fish, Several species of snakes including multiple cotton mouth, various bird species including wading birds, Evidence of turtles, snails, evidence of crayfish, deer tracks and various unidentified droppings. | | | | | | |
| Additional relevant factors: | | | | | | |
| Caney Branch continues south to where it joins Wacissa River. | | | | | | |
| Assessment conducted by: | | | Assessment date(s): | | | |
| T.Callahan, R. Mcloughlin ECT Inc. | | | 5/21/2019 | | | |
| Site/Proje | ect Name | | | Application Number | | Assessment A | rea Name or Num | nber |
|---|---|--|--|--|--|--|---|---|
| | NRFC F | GT Corrid | or Alignment | | | W-ECT | -N-216F (W-RM- | 110) |
| Impact or | Mitigation | | | Assessment conducted by: | | Assessment date | э: | |
| | | Impac | t | T.Callahan, R. Mcloughlin | ECT Inc. | 5/21/2019 | | |
| Scorir | ng Guidance | | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Presen | t (0) |
| The so indicator i would be type of we | coring of each is based on wh suitable for th etland or surfa er assessed | e | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal le wetland | evel of support of /surface water unctions | Condition is insu provide wetland water funct | Ifficient to |
| | 9(6)(a) Location andscape Supp pr | | to this bottomland forest. T times over a three mile street is near optimal. The stream a large bridge. There is no marsh characteristics. T | ey Branch Stream. The stream he stream and its associated tch before heading south to jo for the most part traverses re disruption of flow except wher he downstream benefits of th hificant protection of wetland f | wetland me in Wacissa mote areas the stream is wetland a | eander in and out River. Support to crossing under ou nears the FGT c are near optimal a | of the survey area wildlife by outside ne road (Gamble I orridor and develo s the stream char | a several e habitats Road) via ops more anel is |
| | | 0 | | | | | | |
| | n/a for uplands | b)Water Environment h/a for uplands) Distinct hydrologic indicators present (saturation, stained leaves, water marks, muck presence). Natural flor patterns are somewhat altered due to the Gamble road crossing and stream maintenance near the FGT corr Water levels are appropriate and consistent within the stream bed. There are no signs of hydrological stress this appears to be an old growth forested system. This wetland/stream are highly utilized by animal species hydrological requirements. There are no nearby developed features (other than Gamble Road) that could potentially contribute to water quality degradation. | | | | | | corridor. tress as cies with |
| 8 | | 8 | | | | | | |
| 1. | (c)Community Vegetation an Benthic Comm | d/or | appropriate. There is howev an old growth forested syst | m is primarily hardwood (Nyse er a minimal exotic presence em. Plant condition is healthy r maintenance and bridging o structural habitat, but pror | (Lygodium) with norma f Gamble R | . Age and size dis al diversity. Topog oad. Conversion t | stribution appear n raphic features ha | ormal for ave been |
| w∕o pres o | or | | | Siluciulai nabilal, bul proi | | story species. | | |
| current | , ı | with | | | | | | |
| 8 | | 3 | | | | | | |
| | | | | | | | | |
| | um of above sco | · · | If preservation as mitig | ation, | | For impact asses | sment areas | |
| upl current | lands, divide by | ∠∪) | Preservation adjustme | nt factor = | FI | . = 0.17 x 0.855 = | 0.145 | |
| or w/o pres | S | with | Adjusted mitigation del | ta = 0 | | | | |
| 0.8 | | 063 | , | - | | | | J |
| | | | It mitigation | | | | | 1 |
| Delta = [with-current] Time lag (t-factor) = | | | | F | or mitigation asse | essment areas | | |
| | -0.17 | - | Risk factor = | RFG = delta/(t-factor x risk) = | | | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | |
|---|---|--|--|--------------------------|-----------------------------------|------------------------------|--|
| NRFC FGT Corridor | Alignment | | | | W-ECT-N-21 | 6G_2 (W-RM-110) | |
| FLUCCs code | Further classifica | ation (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 615 | Stream and | d Lake Swamps (I | Bottomland) | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federa | I designation of importance) | |
| Wacissa River / 95990000 | | | | | | | |
| Geographic relationship to and hyd | drologic connection with | wetlands, other s | surface water, upla | ands | | | |
| This wetland is a large stream frin almost three miles before heading | south. The stream and | | tland meander in | | | | |
| Assessment area description | | • | | | | | |
| This Bottomland wetland is ass hardwood floodplain. | ociated with Caney Bra Some areas of the AA o | | | | | - | |
| Significant nearby features | | | Uniqueness (co landscape.) | onsider | ring the relative rarity in | relation to the regional | |
| Caney Branch, Story Lake | | | This bottomland wetland follow a well defined natural stream system for three miles across the assessment area. | | | | |
| Functions | | Mitigation for pre | vious | permit/other historic us | e | | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wadin medium-large mammal habitat (cover, food, | | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sec reter | liment/erosion control; recharge/dischantion/detention. | arge; detrital export; flood | | | N/A | | |
| Anticipated Wildlife Utilization Based on Lite representative of the assessment area and | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| MAMMALS: short-tailed & southeastern shrews, opossum, raccoon, gray & flying squ black bear, BIRDS: wood duck, ruby-throated hummingbird, cedar waxwing, great-hu yellow-billed cuckoo, yellow-throated, Swainson's, hooded, and prothonotary warblers crowned night heron, screech only, parula, rufuca-sided towhe, woodcock, Carolina bird-voiced & gray treefrogs, southern toad, amphiuma, mahled, mole, dusky, wate rat, mud, eastern king, red bellied water, rainbow, crayfish, black swamp, 8 | orned & barred owls, red-tailed & red-shouldered hawks, o s, pileated & hairy woodpeckers, swallow-tailed & Mississi wren, white-eyed & red-eyed vireos; HERPETOFAUNA: o rdog, two-lined, three-lined, dwarf, rusty mud, and slimy s | cardinal, very, hermit thrush, chimney swift, ppi kites, Acadian flycatcher, turkey, yellow- cricket frog, bullfrog, river frog, leopard frog, salamanders, moccasin, ring-necked, gray | incidental), little blue heron (SSC, foraging, roosting, nesting, seasonal), snowy egret | | | | |
| Observed Evidence of Wildlife Util | ization (List species dire | ectly observed, or | other signs such | as trac | cks, droppings, casings | s, nests, etc.): | |
| Small and Large Fish, Several turt | species of snakes inclu les, snails, evidence of | | | | | g birds, Evidence of | |
| Additional relevant factors: | | | | | | | |
| Caney Branch continues south to v | where it joins Wacissa I | River. | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| T.Callahan, R. Mcloughlin ECT Inc | 2. | | 5/21/2019 | | | | |

| Site/Project Name Ap | | Application Number Assessment Area Name or N | | Area Name or Nu | mber | | | |
|--|---|--|---|--|--|--|---|---|
| | NRFC F | GT Corrid | or Alignment | | | W-ECT-N | I-216G_2 (W-RM- | ·110) |
| Impact or Miti | gation | | | Assessment conducted by: | | Assessment date | э: | |
| | | Impac | t | T.Callahan, R. Mcloughlin | ECT Inc. | 5/21/2019 | | |
| Scoring G | Juidance | | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Presen | ot (0) |
| The scorin indicator is ba would be suit type of wetlar water as | g of each ased on wh table for th nd or surfac | е | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | , but sufficient to aintain most d/surface water d/surface water d/surface water d/surface water functions d/surface water functions | | | |
| . , . | a) Location cape Supp | | to this bottomland forest. T times over a three mile stree is near optimal. The stream a large bridge. There is no marsh characteristics. T | ey Branch Stream. The strean he stream and its associated tch before heading south to jo for the most part traverses re disruption of flow except wher he downstream benefits of th hificant protection of wetland f | wetland me in Wacissa mote areas the stream is wetland a | eander in and out River. Support to crossing under ou n nears the FGT c are near optimal a | of the survey area wildlife by outside ne road (Gamble orridor and develo s the stream char | a several e habitats Road) via ops more nnel is |
| | | - | | | | | | |
| | | | | | | corridor. stress as cies with | | |
| 8 | | 8 | | | | | | |
| | ommunity s letation and nic Commu | d/or | appropriate. There is howev an old growth forested syst | m is primarily hardwood (Nyss er a minimal exotic presence em. Plant condition is healthy r maintenance and bridging of structural habitat, but pror | (Lygodium) with norma f Gamble R | Age and size dis al diversity. Topog oad. Conversion t | stribution appear r raphic features ha | normal for ave been |
| w∕o pres or | | | | | | | | |
| current | г | with | | | | | | |
| 8 | | 3 | | | | | | |
| | | | | | | | | • |
| Score = sum o | of above sco s, divide by 2 | · · | If preservation as mitig | ation, | | For impact asses | sment areas | |
| current | s, uivide by <i>i</i> | 20) | Preservation adjustme | ljustment factor = FL = 0.17 x 1.925 = 0.327 | | 0.327 | | |
| or w/o pres | Г | with | Adjusted mitigation del | ta = 0 | | | | |
| 0.8 | | 063 | | | | | | - |
| P | | | If mitigation | | F | or mitigation asse | ssment areas | 1 |
| Delta = | [with-curre | ent] | Time lag (t-factor) = | | | | | |
| -0.17 Risk factor = RFG = delta/(t-factor x risk) = | | | | | | | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

| Site/Project Name | Site/Project Name Application | | mber Assessment Area Name or Num | | or Number | |
|--|---|---|--|-----------|------------------------------------|----------------------------|
| NFRC FGT Corridor | Alignment | | | | W-ECT-N-222 | 2_3 (W-SRF-147) |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 617 | Mixe | ed Wetland Hardw | roods | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classification | ON (i.e.C | DFW, AP, other local/state/federal | designation of importance) |
| Limestone Creek / 50500000 | | | | | | |
| Geographic relationship to and hyd | Irologic connection with | wetlands, other s | urface water, uplar | nds | | |
| but is hydrologically connected t camp with | The AA is a hardwood dominated forested wetland system that crosses the FGT corridor. It is isolated to the east due to Upper Cody North Road, but is hydrologically connected to a wetland system continuing south beyond the SA. To the west of the isolated system is an active squatters camp with multiple trailers and trucks. Residential properties border the north and south of the AA. | | | | | |
| Assessment area description | (| | | • | d Nieder 1919 - Anne A | |
| This forested wetland is fragmented and disturbed. The hardwood forested area next to Upper Cody North exhibits presence of exotics and the FGT corridor had been cleared and maintained to a herbaceous state. The system is likely affected by the presence of the squatter and the pollution associated with he camp. | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional |
| None | | | Not Unique | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wadin medium-large mammal habitat (cover, food, | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sed | | | | | N/A | |
| Anticipated Wildlife Utilization Based on Lite representative of the assessment area and | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| MAMMALS: opossum, raccoon, gray & flying squirrels, o hairy & pileated woodpeckers, wood duck, turkey, chickar yellow-throated & prothonotary warblers, hermit thrush heron, wood stork, swallow-tailed and Mississippi kiter turtles, five-lined skink, ring-neck snake, gray rat snak cricket frog, marbled, mole, three-li | dee, titmouse, Carolina wren, cardinal, n, yellow-billed cuckoo, barred owl, limp s, red-shouldered hawk; REPTILES: gr | ruby-throated hummingbird, okin, yellow-crowned night een anole, chicken & box n, alligator; AMPHIBIANS: | Florida panther (FE, hunting, incidental), American alligator (SSC, habitat, long-term), limpkin (SSC, foraging, frequent), wood stork (FE, foraging, roosting, seasonal), tricolored heron (SSC, foraging, roosting, nesting, seasonal), snowy egret (SSC, roosting, nesting, seasonal), little blue heron (SSC, roosting, nesting, seasonal). | | | |
| Observed Evidence of Wildlife Utili | zation (List species dire | ctly observed, or | other signs such a | s trac | ks, droppings, casings, | nests, etc.): |
| | | None | | | | |
| | | None | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| None | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| T.Callahan, R. Mcloughlin ECT Inc | | | 5/23/2019 | | | |

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | |
|---|--|--|---|--|---------------------------------------|----------------------------------|
| NFRC FGT Corric | dor Alianment | | | W-ECT-N | N-222_3 (W-SRF-1 | 47) |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date | _ ` | , |
| Impact of Milligation | ct | T.Callahan, R. Mcloughlin | ECT Inc | | 5/23/2019 | |
| | | | LOT IIIC. | | 5/25/2019 | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Present | t (0) |
| The scoring of each | | Condition is less than | | | | |
| indicator is based on what would be suitable for the | Condition is optimal and fully supports wetland/surface | optimal, but sufficient to maintain most | | evel of support of l/surface water | Condition is insut provide wetland | |
| type of wetland or surface | water functions | wetland/surface water | functions water functions | | | |
| water assessed | | functions | | | | |
| | | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with 5 5 | ed depression that continues s orth, which is a paved resident a maintained residential lawn. has many surrounding barrier wildlife species. Although the habitats derive minimal b | ial road. To To the west rs and deter wetland cor | the southeast of th t there is a large ac rents for wildlife ac ntinues beyond the | he AA there is a sm ctive squatters can ccess and does not | nall pond np and a t provide | |
| | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) Distinct hydrologic indicators present (Saturation, stained leaves, water marks, muck presence).Water level appropriate and consistent within the heart of the wetlands while the perimeter remains saturated. There are possible contributors to water quality degradation such as surrounding roads and residential properties. A species utilization is greatly reduced and plant community composition is indicative of water quality degrade w/o pres or current with | | | | | e several Aquatic | |
| 5 5 | | | | | | |
| | | | | | | |
| .500(6)(c)Community structure | | | | | | |
| .500(6)(c)Community structure The north and south regions of the wetland are primarily hardwood dominated forested areas (Liquidambar, with a moderately dense shrub layer (Lyonia, Clethra) and a dense fern groundcover. The AA becomes herb as it crosses the FGT corridor. There is a moderate presence of exotic invasive species and the general sp composition is less than optimal. Regeneration and recruitment int he forested area appears near normal an condition is generally good. Conversion to herbaceous will remove structural habitat, but promote unders species. w/o pres or current with 6 3 | | | | | | rbaceous species and plant |
| | - | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitigation | ation, | | For impact assess | sment areas | |
| uplands, divide by 20) | Preservation adjustmer | nt factor = | E1 | . = 0.1 x 0.178 = 0 | 019 | |
| current pr w/o pres with | | | | . – 0. 1 X 0. 170 – 0 | | |
| 0.53 0.43 | Adjusted mitigation del | | | | | |
| | J | | _ | | | |
| | If mitigation | | F | For mitigation asse | ssment areas | |
| Delta = [with-current] | Time lag (t-factor) = | | | - | | |
| -0.1 Risk factor = RFG = delta/(t-factor x risk) = | | | | risk) #DIV/0! | | |

| Site/Project Name | Site/Project Name Applicati | | umber | | Assessment Area Name or Number | | |
|--|---|---|--|-------------|------------------------------------|----------------------------|--|
| NFRC FGT Corridor A | lignment | | | | W-ECT-N-224 | 4_1 (W-SRF-149) | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | roods | bods Impact | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federal | designation of importance) | |
| Limestone Creek / 50500000 | | | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other su | urface water, upla | nds | | | |
| The AA is a hardwood dominated for is hydrologically connected to a w | | | | | | | |
| Assessment area description | | | | | | | |
| The AA is hardwood dominated with adequate vegetation in each strata. It is a dense forested wetland that is part of a larger system continuing beyond the SA. Surrounded by planted pine the AA is relatively protected from encroaching development. | | | | | | | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| None | | | Not Unique | | | | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | 9 | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading medium-large mammal habitat (cover, food, de | | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sedim retention | nent/erosion control; recharge/discha | rge; detrital export; flood | N/A | | | | |
| Anticipated Wildlife Utilization Based on Litera representative of the assessment area and re | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| MAMMALS: opossum, raccoon, gray & flying squirrels, otte hairy & pileated woodpeckers, wood duck, turkey, chickade yellow-throated & prothonotary warblers, hermit thrush, y heron, wood stork, swallow-tailed and Mississippi kites, turtles, five-lined skink, ring-neck snake, gray rat snake, cricket frog, marbled, mole, three-line | e, titmouse, Carolina wren, cardinal, yellow-billed cuckoo, barred owl, limp red-shouldered hawk; REPTILES: gru eastern king snake, water moccasin | ruby-throated hummingbird, okin, yellow-crowned night een anole, chicken & box a, alligator; AMPHIBIANS: | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | None | 1 | | | | |
| | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| None | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| T.Callahan, R. Mcloughlin ECT Inc. | | | 5/23/2019 | | | | |

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | |
|---|---|---|-----------------------------------|---|---|--|
| NFRC FGT Corric | dor Alignment | | | W-ECT-N | N-224_1 (W-SRF-149) | |
| Impact or Mitigation | | Assessment conducted by: | A | Assessment date |): | |
| Impac | ct | T.Callahan, R. Mcloughlin | ECT Inc. | | 5/23/2019 | |
| | | , and | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Mini | imal (4) | Not Present (0) | |
| The scoring of each | Condition is optimal and | Condition is less than | | | | |
| indicator is based on what would be suitable for the | fully supports | optimal, but sufficient to maintain most | | el of support of surface water | Condition is insufficient to provide wetland/surface | |
| type of wetland or surface | wetland/surface water functions | wetland/surface water | | nctions | water functions | |
| water assessed | Tunctions | functions | | | | |
| | | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current with</u> 6 6 | all sides by active planted p leading to the hunting cam | system that continues north an ine plantations. There is also a o dissects the wetland creating undeveloped uplands making | a small huntin g a partial bar | ng camp building rrier for wildlife ut | to the south. The dirt road iilization. The AA is mostly | |
| ů ů | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) Distinct hydrologic indicators present (Saturation, stained leaves, water marks, muck presence). Water level appropriate and consistent within the heart of the wetlands while the perimeter remains saturated. The mossible contributor to water quality degradation is harvesting/planting of the pine plantation. Although the wis dissected by a dirt road, a culvert allows channelized flow to pass between section A and B. Aquatic wil utilization is less than expected likely due to channelization and diverted flow from the dirt road and FGT contribution is less than expected likely due to channelization and diverted flow from the dirt road and FGT contribution. w/o pres or current with 6 6 | | | | | ins saturated. The main ation. Although the wetland A and B. Aquatic wildlife | |
| .500(6)(c)Community structure | | | | | | |
| 1. Vegetation and/or 2. Benthic CommunityThe north and south regions of the wetland are primarily hardwood dominated forested areas (Nyssa), with moderately dense shrub layer (titi) and a dense diverse groundcover. The AA becomes herbaceous as it creaters the FGT corridor. There is a moderate presence of exotic invasive species and the general species composities than optimal. Regeneration and recruitment int he forested area appears near normal and plant conditi generally good. Conversion to herbaceous will remove structural habitat, but promote understory speciesw/o pres or current3 | | | | | s herbaceous as it crosses eral species composition is mal and plant condition is | |
| | | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitig | ation, | F | or impact asses | sment areas | |
| uplands, divide by 20) | Preservation adjustme | nt factor = | | | | |
| current pr w/o preswith | | | FL = | = 0.1 x 0.412= 0.0 | 041 | |
| 0.6 0.5 | Adjusted mitigation del | ta = 0 | | | | |
| 0.0 | | | | | | |
| | If mitigation | | – | n | | |
| Delta = [with-current] | Time lag (t-factor) = | | For | r mitigation asse | ssment areas | |
| | | | RFG = | = delta/(t-factor x | risk) | |
| -0.1 | Risk factor = | | | = | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

| Site/Project Name | | Application Numbe | r | | Assessment Area Name | or Number | |
|--|--|---|--|-----------|------------------------------------|----------------------------|--|
| NFRC FGT Corridor A | lignment | | | | W-ECT-N-225 | _ 3 (W-SRF-149) | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 617 | Mixe | ed Wetland Hardw | roods | | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.0 | DFW, AP, other local/state/federal | designation of importance) | |
| Limestone Creek / 50500000 | | | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, upla | nds | | | |
| The AA is a hardwood dominated fo is hydrologically connected to a w | | | | | | | |
| Assessment area description | | | | | | | |
| | The AA is hardwood dominated with adequate vegetation in each strata. It is a dense forested wetland that is part of a larger system continuing beyond the SA. Surrounded by planted pine the AA is relatively protected from encroaching development. | | | | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | | |
| None | | | Not Unique | | | | |
| Functions | | | Mitigation for pre- | vious | permit/other historic use | 9 | |
| BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bird feeding, roosting, nesting; macroinvertebrate habitat; sma medium-large mammal habitat (cover, food, dens); amphibian/reptile cover, breeding, and feeding. | | | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sedim retention | nent/erosion control; recharge/discha on/detention. | rge; detrital export; flood | | | N/A | | |
| Anticipated Wildlife Utilization Based on Litera representative of the assessment area and re | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| MAMMALS: opossum, raccoon, gray & flying squirrels, otto hairy & pileated woodpeckers, wood duck, turkey, chickade yellow-throated & prothonotary warblers, hermit thrush, y heron, wood stork, swallow-tailed and Mississippi kites, turtles, five-lined skink, ring-neck snake, gray rat snake, cricket frog, marbled, mole, three-line | ee, titmouse, Carolina wren, cardinal, yellow-billed cuckoo, barred owl, limp red-shouldered hawk; REPTILES: gr , eastern king snake, water moccasin | ruby-throated hummingbird, okin, yellow-crowned night een anole, chicken & box a, alligator; AMPHIBIANS: | | | | | |
| Observed Evidence of Wildlife Utilize | ation (List species dire | ctly observed, or o | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | None | | | | | |
| | | None | | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| None | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| T.Callahan, R. Mcloughlin ECT Inc. | | | 5/23/2019 | | | | |

| Site/Project Name | | Application Number | | Assessment Area Name or Number | | | |
|---|--|---|------------------------------------|--------------------------------|---|---|--|
| NFRC FGT Corric | dor Alignment | | | W-ECT-N | N-225_3 (W-SRF-14 | I-225_3 (W-SRF-149) | |
| Impact or Mitigation | _ | Assessment conducted by: | | Assessment date | 9: | | |
| Impac | ct | T.Callahan, R. Mcloughlin | ECT Inc. | | 5/23/2019 | | |
| | | , | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | Min | nimal (4) | Not Present | (0) | |
| The scoring of each | Condition is optimal and | Condition is less than | | | O an alitica in in a st | | |
| indicator is based on what would be suitable for the | fully supports | optimal, but sufficient to maintain most | | el of support of surface water | Condition is insuffi provide wetland/s | | |
| type of wetland or surface | wetland/surface water functions | wetland/surface water | fur | nctions | water functio | | |
| water assessed | | functions | | | | | |
| | | | | | to the south. The d tilization. The AA is ildlife species. resence). Water lev ins saturated. The r | lirt road mostly rels are nain | |
| w/o pres or current with 5 5 | possible contributor to water quality degradation is harvesting/planting of the pine plantation. Although the wetland is dissected by a dirt road, a culvert allows channelized flow to pass between section A and B. Aquatic wildlife utilization is less than expected likely due to channelization and diverted flow from the dirt road and FGT corridor. | | | | | | |
| .500(6)(c)Community structure 1. Vegetation and/or 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 5 5 | | | | | | crosses sition is ition is | |
| | ı | | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | If preservation as mitig | ation, | F | For impact asses | sment areas | | |
| current | nt factor = | FL = | = 0.1 x 0.374 = 0 | .037 | | | |
| pr w/o pres with | Adjusted mitigation del | ta = 0 | | | | | |
| 0.53 0.43 | | | | | | | |
| | If mitigation | | | | | | |
| Delta della della | If mitigation | | Fo | or mitigation asse | ssment areas | | |
| Delta = [with-current] | Time lag (t-factor) = | | RFG | = delta/(t-factor x | (risk) | | |
| -0.1 | Risk factor = | | RFG = delta/(t-factor x risk) = | | | | |

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

| Site/Project Name | | Application Numbe | r | | Assessment Area Name of | or Number |
|--|--|---|--|-----------|------------------------------------|----------------------------|
| NFRC FGT Corridor A | lignment | | 1 | | | _3 (W-SRF-152) |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 614 | | Titi Swamp | | | Impact | |
| Basin/Watershed Name/Number Limestone Creek / 50500000 | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hydro | ologic connection with | wetlands, other su | urface water, upla | nds | | |
| The AA is part of a large system tha on to the northeast by plant | | | | | | |
| Assessment area description | | | | | | |
| This wetland system is hardwood dominated with a dense canopy and healthy understory. The overall health and flow is good despite the FGT corridor intersecting the AA. The herbaceous center maintained by FGT remains inundated with good species diversity. | | | | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape.) | | | |
| None | | | Not Unique | | | |
| Functions | | | Mitigation for pre- | vious | permit/other historic use |) |
| | BIOLOGICAL: Vertical heterogeneity (3-4 strata); wading bird feeding, roosting, nesting; macroinvertebrate habitat; small medium-large mammal habitat (cover, food, dens); amphibian/reptile cover, breeding, and feeding. | | | | | |
| PHYSICAL/CHEMICAL: Water quality treatment; sedim retention | nent/erosion control; recharge/discha on/detention. | rge; detrital export; flood | N/A | | | |
| Anticipated Wildlife Utilization Based on Litera representative of the assessment area and re | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| MAMMALS: opossum, raccoon, gray & flying squirrels, otte hairy & pileated woodpeckers, wood duck, turkey, chickade yellow-throated & prothonotary warblers, hermit thrush, y heron, wood stork, swallow-tailed and Mississippi kites, turtles, five-lined skink, ring-neck snake, gray rat snake, cricket frog, marbled, mole, three-line | e, titmouse, Carolina wren, cardinal, yellow-billed cuckoo, barred owl, limp red-shouldered hawk; REPTILES: gr eastern king snake, water moccasin | ruby-throated hummingbird, okin, yellow-crowned night een anole, chicken & box a, alligator; AMPHIBIANS: | Elorida papither (EE building incidental) American alligator (SSU papitat iong-term) | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or o | other signs such a | is trac | ks, droppings, casings, | nests, etc.): |
| | | | | | | |
| | | None | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| None | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| T.Callahan, R. Mcloughlin ECT Inc. | | | 5/23/2019 | | | |

| | | | | | . N.I | |
|---|--|---|---|---|---|-------------------------------------|
| Site/Project Name | | Application Number | | Assessment Area | a Name or Numbe | r |
| NFRC FGT Corric | dor Alignment | | | W-ECT-N | N-229_3 (W-SRF-1 | 52) |
| Impact or Mitigation | | Assessment conducted by: | | Assessment date | | |
| impact of Miligation | | Assessment conducted by. | | Assessment date | | |
| Impac | ct | T.Callahan, R. Mcloughlin | ECT Inc. | | 5/23/2019 | |
| | | | | | | |
| Scoring Guidance | Optimal (10) | Moderate(7) | М | inimal (4) | Not Presen | t (0) |
| The scoring of each | | Condition is less than | | | | - \-/ |
| indicator is based on what | Condition is optimal and fully | optimal, but sufficient to | Minimal le | evel of support of | Condition is insu | fficient to |
| would be suitable for the | supports wetland/surface | maintain most | | d/surface water | provide wetland | l/surface |
| type of wetland or surface | water functions | wetland/surface water | functions water functions | | | ions |
| water assessed | | functions | | | | |
| | | | | | | |
| .500(6)(a) Location and Landscape Support w/o pres or <u>current</u> with | optimal support for most wild by pine and some urban res between features. Downstrea | ger system that continues both life as there are no major bar sidential properties. Although r m habitats do not appear to b nting the pine the surrounding | riers. The A not hydrolog e hydrologi | A is in a relatively gically connected s cally connected in a | remote location supecies may travers any way. With the | urrounded se freely exception |
| 6 6 | | | | | | |
| .500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 7 7 | levels are appropriate and only potential hydrological st | s present (Inundation, saturati consistent within the heart of t tress comes from the pine pro but Tram road could potentiall | he wetlands duction and | s while the perimet all associated equ | er remains saturat upment. Nearby re | ted. The |
| .500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or The forested portion of the AA is hardwood dominant. The canopy is dense with good representative diversity. Sapling/Shrub layer is overwhelmingly dominant with Titi. Where the AA crosses the FGT corridor a natural disp marsh species can be found. There is normal age and size distribution and plant condition is generally good. There is observed. Conversion to herbaceous will remove structural habitat, but promunderstory species. | | | | | | display of od. There |
| current with | 4 | | | | | |
| 7 3 | | | | | | |
| ·· | | | | | | |
| | | | | | | |
| Score = sum of above scores/30 (if | If preservation as mitigation | ation, | | For impact assess | sment areas | |
| uplands, divide by 20) | | | | • | | ł |
| current | Preservation adjustmer | nt factor = | FL | L = 0.13 x 0.703 = 0 | 0.091 | |
| pr w/o pres with | Adjusted mitigation date | a = 0 | | | | |
| 0.67 0.54 | Adjusted mitigation delt | .a = U | | | |] |
| 0.04 | | | | | | |
| | If mitigation | | I | | | 1 |
| | If mitigation | | F | For mitigation asse | ssment areas | |
| Delta = [with-current] | Time lag (t-factor) = | | | | | 4 |
| | | | RFC | G = delta/(t-factor x | risk) | |
| -0.13 Risk factor = = | | | | | | |

| Site/Project Name | | Application Number | | | Assessment Area Name or Number | | |
|--|--------------------------|---------------------|--|------------------|-----------------------------------|----------------------------|--|
| North Florida Resiliency (| Connection | | | | W-EE-AA-015A | | |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size | |
| 630 | We | tland Forested Mi | xed | | Impact | | |
| | | | | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | on (i.e.0 | DFW, AP, other local/state/federa | designation of importance) | |
| | 3 | | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other su | urface water, upla | nds | | | |
| Unknown; potentially seaonally | connected because th | nere are several is | olated wetlands w | <i>i</i> ithin c | close proximity of one a | nother in this area. | |
| Assessment area description | | | | | | | |
| Medium sized wetla | and depression that ha | s an adjacent acc | ess road. This are | ea also | has planted pines all a | around. | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional | |
| I-10 to the south and is relatively close to a rest stop structure. Hendry Tram Road is to the north. | | | This wetland is typical for the area. | | | | |
| Functions | | | Mitigation for pre | vious | permit/other historic use | 9 | |
| Water quality, ha | abitat, water storage | | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Typical mammals, amphibians, | and fish. Minnows we | re observed. | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or o | other signs such a | is trac | ks, droppings, casings, | nests, etc.): | |
| | | | | | | | |
| | В | irds, amphibians a | and minnows. | | | | |
| Additional relevant factors: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | | |
| J.L. Bell | | | 4/18/2019 | | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-015A Impact or Mitigation Assessment conducted by: Assessment date: J.L. Bell 4/18/2019 **Temporary Impact** Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the wetland/surface water maintain most type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support Has roads nearby, but provides good habitat for wildlife. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) This area is resemblant of a freshwater swamp and has standing water. The wetland provides water quality, water storage, and habitat. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or This wetland has appropriate vegetation. 2. Benthic Community w/o pres or with current 5 5 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.53 0.53 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) = Risk factor =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Numbe | er | | Assessment Area Name | or Number |
|---|--|---------------------|-------------------------------|------------|--|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-A | AA-015B |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 630 | We | tland Forested Mi | xed | | Impact | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ion (i.e.0 | DFW, AP, other local/state/federal | designation of importance) |
| | 3 | | | | | |
| Geographic relationship to and hydr | ologic connection with | wetlands, other su | urface water, upla | nds | | |
| Unknown; potentially seaonally | connected because th | nere are several is | olated wetlands w | vithin c | close proximity of one a | nother in this area. |
| Assessment area description | | | | | | |
| Medium sized wetle | and depression that ha | s an adjacent acc | ess road. This are | ea also | o has planted pines all a | around. |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional |
| I-10 to the south and is relatively Tram Road | close to a rest stop str is to the north. | ucture. Hendry | | This v | wetland is typical for the | e area. |
| Functions | | | Mitigation for pre- | vious | permit/other historic use | 9 |
| Water quality, h | abitat, water storage | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the asses be found) | | | | T, SS | by Listed Species (List s C), type of use, and inte | |
| Typical mammals, amphibians, | and fish. Minnows we | re observed. | | | | |
| Observed Evidence of Wildlife Utiliz | ation (List species dire | ctly observed, or o | other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | | | | | |
| | В | irds, amphibians a | and minnows. | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| J.L. Bell | | | 4/18/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-015B Impact or Mitigation Assessment conducted by: Assessment date: J.L. Bell 4/18/2019 **Temporary Impact** Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the wetland/surface water maintain most type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support Has roads nearby, but provides good habitat for wildlife. w/o pres or current with 5 5 .500(6)(b)Water Environment (n/a for uplands) This area is resemblant of a freshwater swamp and has standing water. The wetland provides water quality, water storage, and habitat. w/o pres or current with 6 6 .500(6)(c)Community structure 1. Vegetation and/or This wetland has appropriate vegetation. 2. Benthic Community w/o pres or with current 5 5 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.53 0.53 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) = Risk factor =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

| Site/Project Name | | Application Numbe | r | | Assessment Area Name | or Number |
|---|--|---|--|-----------|-----------------------------------|------------------------------|
| North Florida Resiliency | Connection | | | | W-EE- | -AA-016 |
| FLUCCs code | Further classificat | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 630 | We | etland Forested Mi | ixed | | Impact | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | s) | Special Classificati | on (i.e.(| OFW, AP, other local/state/federa | I designation of importance) |
| | 3 | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other s | urface water, uplar | nds | | |
| т | his small portion of this | s wetland is conne | ected to a larger po | ortion | to the north. | |
| Assessment area description | | | | | | |
| Thi | is is a small wetland tha | at has planted pin | e and two access | roads | on its fringes. | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsideri | ing the relative rarity in | relation to the regional |
| I-10 to the south, Hendry Tram Road bordered by t | d is to the north, and th two access roads. | his wetland is also Not unique. Mitigation for previous permit/other historic use | | | | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | e |
| Wate | er Storage | | | | | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Amp | phibians | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): |
| | | | | | | |
| | | None | 1 | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | :(s): | | |
| J.L.Bell | | | 4/18/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-016 Impact or Mitigation Assessment conducted by: Assessment date: 4/18/2019 **Temporary Impact** JLB Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface wetland/surface water maintain most type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support This wetland is bordered by two access roads which alter its natural hydrology. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) There is some standing water in this location but only enough to seasonally support some amphibians. w/o pres or current with 4 4 .500(6)(c)Community structure 1. Vegetation and/or The vegetation is disturbed in this particular location because of its close proximity to two access roads. 2. Benthic Community w/o pres or with current 4 4 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.4 0.4 If mitigation For mitigation assessment areas

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Time lag (t-factor) =

Risk factor =

Delta = [with-current]

RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | or Number |
|--|-----------------------------|-----------------------|-------------------------------|------------|--|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE- | AA-017 |
| FLUCCs code | Further classificat | ition (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 617 | Mixe | ed Wetland Hardw | loods | | Impact | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas 3 | ;s) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, upla | nds | | |
| | Adja | icent to I-10, isolat | ted hydrologically | | | |
| Assessment area description | | | | | | |
| The c | depressional wetland is | surrounded by aç | gricultural activities | s and I | I-10 to the south. | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional |
| | I-10 | | | | Not unique | |
| Functions | | | Mitigation for pre | vious | permit/other historic use | 3 |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | | T, SS | by Listed Species (List s C), type of use, and inte | |
| Provides habitat and refuge for sma amphibians. | ગ્રી mammals, resident s | ongbirds, and | | | NA | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | | None | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | ∍(s): | | |
| A Wickman, T Guest | | | 4/18/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-017 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman, T. Guest Temporary Impact 4/18/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by agricultural activities and I-10 to the south. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and unimproved pastures surrounding the wetland. There may be a hydrological connection to northern hardwood swamps. w/o pres or current with 6 6 .500(6)(c)Community structure Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover includes 1. Vegetation and/or cassine holly and wetland sedges and grasses. The eastern and western perimeters have been cut over and 2. Benthic Community revegetated with ruderal species. w/o pres or with current 7 7 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.67 0.67

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Numbe | er | | Assessment Area Name | or Number |
|---|-------------------------------|---------------------|--|------------|------------------------------------|----------------------------|
| North Area Transn | nission | | | | W-EE- | AA-018 |
| FLUCCs code | Further classifica | ation (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 640 | Vegetat | ed Non-Forested \ | Wetlands | | Impact | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas 3 | ss) | Special Classificati | ion (i.e.0 | DFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hyd | rologic connection with | wetlands, other si | urface water, upla | nds | | |
| 1 | solated wetland located | d adjacent to impro | oved pasture and | hardw | ood swamps | |
| Assessment area description | | | | | | |
| The de | epressional wetland has | s been timbered a | nd is revegetating | with s | weetgum saplings | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional |
| | 1-10 | | | | Not unique | |
| Functions | | | Mitigation for pre- | vious | permit/other historic use |) |
| Limited wildlife | habitat, water storage | | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | classification (E, | T, SS | | |
| Low potentia | l for wildlife habitat | | Not unique Mitigation for previous permit/other historic use NA ecies Anticipated Utilization by Listed Species (List species, their legal | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ectly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | | None | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman, T Guest | | | 4/17/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Area Transmission W-EE-AA-018 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman, T Guest 4/17/2019 **Temporary Impact** Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the wetland/surface water maintain most type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support Depressional wetland located within improved and unimproved pastures w/o pres or current with 3 3 .500(6)(b)Water Environment (n/a for uplands) Depressional wetland provides minimal water storage w/o pres or current with 3 3 .500(6)(c)Community structure 1. Vegetation and/or Wetland is vegetated with appropriate wetland sedges and grasses. Sweetgum saplings and bahia grass observed

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)



recruiting within the wetland.

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

with

5

2. Benthic Community

w/o pres or

current 5

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | or Number |
|--|-------------------------------|-----------------------|-------------------------------|-----------|--|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE- | AA-019 |
| FLUCCs code | Further classifica | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size |
| 625 | Hy | ydric Pine Flatwoo | ods | | Impact | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas 3 | ss) | Special Classificati | ON (i.e.0 | OFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hyd | rologic connection with | wetlands, other s | urface water, upla | nds | | |
| | Adja | icent to I-10, isolat | ted hydrologically | | | |
| Assessment area description | | | | | | |
| | The depressi | onal wetland is wi | ithin a planted pine | e fores | st. | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ring the relative rarity in | relation to the regional |
| | I-10 | | | | Not unique | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | ; |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | | T, SS | by Listed Species (List s C), type of use, and inte | |
| Provides habitat and refuge for sma amphibians. | all mammals, resident s | ongbirds, and | | | NA | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | is trac | ks, droppings, casings, | nests, etc.): |
| | | | None | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman, T Guest | | | 4/18/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-019 Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman, T. Guest 4/18/2019 **Temporary Impact** Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to supports wetland/surface provide wetland/surface would be suitable for the maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is within a planted pine forest. w/o pres or current with 4 4 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by pine plantation, but may reconnected within the greater wetland feature. w/o pres or current with 5 5 .500(6)(c)Community structure 1. Vegetation and/or Dominated by pine with little understory due to maintenance. 2. Benthic Community w/o pres or with current 4 4 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.43 0.43 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Risk factor =

RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | or Number |
|--|-----------------------------|----------------------|---------------------------------|------------|--|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-A | A-020A |
| FLUCCs code | Further classificat | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size |
| 617 | Mixe | ed Wetland Hardw | loods | | Impact | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas 3 | ss) | Special Classificati | ion (i.e.0 | OFW, AP, other local/state/federal | designation of importance) |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, upla | nds | | |
| | Adja | cent to I-10, isolat | ted hydrologically | | | |
| Assessment area description | | | | | | |
| The c | depressional wetland is | surrounded by aç | ງricultural activities | s and I | I-10 to the south. | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ring the relative rarity in | relation to the regional |
| | I-10 | | | | Not unique | |
| Functions | | | Mitigation for pre [,] | vious | permit/other historic use | 3 |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | | T, SS | by Listed Species (List s C), type of use, and inte | |
| Provides habitat and refuge for sma amphibians. | all mammals, resident s | ongbirds, and | NA | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such <i>e</i> | as trac | ks, droppings, casings, | nests, etc.): |
| | | | None | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | ə(s): | | |
| A Wickman, T Guest | | | 4/18/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-020A Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman, T. Guest Temporary Impact 4/18/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than Minimal level of support of indicator is based on what Condition is optimal and fully optimal, but sufficient to Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by agricultural activities and I-10 to the south. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and unimproved pastures surrounding the wetland. There may be a hydrological connection to northern hardwood swamps. w/o pres or current with 6 6 .500(6)(c)Community structure Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover includes 1. Vegetation and/or cassine holly and wetland sedges and grasses. The eastern and western perimeters have been cut over and 2. Benthic Community revegetated with ruderal species. w/o pres or with current 7 7 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.67 0.67

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Numbe | ər | | Assessment Area Name | or Number |
|--|-----------------------------|-----------------------|-------------------------------|--------------------|--|------------------------------|
| North Florida Resiliency | Connection | | | | W-EE-/ | AA-020B |
| FLUCCs code | Further classificat | ition (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size |
| 617 | Mixe | ed Wetland Hardw | loods | | | |
| Basin/Watershed Name/Number HUC 10 Alligator Creek-Aucilla River | Affected Waterbody (Clas 3 | ;s) | Special Classificati | ion (i.e.(| OFW, AP, other local/state/federa | l designation of importance) |
| Geographic relationship to and hydr | rologic connection with | wetlands, other s | urface water, upla | nds | | |
| | Adja | icent to I-10, isolat | ted hydrologically | | | |
| Assessment area description | | | | | | |
| The c | depressional wetland is | surrounded by aç | gricultural activities | s and ^I | I-10 to the south. | |
| Significant nearby features | | | Uniqueness (co landscape.) | nsider | ing the relative rarity in | relation to the regional |
| | I-10 | | | | Not unique | |
| Functions | | | Mitigation for pre | vious | permit/other historic us | е |
| Water quality, wate | er storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | | T, SS | by Listed Species (List s C), type of use, and inte | |
| Provides habitat and refuge for sma amphibians. | ગ્રી mammals, resident s | ongbirds, and | NA | | | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings, | nests, etc.): |
| | | | None | | | |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman, T Guest | | | 4/18/2019 | | | |

Application Number Site/Project Name Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-020B Impact or Mitigation Assessment conducted by: Assessment date: A. Wickman, T. Guest Temporary Impact 4/18/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface functions water functions water assessed waterfunctions .500(6)(a) Location and Landscape Support The depressional wetland is surrounded by agricultural activities and I-10 to the south. w/o pres or current with 7 7 .500(6)(b)Water Environment (n/a for uplands) The wetland is a small depressional wetland. The hydrology has been impacted by the construction of I-10 to the south and unimproved pastures surrounding the wetland. There may be a hydrological connection to northern hardwood swamps. w/o pres or current with 6 6 .500(6)(c)Community structure Appropriate vegetation which includes red maple, sweetbay, and bald cypress. Understory and groundcover includes 1. Vegetation and/or cassine holly and wetland sedges and grasses. The eastern and western perimeters have been cut over and 2. Benthic Community revegetated with ruderal species. w/o pres or with current 7 7 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta = 0.67 0.67

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

Delta = [with-current]

If mitigation

Risk factor =

Time lag (t-factor) =

For mitigation assessment areas

RFG = delta/(t-factor x risk) =

| Site/Project Name | ! | Application Numbe | ər | | Assessment Area Name | or Number | |
|---|---------------------------|--------------------|--|------------|-----------------------------------|-------------------------------|--|
| North Florida Resiliency | Connection | | | | W-EC | CT-AA-025B | |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size | |
| 630 | We | etland Forested Mi | ixed | | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | | Special Classificati | ion (i.e.(| OFW, AP, other local/state/federa | al designation of importance) | |
| St Marks River | | | | | | | |
| Geographic relationship to and hydro | ologic connection with | wetlands, other su | urface water, uplar | nds | | | |
| Assessment area description | | | | | | | |
| Significant nearby features | | | Uniqueness (con landscape.) | nsider | ing the relative rarity ir | n relation to the regional | |
| Distribution | line cut adjacent to I-10 | | , | | | | |
| Functions | | | Mitigation for prev | vious (| permit/other historic us | .e | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| r | none | | | | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species dire | ctly observed, or | other signs such a | as trac | ks, droppings, casings | , nests, etc.): | |
| | | None | ; | | | | |
| Additional relevant factors: | | | | | | | |
| This drainage flows from culvert und | ler I-10 to small wetlan | d depression in co | ow field | | | | |
| Assessment conducted by:! | | | Assessment date | ;(s): | | | |
| Steve Florey | | | 2/2/2019 | | | | |

Site/Project Name Application Number Assessment Area Name or Number North Florida Resiliency Connection W-ECT-AA-025B Impact or Mitigation Assessment conducted by: Assessment date: 2/2/2019 Impact Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to provide wetland/surface would be suitable for the supports wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support Adjacent to I-10 w/o pres or current with 2 3 .500(6)(b)Water Environment (n/a for uplands) Intermittent w/o pres or current with 3 3 .500(6)(c)Community structure 1. Vegetation and/or Little vegetation and diversity 2. Benthic Community w/o pres or with current 3 4 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = 0.06 x 0.0001 = 0.00001 with r w/o pres Adjusted mitigation delta = 0.33 0.27 If mitigation For mitigation assessment areas Delta = [with-current] Time lag (t-factor) = RFG = delta/(t-factor x risk) =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Form 62-345.900(2), F.A.C. [effective date 02-04-2004]

0.06

Risk factor =

| Site/Project Name | | Application Numbe | r | | Assessment Area Name | or Number |
|---|----------------------------|-------------------------------|-------------------------------|-----------|---|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-A | A-026A |
| FLUCCs code | Further classifica | tion (optional) | | Impac | t or Mitigation Site? | Assessment Area Size |
| 646 | Mixe | d Scrub-shrub We | etland | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.C | DFW, AP, other local/state/federa | designation of importance) |
| | III | | none | | | |
| Geographic relationship to and hydr | rologic connection with | wetlands, other su | ırface water, uplar | nds | | |
| Tł | nis wetland connects to | a larger system th | nat extends to the | north a | and the south. | |
| Assessment area description | | | | | | |
| The wetland is adjacent and within | a dirt farm road. The a | ssessment area i not fores | | and she | oulders adjacent to the | road. These areas are |
| Significant nearby features | | | Uniqueness (co landscape.) | nsideri | ing the relative rarity in | relation to the regional |
| Young p | ine plantation | | | | not unique | |
| Functions | | | Mitigation for prev | vious p | permit/other historic use | ; |
| water storage, wildlife h | abitat, water quality trea | itment | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | | T, SSC | y Listed Species (List s C), type of use, and inte | |
| snakes, birds, de | eer, raccoon, opossum | | | | none | |
| Observed Evidence of Wildlife Utiliz | zation (List species dire | ctly observed, or o | other signs such a | s track | s, droppings, casings, | nests, etc.): |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| This wetland extends through the ro adjacent to the road that was inund | | | of the site visit. Th | ne wetl | and is connected to a b | orrow area immediately |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| E Peppers, A Phillips | | | 4/16/2019 | | | |

Site/Project Name Application Number Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-026A Impact or Mitigation Assessment conducted by: Assessment date: E Peppers, A Phillips Temporary Impact 4/16/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This wetland has been impacted by pine plantation and a dirt road. The lands surrounding this wetland have had a lot of mechanical disturbance. It appears that the dirt for the road may have been excavated from the adjacent lands, forming linear borrow areas that are inundated and connect to the natural wetland. w/o pres or current with 3 3 .500(6)(b)Water Environment (n/a for uplands) The assessment area is within and immediately adjacent to the dirt farm road. The hydrology is disrupted by the road. The majority of the wetland area is within the compacted dirt road, thus its primary remaining function is to aid with water conveyance. w/o pres or current with 3 3 .500(6)(c)Community structure 1. Vegetation and/or The vegetation is primarily herbaceous species within the road. There are a few shrubs on the adjacent shoulder, but 2. Benthic Community a large part of the wetland is dirt. n/o pres or with current 3 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres Adjusted mitigation delta =

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

 Score = sum of above scores/30 (if uplands, divide by 20) current
 If preservation as mitigation,
 For impact assessment areas

 pr w/o pres
 with

 0.3
 0.3

 Delta = [with-current]
 If mitigation

 Time lag (t-factor) =
 RFG = delta/(t-factor x risk) =

 RFG = delta/(t-factor x risk) =

| Site/Project Name | | Application Numbe | r | | Assessment Area Name | or Number |
|---|----------------------------|---------------------------------|-------------------------------|-----------|---|------------------------------|
| North Florida Resiliency | Connection | | | | W-EE- | AA-026B |
| FLUCCs code | Further classifica | tion (optional) | | Impact | or Mitigation Site? | Assessment Area Size |
| 646 | Mixe | d Scrub-shrub We | etland | Impact | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | ss) | Special Classificati | ON (i.e.O | FW, AP, other local/state/federa | l designation of importance) |
| | III | | none | | | |
| Geographic relationship to and hyd | rologic connection with | wetlands, other su | ırface water, uplar | nds | | |
| וד | nis wetland connects to | a larger system th | at extends to the | north a | nd the south. | |
| Assessment area description | | | | | | |
| The wetland is adjacent and within | n a dirt farm road. The a | nssessment area in not fores | | and sho | oulders adjacent to the | road. These areas are |
| Significant nearby features | | | Uniqueness (co landscape.) | nsideri | ng the relative rarity in | relation to the regional |
| Young p | ine plantation | | | | not unique | |
| Functions | | | Mitigation for prev | vious p | ermit/other historic use | 9 |
| water storage, wildlife h | abitat, water quality trea | atment | | | | |
| Anticipated Wildlife Utilization Base that are representative of the asses be found) | | | | T, SSC | y Listed Species (List s C), type of use, and inte | |
| snakes, birds, de | eer, raccoon, opossum | | | | none | |
| Observed Evidence of Wildlife Utili: | zation (List species dire | ctly observed, or o | other signs such a | s track | s, droppings, casings, | nests, etc.): |
| | | | | | | |
| Additional relevant factors: | | | | | | |
| This wetland extends through the ro adjacent to the road that was inund | | | of the site visit. Th | ie wetla | and is connected to a b | porrow area immediately |
| Assessment conducted by: | | | Assessment date | (s): | | |
| E Peppers, A Phillips | | | 4/16/2019 | | | |

Site/Project Name Application Number Assessment Area Name or Number North Florida Resiliency Connection W-EE-AA-026B Impact or Mitigation Assessment conducted by: Assessment date: E Peppers, A Phillips Temporary Impact 4/16/2019 Scoring Guidance Optimal (10) Moderate(7) Minimal (4) Not Present (0) The scoring of each Condition is less than indicator is based on what Condition is optimal and fully optimal, but sufficient to Minimal level of support of Condition is insufficient to would be suitable for the supports wetland/surface provide wetland/surface maintain most wetland/surface water type of wetland or surface water functions wetland/surface water functions water functions water assessed functions .500(6)(a) Location and Landscape Support This wetland has been impacted by pine plantation and a dirt road. The lands surrounding this wetland have had a lot of mechanical disturbance. It appears that the dirt for the road may have been excavated from the adjacent lands, forming linear borrow areas that are inundated and connect to the natural wetland. w/o pres or current with 3 3 .500(6)(b)Water Environment (n/a for uplands) The assessment area is within and immediately adjacent to the dirt farm road. The hydrology is disrupted by the road. The majority of the wetland area is within the compacted dirt road, thus its primary remaining function is to aid with water conveyance. w/o pres or current with 3 3 .500(6)(c)Community structure 1. Vegetation and/or The vegetation is primarily herbaceous species within the road. There are a few shrubs on the adjacent shoulder, but 2. Benthic Community a large part of the wetland is dirt. n/o pres or with current 3 3 Score = sum of above scores/30 (if If preservation as mitigation, For impact assessment areas uplands, divide by 20) Preservation adjustment factor = current FL = delta x acres = with w/o pres

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

 current
 If reservation adjustment actor =

 w/o pres
 with

 0.3
 0.3

 Delta = [with-current]
 If mitigation

 Time lag (t-factor) =
 Risk factor =

 Risk factor =
 RFG = delta/(t-factor x risk) =

| Site/Project Name | , | Application Numbe | ər | | Assessment Area Name | or Number |
|--|----------------------------|---------------------|--------------------------------|-----------|--|----------------------------|
| North Florida Resiliency | Connection | | | | W-EE-A | AA-027 |
| FLUCCs code | Further classificat | tion (optional) | | Impac | ct or Mitigation Site? | Assessment Area Size |
| 617 | Міхє | ed Wetland Hardw | voods | | | |
| Basin/Watershed Name/Number | Affected Waterbody (Clas | <u> </u> | Special Classificat | ion (i.e. | OFW, AP, other local/state/federal | designation of importance) |
| HUC 10 Alligator Creek-Aucilla River | 3 | | | | | uesignation of impostances |
| Geographic relationship to and hydro | ologic connection with v | wetlands, other su | Irface water, uplan | ds | | |
| | | Adjacent to | o I-10 | | | |
| Assessment area description | | | | | | |
| | | Depressional | wetland | | | |
| Significant nearby features | | | Uniqueness (cor landscape.) | nsider | ring the relative rarity in r | relation to the regional |
| | I-10 | | | | Not unique | |
| Functions | | | Mitigation for prev | vious | permit/other historic use | |
| Water quality, water | r storage, wildlife habita | at | | | NA | |
| Anticipated Wildlife Utilization Based that are representative of the assess be found) | | | | T, SSO | by Listed Species (List sp C), type of use, and inter | |
| Provides habitat and refuge for sma woodpeckers, resident songbirds, an | | rds, | NA | | | |
| Observed Evidence of Wildlife Utiliza | ation (List species direc | otly observed, or o | L ther signs such as | s track | s, droppings, casings, ne | ests, etc.): |
| | Deer, pil | leated woodpecke | er, resident songbir | ds | | |
| Additional relevant factors: | | | | | | |
| | | | | | | |
| | | | | | | |
| Assessment conducted by: | | | Assessment date | e(s): | | |
| A Wickman and N Calhoun | | | 2/5/2019 | () | | |

| Site/Project Name | | | Application Number | | Assessment Area | Name or Number | | | | | | |
|---|---------------|---|---|----------------|--|--|-----------|--|--|--|--|--|
| - | orida Resilie | ncy Connection | | | w | -EE-AA-027 | | | | | | |
| mpact or Mitigation | | | Assessment conducted by: | | Assessment date: | | | | | | | |
| | Temporary | Impact | A. Wickman and N. Cal | houn | | 2/5/2019 | | | | | | |
| Scoring Guidance | | Optimal (10) | Moderate(7) | Mi | nimal (4) | Not Preser | nt (0) | | | | | |
| The scoring of each indicator is based on w would be suitable for t type of wetland or surfa water assessed | /hat he | Condition is optimal and fully supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | wetland | evel of support of /surface water unctions | Condition is insu provide wetland water func | d/surface | | | | | |
| .500(6)(a) Locatic Landscape Sup | | The wetla | and is located adjacent to Inters | state I-10 and | d a coniferous plar | ntation. | | | | | | |
| v/o pres or current | with | | | | | | | | | | | |
| 6 | 6 | • | | | | | | | | | | |
| .500(6)(b)Water Env (n/a for upland v/o pres or current | | The wetland is depressional v | with standing water. The hydrol south and a farm re | | | construction of I-1 | 0 to the | | | | | |
| 6 | 6 | | | | | | | | | | | |
| .500(6)(c)Community 1. Vegetation a | | | h includes red maple and swee | athay with an | understory of titi | Groundcover con | sists of | | | | | |
| 2. Benthic Comm | | | wetland sedges | | | | 51515 01 | | | | | |
| v/o pres or current 7 | with 7 | - | | | | | | | | | | |
| Score = sum of above s | cores/20 /# | If preservation as mitiga | tion | | For impact assess | montarcas | 1 | | | | | |
| uplands, divide b current or w/o pres | | Preservation adjustmen Adjusted mitigation delta | t factor = | | delta x acres = | | - | | | | | |
| 0.63 | 0.63 |] ' | | L | | | | | | | | |
| Delta = [with-cur | rentl | If mitigation Time lag (t-factor) = | | F | or mitigation asses | ssment areas |] | | | | | |
| | iong | | | RFG | = delta/(t-factor x r | isk) = | | | | | | |
| | | Risk factor = | | | , | , | J | | | | | |