

June 23, 2021

Lisa Prather

South Florida Water Management District
Orlando Service Center
1707 Orlando Central Parkway; Suite 200
Orlando, Florida 32809

Proj: Fontana; Osceola County, Florida

Sections 27, 28, 33, & 34, Township 26 South, Range 30 East

(BTC File # 494-25)

Re: Request for Additional Information;

Application No. 210308-5538

Dear Mrs. Prather:

We are corresponding in order to respond to the South Florida Water Management District's (SFWMD) April 6, 2021, letter to Mr. Jeffry Fuqua, of Fontana Lakes, LLC. The following questions and responses are in order to provide additional information:

ENVIRONMENTAL COMMENTS:

2. Please contact Lisa Prather, the environmental reviewer, at 407-858-6100 ext. 3818 to arrange a field inspection to verify the mitigation scoring. If changes are made during the inspection, a revised Section C will be required. [Section C, Form 62-330.060(1), F.A.C.]

A site inspection was conducted on April 28, 2021 between BTC staff (Butler) and SFWMD staff (Prather) to inspect those areas associated with Wetland 16 impacts and it's UMAM scores as these impacts were not part of the original Fontana Conceptual ERP.

However, based upon site plan revisions driven by FDEP's Division of State Lands (DSL) and the "Safe Upland Line" of 55.0 NGVD29 datum (54.0 NAVD88 datum), the highest regulated stage for Lake Tohopekaliga, the project's direct and secondary impacts have changed slightly. The modifications are based upon removal of direct impacts waterward of the SSL elevation.

Orlando: Main Office 3025 East South Street Orlando. FL 32803

Vero Beach Office 4445 N A1A Suite 221 Vero Beach, FL 32963

Jacksonville Office 1157 Beach Boulevard Jacksonville Beach, FL 32250

Tampa Office 6011 Benjamin Road Suite 101 B Tampa, FL 33634

Key West Office 1107 Key Plaza Suite 259 Key West, FL 33040

Aquatic & Land Management Operations 3825 Rouse Road Orlando, FL 32817

407.894.5969 877.894.5969 407.894.5970 fax Lisa Prather; SFWMD Fontana (BTC File #494-25) SFWMD RAI Response Page 2 of 3

However, it should also be noted that as confirmed by FDEP DSL staff (Malloy, Woolam), the small, historically upland excavated "finger" that included portions waterward of the SSL elevation was determined by staff to NOT be considered as SSL. As such, impacts to this finger may be authorized by District staff.

Accordingly, please find attached the following documents which have been revised to reflect the site plan modifications per the above SSL elevations:

- Tables 1-3, Section E;
- Section C;
- UMAM Summary Worksheet; and,
- UMAM Parts I & II

Additionally, please find attached "Surface Water Impacts Key Map" and "Wetland Impact Key Map"; which are consistent with the above as well as the revised construction plans to be submitted by the project engineer.

Based on the above information, mitigation to offset the functional losses incurred via the project's 40.699 acres of direct wetland impact that require mitigation and 1.90 acres of secondary impact consists of the purchase of off-site mitigation (functional gain) from an approved mitigation bank within the same drainage basin (Lake Tohopekaliga) as the project site. (Final mitigation will be discussed with and approved by District staff).

As detailed in the attached UMAM Summary, the project's 40.699 acres of direct wetland/surface water impact and 1.90 acres of secondary impact account for a total of 24.33 units of functional loss (FL). As specified above, to offset these losses, a total of 24.33 units of functional gain (FG) will be purchased from an approved off-site mitigation bank within the same drainage basin (Lake Tohopekaliga) as the project site. As such, the purchase of 24.33 FG via UMAM mitigation credits offsets the 24.33 FL.

4. Staff has reviewed the UMAM tables provided. There are some minor rounding errors in the table that result in a minor change in the overall functional loss. The District calculates the loss to be 24.32 units. [Section 10.3, Vol. I]

Please find attached UMAM scores. If there are rounding differences based upon the District's system, please let me know and I will modify BTC's submitted UMAM scores to reflect the District's scores.



Lisa Prather; SFWMD Fontana (BTC File #494-25) SFWMD RAI Response Page 3 of 3

Should you have any questions or require any additional information, please do not he sitate to contact our office at (407) 894-5969. Thank you.

Regards,

Stephen Butler Project Manager

John Miklos President

Attachments



TABLE 1. PROJECT WETLAND (WL) AND OTHER SURFACE WATER (SW) SUMMARY

| WL & SW ID | WL & SW TYPE | WL & SW SIZE | WL & SW NOT IMPACTED | TEMPOR | ARY WL & SW | IMPACTS | PERMAN | NENT WL & SW 1 | MPACTS | MITIGATION |
|-------------------|-----------------|-----------------|----------------------------|-----------------|----------------|----------------|-----------------|------------------------|----------------|------------|
| | | (acres) | (acres) | WL & SW TYPE | IMPACT SIZE | IMPACT CODE | WL & SW TYPE | IMPACT SIZE (acres) | IMPACT CODE | ID |
| W-1 | 641 | 0.49 | 0.00 | | | | 641 | 0.49 | F | NR |
| W-2 | 640 | 0.86 | 0.00 | | | | 640 | 0.86 | F | M1 |
| W-3 | 641 | 11.43 | 0.00 | | | | 641 | 11.43 | D/F | M1 |
| W-4 | 630 | 1.75 | 0.00 | | | | 630 | 1.75 | F | M1 |
| W-5 | 641 | 1.10 | 0.00 | | | | 641 | 1.10 | F | M1 |
| W-6 | 641 | 1.66 | 0.00 | | | | 641 | 1.66 | D/F | M1 |
| W-7 | 640 | 0.89 | 0.00 | | | | 640 | 0.89 | D/F | M1 |
| W-8 | 641 | 1.45 | 0.00 | | | | 641 | 1.45 | F | M1 |
| W-9 | 640 | 0.68 | 0.00 | | | | 640 | 0.68 | F | M1 |
| W-10 | 640 | 0.84 | 0.00 | | | | 640 | 0.84 | D/F | M1 |
| W-11 | 641 | 6.47 | 6.39 | | | | 641 | 0.08 | F | N/A |
| W-12 | 640 | 2.38 | 0.00 | | | | 640 | 2.38 | D/F | M1 |
| W-13 | 641 | 4.83 | 0.00 | | | | 641 | 4.83 | D/F | M1 |
| W-14 | 641 | 24.13 | 11.44 | | | | 641 | 12.69 | D/F | M1 |
| W-15 | 619 | 5.12 | 5.12 | | | | | | | N/A |
| PROJECT TOTALS | | | | | | | | | | |

Comments: FLUCFCS - Florida Land Use, Cover and Forms Classification System

| CODES (multiple entries per cell not allowed): |
|---|
| Wetland Type: from an established wetland classification system (see Section E, 111b. |
| Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other |
| FORM NUMBER 40C-4.900(1) |
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| Reviewer: | | | | |
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TABLE 1. PROJECT WETLAND (WL) AND OTHER SURFACE WATER (SW) SUMMARY

| WL & SW ID | WL & SW TYPE | WL & SW SIZE | WL & SW NOT IMPACTED | TEMPOR | ARY WL & SW | IMPACTS | PERMAN | NENT WL & SW | IMPACTS | MITIGATION |
|-------------------|-----------------|-----------------|----------------------------|-----------------|----------------|----------------|-----------------|------------------------|----------------|------------|
| | | (acres) | (acres) | WL & SW TYPE | IMPACT SIZE | IMPACT CODE | WL & SW TYPE | IMPACT SIZE (acres) | IMPACT CODE | ID |
| W-16 | 521 | 15.77 | 15.72 | | | | 521 | 0.05 | D/F | M1 |
| SW-1 | 534 | 0.38 | 0.00 | | | | 534 | 0.38 | D/F | NR |
| SW-2 | 534 | 0.37 | 0.00 | | | | 534 | 0.37 | D/F | NR |
| D-1 | 510 | 0.22 | 0.00 | | | | 510 | 0.22 | D/F | NR |
| D-2 | 510 | 0.06 | 0.00 | | | | 510 | 0.06 | D/F | NR |
| D-3 | 510 | 3.15 | 0.00 | | | | 510 | 3.15 | D/F | NR |
| D-4 | 510 | 0.18 | 0.00 | | | | 510 | 0.18 | D/F | NR |
| D-5 | 510 | 0.12 | 0.00 | | | | 510 | 0.12 | D/F | NR |
| D-6 | 510 | 1.30 | 0.00 | | | | 510 | 1.30 | D/F | NR |
| D-7 | 510 | 0.38 | 0.00 | | | | 510 | 0.38 | D/F | NR |
| D-8 | 510 | 1.04 | 0.00 | | | | 510 | 1.04 | D/F | NR |
| D-9 | 510 | 1.05 | 0.00 | | | | 510 | 1.05 | D/F | NR |
| D-10 | 510 | 0.02 | 0.00 | | | | 510 | 0.02 | D/F | NR |
| D-11 | 510 | 0.47 | 0.00 | | | | 510 | 0.47 | D/F | NR |
| D-12 | 510 | 0.19 | 0.00 | | | | 510 | 0.19 | D/F | NR |
| PROJECT TOTALS | | | | | | | | | | |

Comments: FLUCFCS - Florida Land Use, Cover and Forms Classification System

CODES (multiple entries per cell not allowed):
Wetland Type: from an established wetland classification system (see Section E, 111b.)
Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other
FORM NUMBER 40C-4.900(1)

| Reviewer: |
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|-----------|

TABLE 1. PROJECT WETLAND (WL) AND OTHER SURFACE WATER (SW) SUMMARY

| WL & SW ID | WL & SW TYPE | WL & SW SIZE | WL & SW NOT IMPACTED | TEMPOR | ARY WL & SW | IMPACTS | PERMAN | NENT WL & SW | IMPACTS | MITIGATION |
|-------------------|-----------------|-----------------|----------------------------|-----------------|----------------|----------------|-----------------|------------------------|----------------|------------|
| | | (acres) | (acres) | WL & SW TYPE | IMPACT SIZE | IMPACT CODE | WL & SW TYPE | IMPACT SIZE (acres) | IMPACT CODE | ID |
| D-13 | 510 | 8.44 | 0.00 | | | | 510 | 8.44 | D/F | NR |
| D-14 | 510 | 0.16 | 0.00 | | | | 510 | 0.16 | D/F | NR |
| D-15 | 510 | 12.14 | 7.90 | | | | 510 | 4.24 | D/F | NR |
| D-16 | 510 | 3.08 | 0.71 | | | | 510 | 2.37 | D/F | NR |
| D-17 | 510 | 2.60 | 0.00 | | | | 510 | 2.60 | D/F | NR |
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| PROJECT TOTALS | | 115.20 | 47.28 | | | | | 67.92 | | |

Comments: FLUCFCS - Florida Land Use, Cover and Forms Classification System

| | 115.20 |
|--|-----------|
| CODES (multiple entries per cell not allowed): | |
| Wetland Type: from an established wetland classification system (see Section E, 111b.) | |
| Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other | Reviewer: |
| FORM NUMBER 40C-4.900(1) | |

TABLE 2: PROJECT ON-SITE MITIGATION SUMMARY

| MITIGATION ID | CRI | CREATION RESTORATION ENHANCEMENT | | WETLAND PRESERVATION | | UPLAND PRESERVATION | | OTHER | | | | |
|--------------------|------|----------------------------------|--------------|-------------------------|------|------------------------|--------------|-------|------|--------|------|--------|
| | AREA | TARGET TYPE | AREA (acres) | TARGET TYPE | AREA | TARGET TYPE | AREA (acres) | TYPE | AREA | TARGET | AREA | TARGET |
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| PROJECT TOTALS: | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |

Comments:

CODES (multiple entries per cell not allowed):
Target Type or Type = target or existing habitat type from an established wetland classification
system or land use classification for non-wetland mitigation
Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other
FORM NUMBER 40C-4.900(1)

Reviewer: _____

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TABLE 3: PROJECT OFF-SITE MITIGATION SUMMARY

| MITIGATION ID | CRI | EATION | RESTO | PRATION | ENHAN | CEMENT | WETI PRESER | LAND VATION | | AND VATION | ОТ | HER |
|--------------------|------|----------------|-------|----------------|-------|----------------|----------------|----------------|------|---------------|-------|----------|
| | AREA | TARGET TYPE | AREA | TARGET TYPE | AREA | TARGET TYPE | AREA | TYPE | AREA | TARGET | AREA | TARGET |
| | | | | | | | | | | | | |
| M1 | | | | | | | | | | | 24.33 | CR* |
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| DDO IECT | | | | | | | | | | | | |
| PROJECT TOTALS: | 0 | | 0 | | 0 | | 0 | | 0 | | 24.33 | |

| CODES (multiple entries per cell not allowed): | | |
|--|-------------|-----------|
| Target Type or Type = target or existing habitat type from an established wetland classification | | |
| system or land use classification for non-wetland mitigation | | |
| Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other | | Reviewer: |
| FORM NUMBER 40C-4.900(1) | Pg 10 of 12 | |

(*) TO BE PURCHASED FROM AN APPROVED MITIGATION BANK.

Comments:

SECTION C: SUPPLEMENTAL INFORMATION FOR WORKS OR OTHER ACTIVITIES IN, ON, OR OVER WETLANDS AND/OR OTHER SURFACE WATERS

(Note: This section is not required if all the proposed activities are covered in Section B.)

Instructions: This section is for ERP applications that do not involve activities associated with an individual single-family residence, duplex, triplex or quadruplex. For those activities, please use Section B. This form is to be completed if the proposed work or activity will occur in, on, over, or within 25 feet of a wetland or other surface water. The supplemental information required by this section is in addition to the information required by Section A of the ERP application.

| system to service a mixed use development, known as Fontana Lakes. Total area of work (dredging, filling, construction, alteration, or removal) in, on, or over wother surface waters: sq. ft.; 67.92 ac ac. Total volume of material in wetlands or other surface waters: a. to be dredged: cubic yards, b. to be filled: cubic yards. Identify the seasonal high water level (SHWL) and wetland normal pool elevations for each surface water within the project site. For tidal wetlands and/or surface waters provide the endean high and mean low water. Include an aerial photograph showing the location of each location, dates, datum, and methods used to determine these elevations. TBD Name of waterbody(ies) (if applicable & if known) in which work will occur? Friars Cove Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve? yes, name: no I don't know Has there ever been a formal or informal wetland determination for the project site? If yes identifying number and/ or a copy of the jurisdictional map. Yes, 140507-7 Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil that ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPONENTIAL CONSTRAINTS ANALYSIS REPONENTIAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPONEN | ERF | Papplication. |
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| system to service a mixed use development, known as Fontana Lakes. Total area of work (dredging, filling, construction, alteration, or removal) in, on, or over wother surface waters: sq. ft.; 67.92 ac ac. Total volume of material in wetlands or other surface waters: a. to be dredged: cubic yards, b. to be filled: cubic yards. Identify the seasonal high water level (SHWL) and wetland normal pool elevations for each surface water within the project site. For tidal wetlands and/or surface waters provide the endean high and mean low water. Include an aerial photograph showing the location of each location, dates, datum, and methods used to determine these elevations. TBD Name of waterbody(ies) (if applicable & if known) in which work will occur? Friars Cove Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve? yes, name: no I don't know Has there ever been a formal or informal wetland determination for the project site? If yes identifying number and/ or a copy of the jurisdictional map. Yes, 140507-7 Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil that ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPONENTIAL CONSTRAINTS ANALYSIS REPONENTIAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPONEN | PA | RT 1: WETLAND OR OTHER SURFACE WATER IMPACT SUMMARY |
| other surface waters: sq. ft.; 67.92 ac ac. 3. Total volume of material in wetlands or other surface waters: a. to be dredged: cubic yards, b. to be filled: cubic yards. 4. Identify the seasonal high water level (SHWL) and wetland normal pool elevations for eac surface water within the project site. For tidal wetlands and/or surface waters provide the mean high and mean low water. Include an aerial photograph showing the location of eac location, dates, datum, and methods used to determine these elevations. TBD 5. Name of waterbody(ies) (if applicable & if known) in which work will occur? Friars Cove 6. Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve? ☐ yes, name: ☐ I don't know 7. Has there ever been a formal or informal wetland determination for the project site? If yes identifying number and/ or a copy of the jurisdictional map. Yes, 140507-7 8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil t ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPO | 1. | • |
| a. to be dredged: cubic yards, b. to be filled: cubic yards. 4. Identify the seasonal high water level (SHWL) and wetland normal pool elevations for eac surface water within the project site. For tidal wetlands and/or surface waters provide the mean high and mean low water. Include an aerial photograph showing the location of eac location, dates, datum, and methods used to determine these elevations. TBD 5. Name of waterbody(ies) (if applicable & if known) in which work will occur? Friars Cove 6. Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve? ☐ yes, name: ☐ I don't know 7. Has there ever been a formal or informal wetland determination for the project site? If yes identifying number and/ or a copy of the jurisdictional map. Yes, 140507-7 8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil t ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPOVICE. 9. Provide recent aerials, legible for photointerpretation (no photocopies) with a scale of 1" = more detailed, with project boundaries and wetland boundaries delineated on the states. 1. **Identify the seasonal high water of SHWL) and wetland boundaries delineated on the states. 1. **Identify the seasonal high water of SHWL) and wetland boundaries delineated on the states. 2. **Identify the seasonal high water of SHWL) and wetland boundaries delineated on the states. 3. **Identify the seasonal high water of SHWL) and wetland boundaries delineated on the states. 4. **Identify the seasonal high water of SHWL) and wetland boundaries delineated on the states. 4. **Identify the seasonal high water of SHWL) and wetland boundaries delineated on the states. 4. **Identify the seasonal high water of SHWL) and wetland houndaries delineated on the states. 4. **Identify the seasonal high water of SHWL) and wetland houndaries delineated on the states. 4. **Identify the seasonal high water of SHWL) and wetland houndaries delineated on the states. 4. **Identify the seas | 2. | Total area of work (dredging, filling, construction, alteration, or removal) in, on, or over wetlands or other surface waters: sq. ft.; 67.92 ac ac. |
| surface water within the project site. For tidal wetlands and/or surface waters provide the mean high and mean low water. Include an aerial photograph showing the location of eac location, dates, datum, and methods used to determine these elevations. TBD 5. Name of waterbody(ies) (if applicable & if known) in which work will occur? Friars Cove 6. Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve? ☐ yes, name: ☐ I don't know 7. Has there ever been a formal or informal wetland determination for the project site? If yes identifying number and/ or a copy of the jurisdictional map. Yes , 140507-7 8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil the ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT Provide recent aerials, legible for photointerpretation (no photocopies) with a scale of 1" = more detailed, with project boundaries and wetland boundaries delineated on the states. | 3. | a. to be dredged: cubic yards, |
| Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve? | 4. | Identify the seasonal high water level (SHWL) and wetland normal pool elevations for each wetland or surface water within the project site. For tidal wetlands and/or surface waters provide the elevation of mean high and mean low water. Include an aerial photograph showing the location of each sampling location, dates, datum, and methods used to determine these elevations. TBD |
| yes, name: | 5. | Name of waterbody(ies) (if applicable & if known) in which work will occur? Friars Cove |
| identifying number and/ or a copy of the jurisdictional map. Yes, 140507-7 8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil t ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORTS 9. Provide recent aerials, legible for photointerpretation (no photocopies) with a scale of 1" = more detailed, with project boundaries and wetland boundaries delineated on the area. | 6. | · · · · · · · · · · · · · · · · · · · |
| 9. Provide recent aerials, legible for photointerpretation (no photocopies) with a scale of 1" = more detailed, with project boundaries and wetland boundaries delineated on the a | 7. | Has there ever been a formal or informal wetland determination for the project site? If yes, provide the identifying number and/ or a copy of the jurisdictional map. Yes, 140507-7 |
| more detailed, with project boundaries and wetland boundaries delineated on the | 8. | Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil types. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT |
| | 9. | Provide recent aerials, legible for photointerpretation (no photocopies) with a scale of 1" = 400 ft, or more detailed, with project boundaries and wetland boundaries delineated on the aerial. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT |

10. Provide existing and proposed maps indicating vegetative community types based on Florida Land Use and Cover Classification System (FLUCCS) (FDOT 1999). For vegetated areas dominated by exotic vegetation, use the FLUCCS code representative of the native community type that was present prior to exotic infestation. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT

- 11. Provide existing and proposed maps indicating vegetative community types based on the Florida Natural Areas Inventory Guide to the Natural Communities of Florida. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT
- 12. Impact Summary Tables (located at the end of this section):
 - a. For all projects, complete Table 1, 2 and 3 as applicable. SEE ATTACHED TABLES
 - b. For shoreline stabilization projects, provide the information requested in Table 4. NA
- 13. Adjacent property owners. The following information is required only for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit and/or authorization to use state owned submerged lands and is not necessary when applying solely for an Environmental Resource Permit. If the activity is located on state owned submerged lands and requires a lease or easement, provide a list of names and addresses from the latest county tax assessment roll of all property owners located within a 500 ft. radius of the proposed lease or easement boundary in mailing label format, or you may elect to send notice to those persons by certified mail, with the return-receipt card addressed to the DEP or water management district, as applicable, in accordance with subsection 18-21.005(3), F.A.C., and Section 253.115, F.S. For projects that need a federal dredge and fill permit, please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding applicant). Attach additional sheets if necessary.

| 1. | 2. |
|----|----|
| 3. | 4. |
| 5. | 6. |

PART 2: ENVIRONMENTAL CONSIDERATIONS

Note: for many questions, a state rule/Applicant's Handbook Volume I (AH I) section is cited to assist the applicant in addressing these questions. However, additional Federal criteria may apply.

- 1. Elimination or Reduction of Impacts (Avoidance and Minimization). Describe measures taken to eliminate or reduce impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.1*). **SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT**
- 2. Fish, Wildlife, Listed Species and their Habitats. Provide results of any wildlife assessments that have been conducted on the project site and provide any comments pertaining to the project from the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service (*Refer to AH I Section 10.2.2*). SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT

- 3. Water quantity impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.2.4 and AH II*).
 - a. Does the activity include a proposed stormwater water management system with a control elevation different than the wetland normal pool elevation(s) of existing or proposed created wetlands or other surface waters? **NO**
 - b. If yes to (a), provide documentation (e.g. drawdown assessment or other methods) that shows the proposed surface water management system will not change the hydroperiod of the existing or created wetland or other surface water.
- 4. Public Interest Test. Please describe how the proposed activity will not be contrary to the public interest, OR if such an activity significantly degrades or is located within an Outstanding Florida Water (OFW), that the regulated activity will be clearly in the public interest (Refer to AH I Section 10.2.3).
 - a. Please describe how the project will be designed to avoid adverse affects to public health, safety, or the welfare or the property of others. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT
 - Please describe how the project will be designed to avoid adverse affects to the conservation of fish and wildlife, including endangered or threatened species, or their habitats. ALL REQUIRED STATE & FEDERAL WILDLIFE PERMITS TO BE OBTAINED AS APPLICABLE
 - c. Please describe how the project will be designed to avoid adverse affects to navigation or the flow of water or cause harmful erosion or shoaling. **NA**
 - d. Please describe how the project will be designed to avoid adverse affects to the fishing or recreational values or marine productivity in the vicinity of the activity. **NA**
 - e. Will the project be of a temporary or permanent nature? **PERMANENT**
 - f. Please describe how the project will be designed to avoid adverse impacts to significant historical and archaeological resources, under the provisions of section 267.061, F.S. **NA**
 - g. Please describe how the project will be designed to avoid adverse affects to the current condition and relative value of functions being performed by areas affected by the proposed regulated activity. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT
- 5. Water Quality. Provide a description of how water quality will be maintained in wetlands and other surface waters that will be preserved or will remain undisturbed, both on and offsite. Please address both short-term (such as during construction) and long-term water quality considerations (*Refer to AH I Section 10.2.4*). **SEE SUBMITTED STORMWATER PLANS**
- 6. Class II Waters; Waters approved for shellfish harvesting (Refer to AH I Section 10.2.5).
 - a. Will the project occur in Class II that are NOT approved for shellfish harvesting? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of AH I Section 10.2.5(a). NO

- b. Is the project located adjacent to or in close proximity to Class II waters? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of AH I Section 10.2.5(b). **NO**
- c. Is the project located in Class II or Class III waters that are classified as "approved", "restricted", "conditionally approved", or "conditionally restricted"? If yes, demonstrate that the project meets the requirements of *AH I Section 10.2.5(c)*. **NO**
- 7. Vertical seawalls. Are vertical seawalls proposed in an estuary or lagoon as part of the project? If yes, please describe how the project meets the requirements of *AHI Section 10.2.6.* **NO**
- 8. Secondary Impacts (AH I Section 10.2.7).
 - a. Will an upland buffer, with a minimum width of 15' and an average width of 25', be provided between the proposed activities and existing wetlands or wetlands to be preserved, enhanced, restored, or created? Provide the location and dimension of all buffers on the plans. If not, demonstrate that secondary impacts will not occur or how they will be offset. **SEE ATTACHED**
 - b. If listed species are present or may be present then coordination with wildlife agencies is needed. Have you coordinated with the FFWCC and/or USFWS? If so, please provide correspondence from the wildlife agencies indicating concurrence with the species management plan(s). **NA**
 - c. What measures will be taken to avoid impacts to wetland-dependent wildlife and/or listed species that use uplands for nesting or denning? **NO WETLAND-DEPENDENT LISTED SPECIES**
 - d. Describe whether there are any other relevant activities that are very closely linked and causally related to any proposed dredging or filling in wetlands or other surface waters that have the potential to cause impacts to significant historical and archaeological resources. **NONE**
 - e. Are there additional future phases or extensions of the proposed activities that are not shown? If yes, please describe. **NA**
- 9. Cumulative Impacts. Is the proposed mitigation located within the same drainage basin (*Refer to AH I Figures 10.2.8.1 10.2.8.5*) as the proposed wetland impacts? **YES** If not, please submit a Cumulative Impact Evaluation in accordance with *AH I Section 10.2.8*.
- 10. Mitigation Plan (Refer to AH I Section 10.3).
 - a. If a mitigation bank is proposed to offset wetland/other surface water impacts, provide:
 - i. the name of the bank: **TBD**. A letter of reservation from the banker will be required once the application has been evaluated.
 - ii. If the mitigation bank was assessed using UMAM, provide UMAM worksheets for impact area(s). If the bank was assessed using a method other than UMAM, then prepare the impact assessment using the same method. SEE ATTACHED ENVIRONMENTAL ASSESSMENT/SITE CONSTRAINTS ANALYSIS REPORT
 - b. If mitigation is proposed to offset wetland/other surface water impacts, please provide a mitigation plan that includes, at a minimum, the following:

| i. | ☐ Proposed mitigation narrative: |
|------|--|
| | (1) ☐ Describe the current and proposed condition for each type of mitigation |
| | component (restoration, enhancement, creation, preservation), including: |
| | (a) Describe current and proposed vegetation |
| | (b) ☐ Describe current and proposed hydrologic conditions for the proposed |
| | mitigation. |
| | (c) ☐ Describe the soil types from NRCS maps and confirm if actual soil |
| | conditions appear to match. |
| | (2) Provide details of the proposed construction/mitigation activities including |
| | phasing and timing, as appropriate. |
| | (3) \square Identify measures that will be implemented during and after construction to |
| | avoid adverse impacts related to the proposed activities. |
| | (4) A mitigation implementation and monitoring schedule with dates. |
| | (5) Identify the success criteria. |
| | (6) ☐ Describe the anticipated site conditions in and around the mitigation area after |
| | the mitigation plan is successfully implemented. |
| | (7) Provide a comparison of current fish and wildlife habitat to expected habitat |
| | after the mitigation plan is successfully implemented. |
| ii. | ☐ Provide a Management Plan that includes, as appropriate, aspects of operation and |
| | maintenance, including water management practices, vegetation establishment, exotic |
| | and nuisance species control, fire management, and control of access. |
| iii. | ☐ Maps: |
| | (1) ☐ Soil map (include soil names/codes, hydrologic soil groups and hydric soil |
| | types). |
| | (2) Topographic map of the mitigation area and adjacent contributing and receiving |
| | areas. |
| | (3) Hydrologic features map of the mitigation area and adjacent contributing and |
| | receiving areas. |
| | (4) Uegetative communities map (using FLUCCS or other appropriate classification |
| | system). |
| | (5) ☐ For all maps, indentify source. |
| | |
| IV. | Provide the necessary supporting information for the application of sections 62-345.400 - |
| | .600 (Uniform Mitigation Assessment Method (UMAM)). To meet this requirement, |
| | submittal of UMAM worksheets is acceptable for impact and mitigation areas. SEE |
| | ATTACHED |
| ., | If analta and/or offaita applicant reananaible mitigation is proposed submit a draft |
| ٧. | If onsite and/or offsite applicant-responsible mitigation is proposed, submit a draft Conservation Easement document or other form of restrictive covenant that provides for |
| | protection of the mitigation area in perpetuity. Standard forms, as described in subsection |
| | 62-330.301(6), F.A.C., are available from the Agency or on its website. |
| | υν-υνυινο τιο μ. τ. Α.Ο., αις αναιιανίς ποιπτιής Αμεπογοί οπτίο Webbits. |

- vi. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a cost estimate for completing the mitigation, including monitoring and maintenance.
- vii. If onsite and/or offsite applicant-responsible mitigation is proposed and the proposed mitigation exceeds \$25,000, please provide a draft financial assurance document. **N/A**

| viii. | Identify the entity responsible for monitoring, maintenance and long-term stewardship of the mitigation area (i.e. the landowner or homeowner association, not the consultant or contractor that will do the work). N/A |
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PART 3: PLANS

PLANS: The information listed in the checklist below represent the typical information required on the submitted project plans. The Plans checklists in each application section are cumulative unless otherwise noted. Separate plans for each application section are not required.

- 1. Include the following on the construction plans and cross sections:
 - a. An Existing Conditions sheet showing the entire project and wetland/other surface water boundaries. Include the following: Acreage and type (herbaceous, forested or other surface water) of each wetland/other surface water.
 - b. A Proposed Conditions sheet showing the entire project and wetland/other surface water boundaries with construction plan overlay.
 - c. A Proposed Wetland Impact sheet that include the following:
 - i. Acreage and type (herbaceous, forested or other surface water) of each wetland/other surface water to be impacted.
 - ii. ☐ Proposed upland buffers with dimensions.
 - iii. \square Identify the seasonal high water and wetland normal pool elevations on the plans.
 - iv.

 Separately identify WMD/FDEP and USACE wetland/other surface water impacts if different.
 - d. \square Include wetland boundaries on all construction plan sheets.
- 2. If onsite and/or offsite applicant-responsible mitigation is proposed, submit mitigation permit plans and cross sections including, at a minimum:
 - a.

 | existing conditions plan sheet identifying upland and wetland communities and acreage of each, topography, drainage patterns, and location of cross-section detail.
 - b. proposed conditions plan sheet identifying proposed improvements by type (restoration, enhancement, creation, preservation), acreage of each, topography, drainage patterns, and location of cross-section detail.
 - c. \square monitoring plan sheet including proposed improvements, monitoring transects, photostations, and mitigation signage (if applicable).
 - d. \square cross-section and/or profile detail(s) sheet(s) including representative section of each type of mitigation component. Include existing and proposed conditions and representative elevations.
 - e.

 planting schedule, plant species including common and scientific names divided into three sections (canopy, shrub, herbaceous) by mitigation component, quantity, spacing, size, and elevation range.

TABLE 1 - PROJECT WETLAND (WL) AND OTHER SURFACE WATER (SW) AND IMPACT SUMMARY

SEE ATTACHED TABLES WITHIN EA-ERP SUBMITTAL PACKAGE

| WL & SW | UMAM ASSESSMENT | WL & SW TYPE | WL & SW SIZE | WL & SW NOT | TEMPO WL & SW | DRARY IMPACTS | | ANENT IMPACTS | MITIGATION ID |
|--------------------|--------------------|-----------------|-----------------|---------------------|---------------------------|------------------|---------------------------|------------------|------------------|
| ID | AREA NAME(S) | 1112 | (acres) | IMPACTED (acres) | IMPACT SIZE (acres) | IMPACT TYPE | IMPACT SIZE (acres) | IMPACT TYPE | שו |
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| PROJECT TOTALS: | | | | | | | | | |

Comments:

Codes (multiple entries per cell not allowed):

- Wetland & Surface Water ID: Include ID on submitted wetland and surface water impact maps
- Wetland Type: from an established wetland classification system

Form #62-330.060(1) - Joint Application for Environmental Resource Individual Permit/ Authorization to Use State-Owned Submerged Lands/ Federal Dredge and Fill Permit Incorporated by reference in subsection 62-330.060(1), F.A.C. (10-1-2013)

| rm #62-330.060(1) - Joint Application for Environmental Resourdate-Owned Submerged Lands/ Federal Dredge and Fill Permit | ce Individual Permit/ Authorization to Use | |
|--|--|--|

• Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other

TABLE 2 - PROJECT ON-SITE MITIGATION SUMMARY SEE ATTACHED TABLES WITHIN EA-ERP SUBMITTAL PACKAGE

| MITIGATION | UMAM ASSESSMENT | TARGET | CREATION | RESTORATION | ENHANCEMENT | WETLAND PRESERVE | UPLAND PRESERVE | OTHER |
|-------------------|--------------------|--------|-----------------|--------------|--------------|---------------------|--------------------|--------------|
| ID | AREA NAME(S) | TYPE | AREA (acres) | AREA (acres) | AREA (acres) | AREA (acres) | AREA (acres) | AREA (acres) |
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| PROJECT TOTALS | | | | | | | | |

COMMENTS:

Codes (multiple entries per cell not allowed):

• Target Type or Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

TABLE 3 - PROJECT OFF-SITE MITIGATION SUMMARY SEE ATTACHED TABLES WITHIN EA-ERP SUBMITTAL PACKAGE

| MITIGATION | UMAM ASSESSMENT | TARGET | CREATION | RESTORATION | ENHANCEMENT | WETLAND PRESERVE | UPLAND PRESERVE | OTHER |
|-------------------|--------------------|--------|-----------------|--------------|--------------|---------------------|--------------------|--------------|
| ID | AREA NAME(S) | TYPE | AREA (acres) | AREA (acres) | AREA (acres) | AREA (acres) | AREA (acres) | AREA (acres) |
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| PROJECT TOTALS | | | | | | | | |

COMMENTS:

Codes (multiple entries per cell not allowed):

• Target Type or Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

TABLE 4 - SHORELINE STABILIZATION

| Stabilization | Linear Ft. New | Linear Ft. Replaced | Linear Ft. Repaired | Linear Ft. Removed | Slope H: V: | Toe Width (Ft.) |
|---------------------------------------|-------------------|------------------------|------------------------|-----------------------|-------------------|--------------------|
| Natural Vegetation (living shoreline) | | | | | N/A | N/A |
| Rip Rap + Vegetation | | | | | | |
| Rip Rap | | | | | | |
| Seawall + Rip Rap | | | | | | |
| Vertical Seawall | | | | | | |
| Other Shoreline Stabilization Type | | | | | | |

| Type of Rip Rap | Size of Rip Rap | | | |
|-----------------|-----------------|--|--|--|
| | Type of Rip Rap | | | |

| Project: Fontana | | | | | Date: | 06/23/21 | | | | | | | |
|------------------|---------|---------------|----------------|--------------|-------|----------|-----------------|-------|---------------|--------------------------|-------------|---------------------|--------------------|
| | Habitat | Loca Lands | ation scape | Wa Enviro | | | nunity cture | | UMAM Delta | Functional Units Lost | | Wetland Preserve | Upland Preserve |
| | Type | before | after | before | after | before | after | Acres | | | Acres (D/S) | Provided | Provided |
| | | | | | | | | | | | 42.599 | 0 | 0 |
| | | | | | | | | | | | | | |
| W-2 | 640 | 7 | 0 | 3 | 0 | 3 | 0 | 0.86 | 0.43 | 0.373 | | | |
| W-3 | 641 | 7 | 0 | 6 | 0 | 6 | 0 | 11.43 | 0.63 | 7.239 | | | |
| W-4 | 630 | 7 | 0 | 3 | 0 | 3 | 0 | 1.75 | 0.43 | 0.758 | Total | | Total |
| W-5 | 641 | 7 | 0 | 5 | 0 | 5 | 0 | 1.10 | 0.57 | 0.623 | Functional | | Functional |
| W-6 | 641 | 7 | 0 | 5 | 0 | 5 | 0 | 1.66 | 0.57 | 0.941 | Units | | Units |
| W-7 | 640 | 7 | 0 | 3 | 0 | 4 | 0 | 0.89 | 0.47 | 0.415 | Lost | | Gained |
| W-8 | 641 | 7 | 0 | 3 | 0 | 4 | 0 | 1.45 | 0.47 | 0.677 | 24.33 | | 0.00 |
| W-9 | 640 | 7 | 0 | 3 | 0 | 4 | 0 | 0.68 | 0.47 | 0.317 | | | |
| W-10 | 641 | 7 | 0 | 4 | 0 | 4 | 0 | 0.84 | 0.50 | 0.420 | | | |
| W-11 | 641 | 7 | 0 | 7 | 0 | 7 | 0 | 0.08 | 0.70 | 0.056 | | | |
| W-12 | 640 | 7 | 0 | 5 | 0 | 5 | 0 | 2.38 | 0.57 | 1.349 | | | |
| W-13 | 641 | 7 | 0 | 7 | 0 | 7 | 0 | 4.83 | 0.70 | 3.381 | | | |
| W-14 | 641 | 7 | 0 | 5 | 0 | 6 | 0 | 12.69 | 0.60 | 7.614 | | | |
| W-16 | 521 | 7 | 0 | 7 | 0 | 6 | 0 | 0.059 | 0.67 | 0.040 | | | |
| W-4 (sec) | 630 | 7 | 6 | 3 | 3 | 3 | 2 | 0.44 | 0.07 | 0.029 | | | |
| W-11 (sec | 641 | 7 | 6 | 7 | 7 | 7 | 6 | 0.15 | 0.07 | 0.010 | | | |
| W-14 (sec | 641 | 7 | 6 | 5 | 5 | 6 | 5 | 0.95 | 0.07 | 0.064 | | | |
| W-16 (sec | 521 | 7 | 6 | 7 | 7 | 6 | 5 | 0.36 | 0.07 | 0.025 | | | |
| | | | | | | | | | | 24.33 | | | |

| Mitigation: | Habitat | | | | | | | Time Lag | Risk Factor | Preservation Adjustment | Functional | Acres Provided | Functional Units |
|--------------|---------|--------|-------|--------|-------|--------|-------|-------------|----------------|----------------------------|------------|-------------------|------------------|
| Wetland | Type | w/o CE | w/ CE | w/o CE | w/ CE | w/o CE | w/CE | Lug | 1 dotor | Factor | Gain | Tioridod | Gained |
| Preservation | | | | | | | | | | | | | |
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| | | | | | | | l | | | | | | 0.000 |
| Enhancement | | before | after | before | after | before | after | | | | | | |
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| | | | | | | | | | | | | | 0.00 |
| Uplands | | w/o CE | w/ CE | w/o CE | w/ CE | w/o CE | w/ CE | | | | | | |

| | | | | | | | 0.000 |
|--|--|--|--|--|--|--|-------|

| | | (See Section 62 | -345.400, F | .A.C.) | | | | |
|--|--------------------------------|--|---|---|--|--|--|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | | | |
| Fontana | | 180510-56 | 59 | | W-2 | | | |
| FLUCCs Code | | assification (optional) | Impact or Mitigation Site | | Assessment Area Size (acres) | | | |
| 640 | Vegeta | ted Non-Forested Wetlands | | Impact | 0.86 | | | |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | | lassification (i.e. Ol on of importance) | FW, AP, other local/state/federal | | | |
| Lake Tohopekaliga | | N/A | | | N/A | | | |
| Geographic relationship to and Small isolated non-forested we by improved pasture. The Flori | etland syste | em. This system is loc | ated in the | southern portion o | plands f the property and is surrounded | | | |
| Assessment area (AA) descript A small mostly undisturbed non-fores Observed vegetation includes smartv | sted wetland | | | th scattered nuisance a | and exotic species throughout. | | | |
| Significant nearby features | | | | ss (considering the andscape) | relative rarity in relation to the | | | |
| A portion of Firar's Cove is locate cove is a part of the large Lake T | | | Wetland | ecosystem is cor | mmon. | | | |
| Functions Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | uatic & wetland dependent | Mitigation for previous permit/other historic use None | | | | | |
| Anticipated Wildlife Utilization (List of species that are repres and reasonably expected to be | Based on lentative of | Literature Review | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of us and intensity of use of the assessment area) | | | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles nern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | | | |
| Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings nests, etc.): | | | | | | | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Crar | | | | | | | | |
| Additional relevant factors: | | | | | | | | |
| Cattle grazing and drainage im | provemen | red hydrolo | ogy and vegetative | components of wetland system. | | | | |
| Assessment conducted by: | | | | ent date(s): | | | | |
| Morgan Clark | | | 9/21/201 | 7 | | | | |

| Site/Project Name | | Applicatio | n Number | Assessment Area Nam | e or Number | |
|--|-------|--------------|---|---|---|--|
| Fontana | | 180510-569 | | W-2 | | |
| Impact or Mitigation | | Assessme | ent conducted by: | Assessment date: | | |
| Impact | | Morgan Clark | | 9/6/2017 | | |
| Scoring Guidance | Oj | ptimal (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 | optio | * * * | | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| w/o pres or current with 7 0 | is lo | | eximatley 0.2 miles east | | , and west. The Florida Turnpik | |
| .500 (6)(b) Water Environment (n/a for uplands) w/o pres or current wit | regi | | | intain community. Evident to on or off-site wetla | ence of altered hydrologic nds or lakes. | |
| 3 0 | | | | | | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current wit 3 0 | byno | | storic species appropriat pecies. Scattered N/E sp | | n, however currently dominated | |
| | _ | - | | | | |
| Score = sum of above scores/30 | | | on as mitigation, | 1 | For impact assessment areas | |
| (if uplands, divide by 20) | | Preservation | n adjustment factor = | | FL = delta x acres = 0.373 | |
| w/o pres or current wit | h | Adjusted m | itigation delta = | | 0.5,5 | |
| 0.433333333 0.0 | 0 | | | | | |
| | | | If mitigation | | For mitigation assessment areas | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

-0.4333

| | | (See Section 62- | -345.400, F | A.C.) | | | |
|--|-----------------------------------|--|---|-----------------------|------------------------------------|--|--|
| Site/Project Name | | Application Number | | Assessment Area N | lame or Number | | |
| Fontana | | 180510-56 | 9 | | W-3 | | |
| FLUCCs Code | Further classification (optional) | | Impact or Mitigation Site | | Assessment Area Size (acres) | | |
| 641 | Fres | shwater Marsh | | Impact 11 | | | |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | | |
| Lake Tohopekaliga | | N/A | N/A | | | | |
| Geographic relationship to and | hydrologi | c connection with wet | lands, othe | r surface waters, up | olands | | |
| Freshwater marsh wetland syst Turnpike. A ditch connects to th west. | | | | | | | |
| Assessment area (AA) descripti | ion | | | | | | |
| A small mostly undisturbed freshwater marsh wetland system dominated by native species. It consists mostly of typical marsh vegetation but also has a wet prairie component around its periphery. The forested component of this system consists of loblolly bay, swamp bay, and camphor tree, with scattered blackgum throughout. Groundcover species include scattered beautyberry, tropical soda apple, Virginia chain fern, and Brazilian pepper. The herbaceous component of this system consists little blue maidencane, spikerush, alligatorweed, pickerel weed, common sedges, carpetgrass, horned beakrush, smartweed, maidencane, rattlebox, and beakrush, with scattered salt bush and primrose willow throughout. The perimeter of this area consists of scattered blackgum. | | | | | | | |
| Significant nearby features | | | Uniquenes regional la | | relative rarity in relation to the | | |
| A portion of Firar's Cove is located cove is a part of the large Lake To | | Wetland ecosystem is common. | | | | | |
| Functions | | | Mitigation | for previous permit | other historic use | | |
| Functions provided include suitable w protection, etc.) for some species, par species; provides some water quality | rticularly aqu | atic & wetland dependent | None | | | | |
| Anticipated Wildlife Utilization I (List of species that are represe and reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles ern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | | |
| Observed Evidence of Wildlife ((List species directly observed, | | signs such as tracks, d | roppings, | casings nests, etc.): | | | |
| brown anole, black racer, green anole, leopard frog,cricket frog, oak toad, armadillo, raccoon, Red-tailed Hawk, Mourning Dove, Mockingbird, Quail, Sandhill Crane, Carolina Wren, Wood stork, white eye vireo grey squirrel, deer, oldfield rat, etc. | | | | | | | |
| Additional relevant factors: | | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrolo | gy and vegetative o | components of wetland system. | | |
| Assessment conducted by: | | | Assessme | nt date(s): | | | |
| Morgan Clark | | | 9/6/2017 | | | | |

| Site/Project Name | | | Applicatio | n Number | Assessment Area Nam | o or Number | |
|---|--------|---------------------|---|---|---|---|--|
| | | | | | Assessment Area Nam | | |
| Fontana | | | 180510-569 | | W-3 | | |
| Impact or Mitigation | | | Assessme | ent conducted by: | Assessment date: | | |
| Impact | | | N | Aorgan Clark | | 9/6/2017 | |
| Scoring Guidance | | Op | timal (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 | | optim s wetla | ndition is nal and fully upports and/surface or functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| .500 (6)(a) Location and Landscape w/o pres or current | with 0 | | | | north, south, and west. ditch connects to the SV | The Florida Turnpike runs // portion of the system. | |
| .500 (6)(b) Water Environmen (n/a for uplands) | | AA's | hydrology | sufficient to maintain c | community. Strong evid | ence of hydrologic regime. | |
| w/o pres or current | with 0 | ı | | | | | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community | | | | storic species appropriated N/E species were obs | | n, and is dominated by native | |
| | | | | | | 1 | |
| Score = sum of above scores/3 (if uplands, divide by 20) | 30 | | | on as mitigation, | | For impact assessment areas | |
| (ii upianus, divide by 20) | | | Preservation adjustment factor = | | | $FL = delta \times acres = 7.239$ | |
| w/o pres or current | with | | Adjusted m | itigation delta = | | ,, | |
| 0.633333333 | 0.00 | | | | | | |
| | | | | If mitigation | | For mitigation assessment areas | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

-0.6333

| | | (See Section 62 | -345.400, F | A.C.) | | |
|---|--|--|---|--|---|--|
| Site/Project Name | | Application Number | | Assessment Area Na | me or Number | |
| Fontana | | 180510-56 | 59 | | W-4 | |
| FLUCCs Code | Further classification (optional) | | Impact or Mitigation Site | | Assessment Area Size (acres) | |
| 630 | Mixed Forested Wetland | | | Impact | 1.75 | |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | |
| Lake Tohopekaliga | | N/A | N/A | | | |
| Geographic relationship to and | hydrologi | c connection with wet | etlands, other surface waters, uplands | | | |
| Mixed forested wetland system pasture to the south and east. west. | | | | | tem is surrounded by improved tends off-site to the north and | |
| Assessment area (AA) descript An undisturbed mixed forested wetlar extends north and west of the propert that transitions into an obligate and fa consists of dogfennel, blackberry, cae agricultural operation | nd system do y boundary. iculative-wet | The most landward comp dominated canopy. The companies the companies the companies that t | onent of this anopy of this | system is a shrubby mixtu system consists of scatte | ure of mesic and faculative-wet flora ered cypress, and its groundcover | |
| Significant nearby features | | | | ss (considering the re andscape) | elative rarity in relation to the | |
| A portion of Firar's Cove is locate cove is a part of the large Lake To | | | Wetland ecosystem is common. | | | |
| Functions Functions provided include suitable w protection, etc.) for some species, pa | rticularly aqu | atic & wetland dependent | Mitigation for previous permit/other historic use None | | | |
| species; provides some water quality Anticipated Wildlife Utilization (List of species that are represe and reasonably expected to be | Based on I entative of | Literature Review | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles ern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | |
| Observed Evidence of Wildlife (List species directly observed | | igns such as tracks, c | Iroppings, | casings nests, etc.): | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Cran | | | | | | |
| Additional relevant factors: | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | tered hydrology and vegetative components of wetland system. | | | |
| Assessment conducted by: | | | Assessme | ent date(s): | | |
| Morgan Clark | | | 9/6/2017 | | | |

| [a:: /a : | | Ta 11 (1) | | | | |
|--|-------|--|---|---|------------------------|-----------|
| Site/Project Name | | | on Number | Assessment Area Na | | |
| Fontana | | 180510-569 | | W-4 | | |
| Impact or Mitigation | | Assessme | ent conducted by: | Assessment date: | | |
| Impact | | Morgan Clark | | | 9/6/2017 | |
| Scoring Guidance | Oj | otimal (10) | Moderate (7) | Minimal (4) | Not Present (0) | 1 |
| The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed | optii | ondition is mal and fully supports land/surface er functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of suppor of wetland/surface wate functions | to provide | |
| .500 (6)(a) Location and Landscape Suppo w/o pres or current with 7 0 | bour | ndary. AA i | us with off-site forested s surrounded by improv 0.1 miles east of the AA | ed pasture to the south | | |
| .500 (6)(b) Water Environment (n/a for uplands) w/o pres or current with 3 | | | barely sufficient to mai | | | ogic |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 3 0 | | | storic species appropriat sitional and opportunist | | em, however due to agr | icultural |
| | | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | | | ion as mitigation, | | For impact assessm | ent areas |
| | | - | n adjustment factor = | | FL = delta x acres = | 0.758 |
| w/o pres or current with | 4 | Adjusted m | itigation delta = | | | |
| 0.433333333 0.00 | | | If mitigation | | For mitigation assess | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

-0.4333

| | | (See Section 62 | -345.400, F | .A.C.) | | | |
|--|--|--|---|---|--|--|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | | |
| Fontana | | 180510-56 | 59 | | W-5 | | |
| FLUCCs Code | Further cla | assification (optional) | Impact or | Mitigation Site | Assessment Area Size (acres) | | |
| 641 | Fres | shwater Marsh | | Impact 1.10 | | | |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | | |
| Lake Tohopekaliga | | N/A | N/A | | | | |
| Geographic relationship to and | hydrologi | c connection with wet | lands, othe | er surface waters, u | plands | | |
| Freshwater marsh wetland sys extensive ditch system. This sy | | | | | | | |
| W-8) to the northwest and southwest | vetland syste t . Its hydrolo into a wet p | gic regime has been adve rairie component around it | rsely impacte s periphery. | ed by drainage ditches. The perimeter of this sy | connected to on-site wetlands (W-6 and Typical marsh vegitation dominates the stem consists of scattered cypress and denrod, and maidencane, with | | |
| Significant nearby features | | | | ss (considering the andscape) | relative rarity in relation to the | | |
| A portion of Firar's Cove is locate cove is a part of the large Lake To | | | Wetland ecosystem is common. | | | | |
| Functions | | | Mitigation | for previous permi | t/other historic use | | |
| Functions provided include suitable w protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | atic & wetland dependent | None | | | | |
| Anticipated Wildlife Utilization (List of species that are represe and reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles ern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | | |
| Observed Evidence of Wildlife (List species directly observed) | | igns such as tracks, o | droppings, | casings nests, etc.) | : | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Cran | | | | | | | |
| Additional relevant factors: | | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | ered hydrology and vegetative components of wetland system. | | | | |
| Assessment conducted by: | | | Assessme | ent date(s): | | | |
| Morgan Clark | | | 9/6/2017 | | | | |

| Site/Project Name | | Арі | plicatio | n Number | Assessment Area Nam | e or Number | | |
|---|--------|---|--------------|---|--|---|------------|--|
| Fontana | | | | 180510-569 | W-5 | | | |
| Impact or Mitigation | | Ass | sessme | nt conducted by: | Assessment date: | | | |
| Impact | | | Morgan Clark | | 9/6/2017 | | | |
| | ı | | | | | | | |
| Scoring Guidance | | Optima | al (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 water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | | |
| w/o pres or current 7 .500 (6)(b) Water Environn | with 0 | (W-6 and | | | | | | |
| .500 (6)(b) Water Environn (n/a for uplands) | nent | | | | community. Its hydrolog | | | |
| w/o pres or current | with | ~ | - | | c connection to on-site wetlands (W-6 and W-8) via a ake Toho via extensive ditch system | | | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community AA co | | | | toric species appropriated N/E species were obs | e for this type of systen served. | n, and is dominated by | y native | |
| | | | | | | | | |
| Score = sum of above score | | | | on as mitigation, | | For impact assessm | ent areas | |
| (if uplands, divide by 20 |)) | | | adjustment factor = | | FL = delta x acres = | 0.623 | |
| w/o pres or current | with | Adj | justed mi | tigation delta = | | | | |
| 0.5666666667 | 0.00 | | | | | | | |
| | - | . L | | If mitigation | | For mitigation assess | ment areas | |
| Delta = [with current] | | Tim | ne lag (t- | factor) = | | RFG = | | |

Risk factor =

-0.5667

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

| | | (See Section 62 | -345.400, F | .A.C.) | | | |
|--|-----------------------------------|--|---|-------------------------------------|---|--|--|
| Site/Project Name | | Application Number | | Assessment Area Na | me or Number | | |
| Fontana | | 180510-56 | 59 | | W-6 | | |
| FLUCCs Code | Further classification (optional) | | Impact or Mitigation Site | | Assessment Area Size (acres) | | |
| 641 | Fres | shwater Marsh | | Impact | 1.66 | | |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | | |
| Lake Tohopekaliga | | N/A | | N/A | | | |
| Geographic relationship to and | hydrologi | c connection with we | lands, oth | er surface waters, upl | ands | | |
| Freshwater marsh wetland sys extensive ditch system. This sy along the systems easternmos | vstem is su | | | | | | |
| Assessment area (AA) descript | ion | | | | | | |
| | jime has bee ponent arou | n adversely impacted by ond its periphery. Observe | drainge ditch | Typical marsh vegitation | nnected to on-site wetlands (W-5 and dominates the interior of this system smartweed, maidencane, and | | |
| Significant nearby features | | | | ss (considering the re andscape) | elative rarity in relation to the | | |
| A portion of Firar's Cove is locate cove is a part of the large Lake To | | | Wetland | ecosystem is comm | non. | | |
| Functions | | | Mitigation | for previous permit/o | other historic use | | |
| Functions provided include suitable w protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | atic & wetland dependent | None | | | | |
| Anticipated Wildlife Utilization (List of species that are represe and reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles ern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | | |
| Observed Evidence of Wildlife (List species directly observed) | | igns such as tracks, o | droppings, | casings nests, etc.): | | | |
| | | | | | | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Cran | | · | | | | | |
| Additional relevant factors: | | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrol | ogy and vegetative co | emponents of wetland system. | | |
| Assessment conducted by: | | | Assessm | ent date(s): | | | |
| Morgan Clark | | | 9/6/2017 | | | | |

| Site/Project Name | | A | Application Number | | Assessment Area Nam | e or Number | | |
|---|--------------|---|--------------------|---|---|---|-------------|--|
| Fontana | | | 180510-569 | | W-6 | | | |
| Impact or Mitigation | | - | Assessme | nt conducted by: | Assessment date: | | | |
| Impact | | | Morgan Clark | | 9/6/2017 | | | |
| | _ | | | | | | • | |
| Scoring Guidance | | Optii | mal (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 water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | | |
| .500 (6)(a) Location and Landscap w/o pres or current | | north, | south, an | ear the center of the produced west. A ditch is locate site wetlands (W-5 and | ed along its eastern bour | • • • | | |
| .500 (6)(b) Water Environm (n/a for uplands) w/o pres or current | | impact | ted by dit | sufficient to maintain c ches. Direct hydrologic ically connected to Lak | connection to on-site w | etlands (W-5 and W-8 | | |
| .500 (6)(c) Community struc 1. Vegetation and/or 2. Benthic Community w/o pres or current | | | | storic species appropriat s observed. | e for this type of systen | n, is dominated by nat | ive species | |
| | | | | | | T- | | |
| Score = sum of above scores | | I | f preservati | on as mitigation, | | For impact assessm | ent areas | |
| (if uplands, divide by 20 w/o pres or current | | - | | adjustment factor = | | FL = delta x acres = | 0.941 | |
| 0.566666667 | with 0.00 | L | | | | | | |
| | | Γ | | If mitigation | | For mitigation assess: | ment areas | |
| Delta = [with current] | Ī | Т | Γime lag (t- | | | RFG = | | |

Risk factor =

-0.5667

delta/(t-factor x risk) =

| | | (See Section 62- | -345.400, F | .A.C.) | | | |
|---|--------------------------------|--|---|-------------------------------|------------------------------------|--|--|
| Site/Project Name | | Application Number | | Assessment Area I | Name or Number | | |
| Fontana | | 180510-56 | 59 | | W-7 | | |
| FLUCCs Code | | assification (optional) | Impact or l | Mitigation Site | Assessment Area Size (acres) | | |
| 640 | Vegetated Non-Forested Wetland | | | Impact | 0.89 | | |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | | |
| Lake Tohopekaliga | | N/A | N/A | | | | |
| Geographic relationship to and hydrologic connection with wetlands, other surface waters, uplands | | | | | | | |
| Small vegetated non-forested wetland system located southwest of W-5. A ditch connects to the northern boundary of this system and it is surrounded by improved pasture. The ditch system itslef outfalls directly into the property's surounding cana system, eventually discharging to Lake Toho. | | | | | | | |
| Assessment area (AA) descript | ion | | | | | | |
| A small mostly disturbed vegetated non-forested wetland system dominated by native species. Its hydrologic regime has been adversely impacted by ditch system. Observed vegetation includes carpetgrass, watergrass, common sedges, and smartweed. | | | | | | | |
| Significant nearby features | | | | ss (considering the andscape) | relative rarity in relation to the | | |
| A portion of Firar's Cove is locate cove is a part of the large Lake T | | | Wetland ecosystem is common. | | | | |
| Functions | | A (6 | Mitigation | for previous permi | t/other historic use | | |
| Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | uatic & wetland dependent | None | | | | |
| Anticipated Wildlife Utilization (List of species that are represand reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles nern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | | |
| Observed Evidence of Wildlife (List species directly observed | | signs such as tracks, d | lroppings, | casings nests, etc.) | : | | |
| brown anole, black racer, green anole, leopard frog,cricket frog, oak toad, armadillo, raccoon, Red-tailed Hawk, Mourning Dove, Mockingbird, Quail, Sandhill Crane, Carolina Wren, Wood stork, white eye vireo grey squirrel, deer, oldfield rat, etc. | | | | | | | |
| Additional relevant factors: | | | | | | | |
| | provemen | ts have adversely alte | red hydrold | ogy and vegetative | components of wetland system. | | |
| Assessment conducted by: | | | | ent date(s): | | | |
| Morgan Clark | | | 9/6/2017 | | | | |

| ite/Project Name | | | Applica | tion Number | Assessment Area Nam | e or Number | |
|---|-------------------|---------------------|----------------------------|---|---|---|--|
| For | ntana | | | 180510-569 | W-7 Assessment date: | | |
| npact or Mitigation | | | Assessi | nent conducted by: | | | |
| Impact | | | | Morgan Clark | | 9/6/2017 | |
| Scoring Guidance | e | | Optimal (10) | Moderate (7) | Minimal (4) | Not Present (0) | |
| The scoring of each indi assed on what would be or the type of wetland or water assessed | cator is suitable | tor is itable Co | | Condition is less than optimal, but sufficient to maintain most e wetland/surface water | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| w/o pres or current with 7 0 500 (6)(b) Water Environment | | along the nor | thern boundary of this sys | tem. | d pasture. A ditch is locate | | |
| (n/a for up | olands) | with 0 | | pacted by ditches which di | | ogically connected to Lake | |
| .500 (6)(c) Comm | - | ture | A A | | | | |
| 1. Vegetatio 2. Benthic Co | ommunity | with | | historic species appropria s with N/E species observe | | n, however dominated bynd | |
| 2. Benthic Co | | 0 | native species | | | n, however dominated bynd | |
| 2. Benthic Co w/o pres or current 4 | oove scores | 0 s/30 | native species | s with N/E species observe | | For impact assessment ar | |
| 2. Benthic Co w/o pres or current 4 Score = sum of ab (if uplands, div | oove scores | 0 s/30 | If preservat | s with N/E species observe | | | |
| 2. Benthic Co w/o pres or current 4 Score = sum of ab (if uplands, div | oove scores | 0 s/30 | If preservat | ation as mitigation, | | For impact assessment ar | |
| 2. Benthic Co | oove scores | 0 s/30) with | If preservat | ation as mitigation, | | For impact assessment ar | |

Risk factor =

-0.4667

delta/(t-factor x risk) =

| | | (See Section 62 | 2-345.400, F | .A.C.) | | | |
|--|-----------------------------------|--|---|--|---|--|--|
| Site/Project Name | | Application Number | | Assessment Area | a Name or Number | | |
| Fontana | | 180510-56 | 59 | W-8 | | | |
| FLUCCs Code | Further classification (optional) | | Impact or | Mitigation Site | Assessment Area Size (acres) | | |
| 641 | Freshwater Marsh | | | Impact | 1.45 | | |
| Basin/Watershed | Affected \ | Waterbody (class) | - | Special Classification (i.e. OFW, AP, other local/state/federal | | | |
| Name/Number | | | designation of importance) | | | | |
| Lake Tohopekaliga | | N/A | | | N/A | | |
| Geographic relationship to an | d hydrolog | ic connection with we | tlands, oth | er surface waters, | uplands | | |
| Freshwater marsh wetland sydditch system. | stem locate | ed south of W-5. This | system is h | ydrologically conr | nected to Lake Toho via extensive | | |
| Assessment area (AA) descrip | tion | | | | | | |
| 6, and W-9) to the northwest, south | west, and soon. Observed | utheast . Its hydrologic reg | jime has beei | adversely impacted | y connected to on-site wetlands (W-5, W by ditch systems. This system is ss, and beakrush, with scattered Chinese | | |
| Significant nearby features | | | | ss (considering th andscape) | ne relative rarity in relation to the | | |
| A portion of Firar's Cove is locate cove is a part of the large Lake | | | Wetland | ecosystem is co | ommon. | | |
| Functions Functions provided include suitable protection, etc.) for some species, p species; provides some water qualit | articularly aqı | uatic & wetland dependent | Mitigation for previous permit/other historic use None | | | | |
| Anticipated Wildlife Utilization (List of species that are represand reasonably expected to be | Based on sentative of | Literature Review | (List spec | ed Utilization by Li ies, their legal cla sity of use of the a | ssification (E,T, SSC), type of use | | |
| Based on location, anticipated wildli mammals (opossum, squirrels, deer moccasin, brown/green anoles, sout avian species (wading birds, raptor, | , etc); reptiles hern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading bi (SSC) | rds (E,T,SSC), rapt | tors (T,SSC), reptiles (T), mammals | | |
| Observed Evidence of Wildlife (List species directly observed | | | droppings, | casings nests, etc | c.): | | |
| brown anole, black racer, green Mockingbird, Quail, Sandhill Cra | | - | | | | | |
| Additional relevant factors: | | | | | | | |
| Cattle grazing and drainage ir | nprovemer | ts have adversely alte | ered hydrolo | ogy and vegetative | e components of wetland system. | | |
| Assessment conducted by: | | | Assessme | ent date(s): | | | |
| Morgan Clark | | | 9/6/2017 | | | | |

| Site/Project Name | | | Applicat | ion Number | Assessment Area Nam | e or Number | | |
|--|--|--|---|--|---|--|--|--|
| Fontana | | | 180510-569 | W-8 | | | | |
| mpact or Mitigation Impact | | | Assessr | nent conducted by: | Assessment date: | | | |
| | | | | Morgan Clark | 9/6/2017 | | | |
| Scoring Guidance Op | | 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 .500 (6)(a) Location and Landscape Support w/o pres or current 7 .500 (6)(b) Water Environment A A I | | Condition is optimal and full supports wetland/surface water functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | | | |
| | | W-6, and W-9 | 9). | | | | | |
| ` ' ' ' | | | | | | gic regime has been adversel | | |
| (n/a for | ter Environn uplands) | | impacted by d | | connection to on-site w | retlands (W-5, W-6, and W-9 | | |
| (n/a for w/o pres or current 3 .500 (6)(c) Com 1. Vegetat 2. Benthic | uplands) | with 0 | impacted by ditch system. AA contains l | litches. Direct hydrologic Also hydrologically conr | connection to on-site we nected to Lake Toho via | retlands (W-5, W-6, and W-9 | | |
| (n/a for w/o pres or current 3 .500 (6)(c) Com 1. Vegetat 2. Benthic w/o pres or current | uplands) munity stru- tion and/or Community | with 0 ceture with 0 | impacted by ditch system. AA contains I native species | litches. Direct hydrologic Also hydrologically conr | connection to on-site we nected to Lake Toho via | etlands (W-5, W-6, and W-9 extensive ditch system. | | |
| (n/a for w/o pres or current 3 .500 (6)(c) Com 1. Vegetat 2. Benthic w/o pres or current 4 | munity struction and/or Community above score | with 0 cture with 0 | impacted by ditch system. AA contains I native species | hitches. Direct hydrologic Also hydrologically conr historic species appropriate with N/E species observe | connection to on-site we nected to Lake Toho via | etlands (W-5, W-6, and W-9 extensive ditch system. n, however dominated bynon For impact assessment area | | |
| (n/a for w/o pres or current 3 .500 (6)(c) Com 1. Vegetat 2. Benthic w/o pres or current 4 Score = sum of (if uplands, or | munity struction and/or Community above score | with 0 cture with 0 | impacted by ditch system. AA contains I native species If preserver. | hitches. Direct hydrologic Also hydrologically conrulation is with N/E species observe ation as mitigation, | connection to on-site we nected to Lake Toho via | etlands (W-5, W-6, and W-9 extensive ditch system. | | |
| (n/a for w/o pres or current 3 .500 (6)(c) Com 1. Vegetat 2. Benthic w/o pres or current 4 Score = sum of (if uplands, of | munity struction and/or Community above score | with 0 cture with 0 | impacted by ditch system. AA contains I native species If preserver. | hitches. Direct hydrologic Also hydrologically conrustionic species appropriate with N/E species observed ation as mitigation, ion adjustment factor = | connection to on-site we nected to Lake Toho via | etlands (W-5, W-6, and W-9 extensive ditch system. n, however dominated bynon For impact assessment area | | |
| (n/a for w/o pres or current 3 .500 (6)(c) Com 1. Vegetat 2. Benthic w/o pres or current 4 Score = sum of (if uplands, of w/o pres or current | munity struction and/or Community above score | with 0 cture with 0 s/30 y) with | impacted by ditch system. AA contains I native species If preserver. | hitches. Direct hydrologic Also hydrologically conrustionic species appropriate with N/E species observed ation as mitigation, ion adjustment factor = | connection to on-site we nected to Lake Toho via | etlands (W-5, W-6, and W-9 extensive ditch system. n, however dominated bynon For impact assessment area | | |

Risk factor =

-0.4667

delta/(t-factor x risk) =

| | | (See Section 62 | -345.400, F | .A.C.) | | |
|--|--------------------------------|--|--|-------------------------------|--------------------------------------|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | |
| Fontana | | 180510-56 | 59 | | W-9 | |
| FLUCCs Code | | assification (optional) | Impact or 1 | <u>Hitigation Site</u> | Assessment Area Size (acres) | |
| 640 | Vegeta | ted Non-Forested Wetlands | Impact | | 0.68 | |
| Basin/Watershed Name/Number | Affected Waterbody (class) | | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | |
| Lake Tohopekaliga N/A | | | | | N/A | |
| Geographic relationship to and | l hydrologi | ic connection with wet | lands, othe | er surface waters, u | ıplands | |
| Small vegetated non-forested connected to Lake Toho via ex | | | e southern | property boundary | . This system is hydrologically | |
| Assessment area (AA) descript | ion | | | | | |
| A small mostly disturbed vegetated n wetland (W-8) to the west-northwest sedges, flatsedge, smartweed, carpe | . Its hydrolog | gic regime has been adver | sely impacted | d by ditch system. Obs | | |
| Significant nearby features | | | | ss (considering the andscape) | e relative rarity in relation to the | |
| A portion of Firar's Cove is locate cove is a part of the large Lake T | | | Wetland ecosystem is common. | | | |
| Functions | | A (6 | Mitigation for previous permit/other historic use | | | |
| Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | ırticularly aqı | uatic & wetland dependent | None None | | | |
| Anticipated Wildlife Utilization (List of species that are repres and reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use and intensity of use of the assessment area) | | | |
| Based on location, anticipated wildlift mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles nern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | |
| Observed Evidence of Wildlife (List species directly observed | | signs such as tracks, d | Iroppings, | casings nests, etc. |): | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Crar | | | | | | |
| Additional relevant factors: | | | | | | |
| Cattle grazing and drainage im | ıprovemen | ts have adversely alte | red hydrolo | ogy and vegetative | components of wetland system. | |
| Assessment conducted by: | | | | ent date(s): | | |
| Morgan Clark | | | 9/6/2017 | | | |

| Site/Project Name | | | Application | on Number | Assessment Area Nam | e or Number | | |
|--|-------------------------|---|---|--|---|--|--|--|
| Fontana | | | 180510-569 | W-9 | | | | |
| mpact or Mitigation Impact | | | Assessm | ent conducted by: | Assessment date: | | | |
| | | | ľ | Morgan Clark | 9/6/2017 | | | |
| Scoring Guidance Op | | Optimal (10) Moderate (7) | | Minimal (4) | Not Present (0) | | | |
| The scoring of each indicator is based on what would be suitable or 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 water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | | | |
| // y/o pres or current 7 .500 (6)(b) Watt (n/a for t | | with 0 | an on-site wetla | and (W-8). | · | a is hyrdologically connected to the con | | |
| w/o pres or current 3 | ipianus) | with 0 | | tch systems. Direct hydroconnected to Lake Toho | _ | | | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with | | | | | | | | |
| 1. Vegetati 2. Benthic C | ion and/or | | | storic species appropriat with N/E species observe | | n, however dominated byno | | |
| 1. Vegetati 2. Benthic C | ion and/or Community | with 0 | native species | | | n, however dominated byno For impact assessment are | | |
| 1. Vegetati 2. Benthic Commonword or current 4 | ion and/or Community | with 0 | native species v | with N/E species observe | | For impact assessment are | | |
| 1. Vegetati 2. Benthic Convolution of the second se | ion and/or Community | with 0 | If preservatio | with N/E species observed | | | | |
| 1. Vegetati 2. Benthic Convolution of the second se | ion and/or Community | with 0 s/30 | If preservatio | with N/E species observed ion as mitigation, n adjustment factor = | | For impact assessment are | | |
| 1. Vegetati 2. Benthic Com/o pres or current 4 Score = sum of a (if uplands, dow/o pres or current) | ion and/or Community | with 0 | If preservatio | with N/E species observed ion as mitigation, n adjustment factor = | | For impact assessment are | | |

Risk factor =

-0.4667

delta/(t-factor x risk) =

| | | (See Section 62 | -345.400, F. | A.C.) | | | |
|--|-----------------------------------|--|--|--|---|--|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | | |
| Fontana | | 180510-56 | 59 | | W-10 | | |
| FLUCCs Code | Further cla | assification (optional) | Impact or I | Mitigation Site | Assessment Area Size (acres) | | |
| 641 | Vegetated Non-Forested Wetland | | Impact | | 0.84 | | |
| Basin/Watershed Name/Number | , , | | _ | assification (i.e. Ol on of importance) | FW, AP, other local/state/federal | | |
| Lake Tohopekaliga N/A | | | | | N/A | | |
| Geographic relationship to and An herbaceous wetland system Toho via extensive ditch system | n adjacent | | | | iplands ydrologically connected to Lake | | |
| Assessment area (AA) descript A disturbed herbaceous wetland syst on-site wetlands (W-11 and W-12) by includes common sedges, smartween | em dominate | em. Its hydrologic regime h | nas been adv | ersely impacted by dite | | | |
| Significant nearby features | | | Uniqueness (considering the relative rarity in relation to the regional landscape) | | | | |
| A portion of Firar's Cove is located in the southwest corner. This cove is a part of the large Lake Tohopekaliga system. | | | Wetland ecosystem is common. | | | | |
| Functions Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | uatic & wetland dependent | Mitigation for previous permit/other historic use None | | | | |
| Anticipated Wildlife Utilization (List of species that are represand reasonably expected to be | entative of | | (List spec | d Utilization by Lis ies, their legal clas sity of use of the as | sification (E,T, SSC), type of use, | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles nern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | | |
| Observed Evidence of Wildlife (List species directly observed | | signs such as tracks, o | Iroppings, | casings nests, etc. |): | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Crar | • | - | | | | | |
| Additional relevant factors: | | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrolo | ogy and vegetative | components of wetland system. | | |
| Assessment conducted by: | | | Assessme | ent date(s): | | | |
| Morgan Clark | | | 9/6/2017 | | 9/6/2017 | | |

| Site/Project Name | | | Applicatio | n Number | Assessment Area Name | e or Number | | | |
|---|----------------------------|-----------|---|---|---|---|------------------|--|--|
| F | Fontana 180510-569 W-10 | | W-10 | | | | | | |
| mpact or Mitigation | | | Assessme | ent conducted by: | Assessment date: | | Assessment date: | | |
| I | mpact Morgan Clark 9/6/201 | | 9/6/2017 | | | | | | |
| Scoring Guidar | nce | Í | Optimal (10) | Moderate (7) | Minimal (4) | Not Present (0) | | | |
| The scoring of each in based on what would be for the type of wetland water assessed | oe suitable or surface | | 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 level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | | | |
| .500 (6)(b) Wat | | 0 nent | | sufficient to maintain c | | | | | |
| ` ' ' ' | | with | impacted by dit via a ditch. Hyd | ch system. Direct hydro Irologically connected to antly affects this wetland | logic connection to on-so Lake Toho via extensi | site wetlands (W-11ar ve ditch system. This | id W-12 | | |
| 4 | | 0 | ejevem eigimie | | | · · · · · · · · · · · · · · · · · · · | | | |
| .500 (6)(c) Com 1. Vegetat 2. Benthic (w/o pres or current 4 | ion and/or | with | However, a larg | storic species appropriate ger perentage of scattered into the maintenance of | d N/E species were obs | erved and portions thi | | | |
| 7 | | V | _ | | | _ | | | |
| Score = sum of | | | If preservati | on as mitigation, | | For impact assessm | ent areas | | |
| (if uplands, o | livide by 20 |) | | adjustment factor = | | FL = delta x acres = | 0.42 | | |
| w/o pres or current | r | with | Adjusted m | itigation delta = | | | | | |
| 0.5 | | 0.00 | | | | | | | |
| | | | | If mitigation | | For mitigation assess | ment are | | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

| | | (See Section 62 | -345.400, F | .A.C.) | | | |
|---|--|--|---|--|---|--|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | | |
| Fontana | | 180510-56 | 59 | | W-11 | | |
| FLUCCs Code | Further classification (optional) | | Impact or Mitigation Site | | Assessment Area Size (acres) | | |
| 641 | Freshwater Marshes | | Impact | | 0.08 | | |
| Basin/Watershed Name/Number | | | | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | |
| Lake Tohopekaliga N/A | | | | | N/A | | |
| Geographic relationship to and | hydrologi | c connection with wet | lands, othe | er surface waters, | uplands | | |
| A freshwater marsh wetland sy connected to Lake Toho via ex | | | | | system is hydrologically | | |
| Assessment area (AA) descripti | ion | | | | | | |
| (W-10 and W-12) by a ditch system. I | ts hydrologic | regime has been adverse | ely impacted l | by ditch system. Obse | ogically connected to on-site wetlands rved vegetation includes watergrass, scattered canopy of wax myrtle, Chinese | | |
| Significant nearby features | | | | ss (considering th andscape) | e relative rarity in relation to the | | |
| A portion of Firar's Cove is located cove is a part of the large Lake To | | | Wetland ecosystem is common. | | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | | |
| Functions provided include suitable w protection, etc.) for some species, par species; provides some water quality | rticularly aqu | atic & wetland dependent | nt None | | | | |
| Anticipated Wildlife Utilization I (List of species that are represe and reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s system supports potential Sandhill Cr | etc); reptiles ern leopard i ongbird, etc. | (black racer, rattlesnake, frog, etc.); and assorted | Tiviaging pirgs (E. 1.55C), rapiors (1.55C), replies (1.) mammais | | | | |
| Observed Evidence of Wildlife I (List species directly observed, | | igns such as tracks, o | Iroppings, | casings nests, etc | .): | | |
| | | | | | | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Cran | | | | | | | |
| Additional relevant factors: | | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrolo | ogy and vegetative | e components of wetland system. | | |
| Assessment conducted by: | | | Assessme | ent date(s): | | | |
| Morgan Clark | | | 9/6/2017 | , | | | |

| Fontana mpact or Mitigation Impact | | | 180510-569 | | W-11 | | | |
|---|-----------|---|---|---|---|-----------|--|--|
| | | Assessme | | | | | | |
| Impact | | , 1000001110 | ent conducted by: | Assessment date: | Assessment date: | | | |
| | N | Morgan Clark | 9/6/2017 | | | | | |
| Scoring Guidance Op | | 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 .500 (6)(a) Location and Landscape Support W/o pres or current 7 0 Copti Wet wat wet wat .500 (6)(a) Location and Landscape Support AA A di cont 7 | | 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 level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | | | |
| | | AA's hydrology | y sufficient to maintain c | community. Its hydrolog | | | | |
| w/o pres or current | with 0 | | tch system. Direct hydro drologically connected to | | | 10 W-12 | | |
| .500 (6)(c) Community strr 1. Vegetation and/or 2. Benthic Community w/o pres or current | | | storic species appropriat E species observed. | te for this type of system | n, is dominated by nati | ve spec | | |
| Score = sum of above scor | res/30 | If preservati | ion as mitigation, | | For impact assessment | ent areas | | |
| (if uplands, divide by 2 | | Preservation | n adjustment factor = | | | 0.0= | | |
| w/o pres or current | | Adjusted m | itigation delta = | | FL = delta x acres = | 0.050 | | |
| w/o pres or current | with | , , | | <u> </u> | | | | |
| w/o pres or current 0.7 | with 0.00 | | | <u> </u> | | | | |
| * | | | If mitigation | | For mitigation assessr | nent area | | |

Risk factor =

-0.7000

delta/(t-factor x risk) =

| | | (See Section 62 | -345.400, F | .A.C.) | | |
|--|--|--|---|---------------------------------|---|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | |
| Fontana | | 180510-56 | 59 | | W-12 | |
| FLUCCs Code | | assification (optional) | Impact or | Mitigation Site | Assessment Area Size (acres) | |
| 640 | Vegetated Non-Forested Wetland | | Impact | | 2.38 | |
| Basin/Watershed Name/Number | Affected Waterbody (class) | | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | | |
| Lake Tohopekaliga | Lake Tohopekaliga N/A | | | | N/A | |
| | Geographic relationship to and hydrologic connection with we | | | | | |
| A vegetated non-forested wetla connected to Lake Toho via ex | | | ern proper | y boundary. This s | system is nydrologically | |
| Assessment area (AA) descript | ion | | | | | |
| A disturbed vegetated non-forested wand W-11) by a ditch system. Its hydromaidencane, pickerel weed, duckpot | ologic regim | e has been adversely impa | acted by ditch | | connected to on-site wetlands (W-10 egetation includes common sedges, | |
| Significant nearby features | | | | ss (considering th andscape) | e relative rarity in relation to the | |
| | A portion of Firar's Cove is located in the southwest corner. This cove is a part of the large Lake Tohopekaliga system. | | | Wetland ecosystem is common. | | |
| Functions Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | uatic & wetland dependent | Mitigation for previous permit/other historic use None | | | |
| Anticipated Wildlife Utilization (List of species that are represand reasonably expected to be | Based on lentative of | Literature Review | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles nern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | |
| Observed Evidence of Wildlife (List species directly observed | | signs such as tracks, c | lroppings, | casings nests, etc | .): | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Crar | | | | | | |
| Additional relevant factors: | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrolo | ogy and vegetative | e components of wetland system. | |
| Assessment conducted by: | | | | ent date(s): | | |
| Morgan Clark | | | 9/6/2017 | | | |

| Site/Project Name Fontana | | Applicatio | n Number | Assessment Area Name | e or Number | |
|---|---|--|---|--|---|--|
| | | | 180510-569 | W-12 | | |
| Impact or Mitigation | | Assessme | Assessment conducted by: Assessment date: | | | |
| Impact | | N | Iorgan Clark | 9/6/2017 | | |
| Scoring Guidance | Г | 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 | the scoring of each indicator is sed on what would be suitable the type of wetland or surface Concepts optima suj wetlan | | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| | | | | | | |
| | Α | | | | ic regime has been adverse site wetlands (W-10 and W | |
| | A ir | npacted by dite | ch system. Direct hydro | | site wetlands (W-10 and W | |
| (n/a for uplands) w/o pres or current | with v 0 | npacted by dittia a ditch. Hyd | ch system. Direct hydro rologically connected to | logic connection to on-so Lake Toho via extension to the contract of the contr | site wetlands (W-10 and W | |
| (n/a for uplands) w/o pres or current 5 .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 5 | with V 0 ceture A with 0 | npacted by ditain a ditch. Hyd A contains his pecies. Scatter | ch system. Direct hydro rologically connected to storic species appropriat | logic connection to on-so Lake Toho via extension to the contract of the contr | site wetlands (W-10 and W ve ditch system. | |
| (n/a for uplands) w/o pres or current 5 .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current | with 0 A S S S S S S S S S S S S S S S S S S | mpacted by dittia a ditch. Hyd A contains his pecies. Scattered | ch system. Direct hydro rologically connected to storic species appropriated N/E species were obs | logic connection to on-so Lake Toho via extension to the contract of the contr | site wetlands (W-10 and W ve ditch system. n, and is dominated by native For impact assessment are | |
| w/o pres or current 5 .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 5 Score = sum of above score | with 0 A S S S S S S S S S S S S S S S S S S | A contains his pecies. Scattered If preservation | ch system. Direct hydro rologically connected to storic species appropriated N/E species were observed on as mitigation, | logic connection to on-so Lake Toho via extension to the contract of the contr | site wetlands (W-10 and W ve ditch system. n, and is dominated by native | |
| (n/a for uplands) w/o pres or current 5 .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current 5 Score = sum of above score (if uplands, divide by 20) | with V 0 cture A with 0 s/30 0) | A contains his pecies. Scattered If preservation | ch system. Direct hydro rologically connected to storic species appropriated N/E species were observed as mitigation, adjustment factor = | logic connection to on-so Lake Toho via extension to the contract of the contr | site wetlands (W-10 and W ve ditch system. n, and is dominated by native For impact assessment are | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

| | | (See Section 62 | -345.400, F | .A.C.) | | |
|---|--|---|---|--|--|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number | |
| Fontana | | 180510-56 | 59 | | W-13 | |
| FLUCCs Code | Further classification (optional) | | Impact or | Mitigation Site | Assessment Area Size (acres) | |
| 641 | Fresh Water Marsh | | | Impact | 4.83 | |
| Basin/Watershed Name/Number | · · · · · · · · · · · · · · · · · · · | | | Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) | | |
| Lake Tohopekaliga N/A | | | | | N/A | |
| Geographic relationship to and | hydrologi | c connection with we | tlands, oth | er surface waters, ι | ıplands | |
| An isolated fresh water marsh e eastern boundary. This system | • | | | boundary. A ditch is | s located along the wetland's | |
| Assessment area (AA) descript | ion | | | | | |
| the wetland is not as evident when co | mpared to th grass domina | ne other systems on-site. \ ited uplands. Observed ve | Vegetation wi | thin the wetland consisudes common sedges, | wetland's eastern boundary, its impact to tts of typical marsh flora which smartweed, pickerel weed, duckpotato, | |
| Significant nearby features | | | | ss (considering the andscape) | e relative rarity in relation to the | |
| A portion of Firar's Cove is located cove is a part of the large Lake To | | | Wetland ecosystem is common. | | | |
| Functions | | | Mitigation for previous permit/other historic use | | | |
| Functions provided include suitable w protection, etc.) for some species, par species; provides some water quality | rticularly aqu | atic & wetland dependent | None None | | | |
| Anticipated Wildlife Utilization ((List of species that are represe and reasonably expected to be | entative of | | Anticipated Utilization by Listed Species (List species, their legal classification (E,T, SSC), type of use, and intensity of use of the assessment area) | | | |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s system supports potential Sandhill Cr | etc); reptiles ern leopard ongbird, etc. | (black racer, rattlesnake, frog, etc.); and assorted). In particular, this | Wading birds (E,T,SSC), raptors (T,SSC), reptiles (T), mammals (SSC) | | | |
| Observed Evidence of Wildlife (List species directly observed, | | igns such as tracks, o | droppings, | casings nests, etc. |): | |
| | | | | | | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Cran | | | | | | |
| Additional relevant factors: | | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | ered hydrol | ogy and vegetative | components of wetland system. | |
| Assessment conducted by: | | | Assessm | ent date(s): | | |
| Morgan Clark | | | 9/6/2017 | • | | |

| Site/Project Name | | Application | n Number | Assessment Area Nam | e or Number | |
|--|--------------|---|---|---|---|--------------|
| Fontana | | | 180510-569 | W-13 | | |
| Impact or Mitigation | Assessme | ent conducted by: | Assessment date: 9/6/2017 | | | |
| Impact | | N | | | | Aorgan Clark |
| 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 wet | | 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 level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| | | | ear the western boundar he wetland's eastern bou | - | improved pasture. A ditch is | |
| .500 (6)(b) Water Environm (n/a for uplands) w/o pres or current | | sufficient to maintain cic connection to on or of | | ence of hydrologic regime. No (isolated). | | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community AA | | AA contains his as no N/E speci | | e for this type of systen | n, is dominated by native species | |
| | | | | | <u> </u> | |
| Score = sum of above scores (if uplands, divide by 20) | | • | ion as mitigation, | | For impact assessment areas | |
| | | | n adjustment factor = | | FL = delta x acres = 3.381 | |
| w/o pres or current 0.7 | with 0.00 | Adjusted m | itigation delta = | | | |
| U./ | 0.00 | | If mitigation | | For mitigation assessment areas | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

PART I - QUALITATIVE DESCRIPTION

| | | PART I - QUALITAT (See Section 62- | _ | - | | |
|--|--|---|--|---|---------------------------------------|--|
| Site/Project Name | | Application Number | | Assessment Area | a Name or Number | |
| Fontana | | 180510-56 | 180510-569 | | W-14 | |
| FLUCCs Code | Further classification (optional) | | Impact or Mitigation Site | | Assessment Area Size (acres) | |
| 640 | Vegetated Non-Forested Wetland | | | Impact 12.6 | | |
| Basin/Watershed Name/Number | Affected Waterbody (class) | | Special Classification (i.e. OFW, AP, other local/state/federadesignation of importance) | | | |
| Lake Tohopekaliga | | N/A | | | N/A | |
| north but transistions from that mesic | cted to Lal tion and system december | ke Toho via undergrou ominated by native species tic to obligate and faculative | ind pipping s. It consists e-wet vegeta | of a large wet prairie of tion to the south. Obs | component around its periphery to the | |
| willow and rattlebox thoughout. Significant nearby features A portion of Firar's Cove is locate cove is a part of the large Lake T | | | Uniqueness (considering the relative rarity in relation to the regional landscape) Wetland ecosystem is common. | | | |
| Functions Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | articularly aqu | uatic & wetland dependent | Mitigation for previous permit/other historic use None | | | |
| Anticipated Wildlife Utilization (List of species that are repres and reasonably expected to be | Based on entative of | Literature Review | (List spec | ed Utilization by Li cies, their legal cla sity of use of the a | ssification (E,T, SSC), type of use | |
| Based on location, anticipated wildlif mammals (opossum, squirrels, deer, moccasin, brown/green anoles, soutl avian species (wading birds, raptor, | etc); reptiles nern leopard | s (black racer, rattlesnake, frog, etc.); and assorted | Wading bi | rds (E,T,SSC), rapt | tors (T,SSC), reptiles (T), mammals | |
| Observed Evidence of Wildlife (List species directly observed | | | Iroppings, | casings nests, etc | ·.): | |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Crar | | 0. | | | | |

Additional relevant factors:

Cattle grazing and drainage improvements have adversely altered hydrology and vegetative components of wetland system.

| Assessment conducted by: | Assessment date(s): |
|--------------------------|---------------------|
| Morgan Clark | 9/6/2017 |

| Site/Project Name | | | Application | on Number | Assessment Area Nam | e or Number |
|--|---|--------------------|---|--|---|--|
| F | ontana | | | 180510-569 | | W-14 |
| npact or Mitigation | | | Assessme | ent conducted by: | Assessment date: | |
| I | mpact | | N | Morgan Clark | | 9/6/2017 |
| Scoring Guida | nce | | Optimal (10) | Moderate (7) | Minimal (4) | Not Present (0) |
| The scoring of each ir lased on what would be or the type of wetland water assesse | dicator is be suitable or surface | | 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 level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions |
| 7 .500 (6)(b) War | eer Environn uplands) | with 0 | parallel to its so boundary. | outhern boundary. Ditch | es are located along the | is system and runs directly wetland's southern and eas ic regime has been adversel |
| w/o pres or current | upianus) | with | impacted by dit underground pi | tch systems and roadway | s. Hydrologically conn | ected to Lake Toho via |
| | | 0 | | FF6: | | |
| 2. Benthic | munity struction and/or Community | - | | | | 1, and is dominated by nativ |
| 1. Vegetat 2. Benthic w/o pres or current | cion and/or Community | with 0 | species. Scatter | storic species appropriat | | n, and is dominated by nativ |
| 1. Vegetar 2. Benthic w/o pres or current 6 | cion and/or Community | with 0 | species. Scatter | storic species appropriated N/E species were obs | | For impact assessment area |
| 1. Vegetar 2. Benthic w/o pres or current 6 Score = sum of (if uplands, | cion and/or Community | with 0 | If preservatio | storic species appropriated N/E species were observed not be species with the state of the state | | |
| 1. Vegetar 2. Benthic w/o pres or current 6 Score = sum of (if uplands, | cion and/or Community | with 0 | If preservatio | storic species appropriated N/E species were obstitution as mitigation, adjustment factor = | | For impact assessment area |
| 1. Vegetar 2. Benthic w/o pres or current 6 Score = sum of (if uplands, or current) w/o pres or current | cion and/or Community | with 0 s/30) with | If preservatio | storic species appropriated N/E species were obstitution as mitigation, adjustment factor = | | For impact assessment area |

Risk factor =

-0.6000

delta/(t-factor x risk) =

| | | PART I - QUALITA (See Section 62 | | | |
|---|------------------|-------------------------------------|--------------------|---|---|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number |
| Fontana | | 180510-56 | 59 | | W-16 |
| FLUCCs Code | Further cla | assification (optional) | Impact or | Mitigation Site | Assessment Area Size (acres) |
| 521 | Friar | s Cove shorline | | Impact | 0.059 |
| Basin/Watershed Name/Number | Affected \ | Naterbody (class) | - | lassification (i.e. O on of importance) | PFW, AP, other local/state/federal |
| Lake Tohopekaliga | | N/A | | | N/A |
| Geographic relationship to and | d hydrologi | ic connection with we | lands, othe | er surface waters, | uplands |
| A vegetated non-forested wetl adjacent to Friar's Cove Road Assessment area (AA) descrip | | n associated with the | shoreline o | f Friars Cove/Lake | Toho, located south of and |
| includes pickerelweed, arrowhead, c maidencane. | | | eed, marsh p | ennywort, watergrass, | otic species as well. Observed vegetatior coinwort, spikerush, torpedo grass, and |
| Significant nearby features | | | | ss (considering th andscape) | e relative rarity in relation to the |
| Associated with the shorline of F northern edge. This cove is a par system. | | · · | Wetland | ecosystem is co | mmon. |
| Functions | | | Mitigation | for previous perm | nit/other historic use |
| Functions provided include suitable of protection, etc.) for some species, paspecies; provides some water quality | articularly aqu | uatic & wetland dependent | None | | |
| Anticipated Wildlife Utilization (List of species that are repres and reasonably expected to be | entative of | | (List spec | ed Utilization by Listices, their legal classisty of use of the a | ssification (E,T, SSC), type of use, |
| Based on location, anticipated wildlif brown/green anoles, southern leopal species (wading birds, raptor, songb | rd frog, etc.) a | | Wading bi (SSC) | rds (E,T,SSC), rapto | ors (T,SSC), reptiles (T), mammals |
| Observed Evidence of Wildlife (List species directly observed | | signs such as tracks, o | droppings, | casings nests, etc | .): |

brown anole, black racer, green anole, leopard frog,cricket frog, oak toad, armadillo, raccoon, Red-tailed Hawk, Mourning Dove, Mockingbird, Quail, Sandhill Crane, Carolina Wren, Wood stork, white eye vireo grey squirrel, deer, oldfield rat, etc.

Additional relevant factors:

Cattle grazing and drainage improvements have adversely altered hydrology, water quality, and vegetative components of wetland system.

| Assessment conducted by: | Assessment date(s): |
|--------------------------|---------------------|
| Morgan Clark | 9/6/2017 |

| Site/Project Name | | | Applicatio | n Number | Assessment Area Nam | e or Number | |
|---|--------------|---------------------------|---|---|---|---|-----------|
| Font | tana | | | 180510-569 | | W-16 | |
| mpact or Mitigation | | | Assessme | ent conducted by: | Assessment date: | | |
| Imp | oact | | N | Morgan Clark | | 9/6/2017 | |
| Scoring Guidance | | Op | timal (10) | Moderate (7) | Minimal (4) | Not Present (0) | |
| The scoring of each indica based on what would be su for the type of wetland or s water assessed | uitable | Co optim s wetla | ndition is nal and fully upports and/surface or functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| w/o pres or current 7 .500 (6)(b) Water E | | paral the o | lel to its no verall proje | Friar's Cove Road is adjorthern shoreline. Nume ect's improved pastures | rous discharges of surfa outfall into the AA. | ace water/ditches asso | ciated w |
| (n/a for uplaw/o pres or current | with 0 | impa | | ch systems and roadway | | | |
| .500 (6)(c) Commur 1. Vegetation 2. Benthic Con w/o pres or current | and/or | speci | | storic species appropriated N/E species were obs | | n, and is dominated by | native |
| Score = sum of abo | ve scores/30 | | If preservati | on as mitigation, | | For impact assessme | ent areas |
| (if uplands, divident | | | Preservation | adjustment factor = | | El lake a con | 0.044 |
| w/o pres or current | with | n | Adjusted m | itigation delta = | | FL = delta x acres = | 0.040 |
| 0.666666667 | 0.00 | 0 | | | | | |
| | | | | If mitigation | | For mitigation assess | ment area |
| Delta = [with o | .a | | Time lag (t- | C | | RFG = | |

Risk factor =

-0.6667

delta/(t-factor x risk) =

| | | (See Section 62 | -345.4UU, F | .A.C.) | |
|--|-------------------------------|--|---------------------------------|--|--|
| Site/Project Name | | Application Number | | Assessment Area Na | ame or Number |
| Fontana | | 180510-56 | 59 | | W-4 (sec) |
| FLUCCs Code | Further cla | assification (optional) | Impact or | Mitigation Site | Assessment Area Size (acres) |
| 630 | Mixed | Forested Wetland | | Impact | 0.44 |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | - | lassification (i.e. OFV on of importance) | /, AP, other local/state/federal |
| Lake Tohopekaliga | | N/A | | N | /A |
| Geographic relationship to and | hydrologi | c connection with wet | lands, oth | er surface waters, upl | ands |
| Mixed forested wetland system pasture to the south and east. west. | | | | | tem is surrounded by improved tends off-site to the north and |
| Assessment area (AA) descript | ion | | | | |
| An undisturbed mixed forested wetlar extends north and west of the propert that transitions into an obligate and faconsists of dogfennel, blackberry, care | y boundary. aculative-wet | The most landward comp dominated canopy. The o | onent of this canopy of this | system is a shrubby mixtors system consists of scatt | ure of mesic and faculative-wet flora ered cypress, and its groundcover |
| Significant nearby features | | | | ess (considering the re andscape) | elative rarity in relation to the |
| A portion of Firar's Cove is locate cove is a part of the large Lake To | | | Wetland | ecosystem is comr | non. |
| Functions | | | Mitigation | n for previous permit/o | other historic use |
| Functions provided include suitable w protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | atic & wetland dependent | None | | |
| Anticipated Wildlife Utilization (List of species that are represonand reasonably expected to be | entative of | | (List spec | ed Utilization by Liste cies, their legal classi sity of use of the asso | fication (E,T, SSC), type of use, |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles ern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading bi (SSC) | rds (E,T,SSC), raptors | (T,SSC), reptiles (T), mammals |
| Observed Evidence of Wildlife (List species directly observed | | signs such as tracks, c | Iroppings, | casings nests, etc.): | |
| brown anole, black racer, green a | ınole, leopa | ırd frog,cricket frog, oak | toad, arma | dillo, raccoon, Red-taile | ed Hawk, Mourning Dove, |
| Mockingbird, Quail, Sandhill Cran | e, Carolina | Wren, Wood stork, whi | te eye vired | o grey squirrel, deer, old | dfield rat, etc. |
| Additional relevant factors: | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrol | ogy and vegetative co | omponents of wetland system. |
| Assessment conducted by: | | | Assessm | ent date(s): | |
| Morgan Clark | | | 9/6/2017 | , | |

| Site/Project Name | | Applicatio | n Number | Assessment Area Nam | e or Number |
|--|--------------|--|---|---|---|
| Fontana | | | 180510-569 | | W-4 (sec) |
| Impact or Mitigation | | Assessme | ent conducted by: | Assessment date: | |
| Impact | | N | Iorgan Clark | | 9/6/2017 |
| Scoring Guidance | Ol | otimal (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 | optii wet | ondition is mal and fully supports land/surface er functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions |
| w/o pres or current with 7 6 .500 (6)(b) Water Environment | | imal advers | e impact to AA based o | n adjacent development | t. |
| (n/a for uplands) w/o pres or current with 3 3 | | changes to A | AA based on adjacent d | evelopment. | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 3 2 | | imal advers | e impact to AA based o | n adjacent development | t. |
| | | | | | |
| Score = sum of above scores/30 (if uplands, divide by 20) | | | on as mitigation, | | For impact assessment areas |
| w/o pres or current | | | adjustment factor = | | FL = delta x acres = 0.029 |
| 0.433333333 0.33 | _ | | | | |
| 0.15555555 | | | If mitigation | | For mitigation assessment areas |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

| | | (See Section 62 | -345.400, F | .A.C.) | |
|---|--|--|--------------------|---|---|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number |
| Fontana | | 180510-56 | 59 | | W-11 (sec) |
| FLUCCs Code | Further cla | assification (optional) | Impact or | Mitigation Site | Assessment Area Size (acres) |
| 641 | Fresł | nwater Marshes | | Impact | 0.15 |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | - | lassification (i.e. Ol on of importance) | FW, AP, other local/state/federal |
| Lake Tohopekaliga | | N/A | | | N/A |
| Geographic relationship to and | hydrologi | c connection with wet | lands, othe | er surface waters, u | ıplands |
| A freshwater marsh wetland sy connected to Lake Toho via ex | | | | | system is hydrologically |
| (W-10 and W-12) by a ditch system. I | narsh wetlan ts hydrologic | regime has been adverse | ely impacted l | oy ditch system. Obser | ogically connected to on-site wetlands ved vegetation includes watergrass, cattered canopy of wax myrtle, Chinese |
| Significant nearby features | | | | ss (considering the andscape) | e relative rarity in relation to the |
| A portion of Firar's Cove is located cove is a part of the large Lake To | | | Wetland | ecosystem is cor | mmon. |
| Functions | | | Mitigation | for previous perm | it/other historic use |
| Functions provided include suitable w protection, etc.) for some species, par species; provides some water quality | rticularly aqu | atic & wetland dependent | None | | |
| Anticipated Wildlife Utilization ((List of species that are represe and reasonably expected to be | entative of | | (List spec | ed Utilization by Lis ies, their legal clas sity of use of the as | sification (E,T, SSC), type of use, |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s system supports potential Sandhill Cr | etc); reptiles ern leopard ongbird, etc. | (black racer, rattlesnake, frog, etc.); and assorted | Wading bi (SSC) | rds (E,T,SSC), rapto | ers (T,SSC), reptiles (T), mammals |
| Observed Evidence of Wildlife ((List species directly observed, | | igns such as tracks, o | Iroppings, | casings nests, etc. |): |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Cran | | | | | |
| Additional relevant factors: | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrolo | ogy and vegetative | components of wetland system. |
| Assessment conducted by: | | | Assessme | ent date(s): | |
| Morgan Clark | | | 9/6/2017 | | |

| Site/Project Name | | Applicatio | n Number | Assessment Area Name | e or Number | |
|---|------------|--|---|---|---|-------|
| Fontana | | | 180510-569 | V | V-11 (sec) | |
| mpact or Mitigation | | Assessme | ent conducted by: | Assessment date: | | |
| Impact | | N | Arogan Clark | | 9/6/2017 | |
| 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 | W | Condition is otimal and fully supports retland/surface vater functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| .500 (6)(b) Water Environm | with 6 | | | | | |
| (n/a for uplands) w/o pres or current | No with | o changes to A | AA based on adjacent d | evelopment. | | |
| 7 .500 (6)(c) Community struc 1. Vegetation and/or 2. Benthic Community | | inimal advers | e impact to AA based o | on adjacent development | | |
| w/o pres or current | with 6 | | | | | |
| w/o pres or current 7 | 6 | If preservati | on as mitigation, | | For impact assessment a | ıreas |
| w/o pres or current | 6 | | on as mitigation, n adjustment factor = | | For impact assessment a | ıreas |
| w/o pres or current 7 Score = sum of above scores | 6 | Preservation | | | - | |
| w/o pres or current 7 Score = sum of above scores (if uplands, divide by 20) | 6 | Preservation | adjustment factor = | | - | nreas |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

| | | (See Section 62 | -345.400, F. | A.C.) | |
|--|-------------------------------|--|--------------------------|--|--|
| Site/Project Name | | Application Number | | Assessment Area | Name or Number |
| Fontana | | 180510-56 | 59 | | W-14 (sec) |
| FLUCCs Code | Further cla | assification (optional) | Impact or I | Mitigation Site | Assessment Area Size (acres) |
| 640 | Vegeta | ted Non-Forested Wetland | | Impact | 0.95 |
| Basin/Watershed | Affected V | Vaterbody (class) | Special Cl | assification (i.e. C | OFW, AP, other local/state/federal |
| Name/Number | | | designation | on of importance) | |
| Lake Tohopekaliga | | N/A | | | N/A |
| Geographic relationship to and | l hydrologi | c connection with wet | lands, othe | er surface waters, | uplands |
| A vegetated non-forested wetla wetland was contiguous to Fria system is hydrologically conne | r's Cove b | ut it has sense been s | seperated v | ria the constructio | |
| Assessment area (AA) descript | ion | | | | |
| north but transistions from that mesic | characterist | ic to obligate and faculative | e-wet vegetat | ion to the south. Obs | component around its periphery to the erved vegetation includes common nalky bluestem, with scattered primrose |
| Significant nearby features | | | Uniquenes regional la | , | e relative rarity in relation to the |
| A portion of Firar's Cove is locate cove is a part of the large Lake T | | | Wetland | ecosystem is co | ommon. |
| Functions Functions provided include suitable v protection, etc.) for some species, pa species; provides some water quality | rticularly aqu | atic & wetland dependent | | for previous pern | nit/other historic use |
| Anticipated Wildlife Utilization (List of species that are represand reasonably expected to be | entative of | | (List spec | d Utilization by Li ies, their legal classity of use of the a | ssification (E,T, SSC), type of use, |
| Based on location, anticipated wildlife mammals (opossum, squirrels, deer, moccasin, brown/green anoles, south avian species (wading birds, raptor, s | etc); reptiles ern leopard | (black racer, rattlesnake, frog, etc.); and assorted | Wading bir | rds (E,T,SSC), rapto | ors (T,SSC), reptiles (T), mammals |
| Observed Evidence of Wildlife (List species directly observed | | igns such as tracks, c | Iroppings, | casings nests, etc | :.): |
| brown anole, black racer, green a Mockingbird, Quail, Sandhill Crar | | | | | |
| Additional relevant factors: | | | | | |
| Cattle grazing and drainage im | provemen | ts have adversely alte | red hydrolo | ogy and vegetative | e components of wetland system. |
| Assessment conducted by: | | | Assessme | ent date(s): | |

9/6/2017

Morgan Clark

| Site/Project Name | | Applicatio | n Number | Assessment Area Nam | e or Number |
|--|----------------------|--|---|---|---|
| Fontana | | • • | 180510-569 | | W-14 (sec) |
| Impact or Mitigation | | Assessme | ent conducted by: | Assessment date: | |
| Impact | | N | Aorgan Clark | | 9/6/2017 |
| Scoring Guidance | Opt | timal (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 | optim si wetla | ndition is nal and fully upports and/surface r functions | Condition is less than optimal, but sufficient to maintain most wetland/surface water functions | Minimal level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions |
| .500 (6)(a) Location and Landscape Support w/o pres or current with 7 6 | Minii | mal advers | e impact to AA based o | on adjacent developmen | t. |
| .500 (6)(b) Water Environment (n/a for uplands) w/o pres or current with 5 5 | No cl | nanges to A | AA based on adjacent de | evelopment. | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 5 | Minii | mal advers | e impact to AA based o | n adjacent developmen | t. |
| | | | | | T |
| Score = sum of above scores/30 | | _ | on as mitigation, | | For impact assessment areas |
| (if uplands, divide by 20) | | | adjustment factor = | | FL = delta x acres = 0.064 |
| w/o pres or current with | 4 | Adjusted m | itigation delta = | | |
| 0.6 0.53 | _ | | If mitigation | | For mitigation assessment areas |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]

| Site/Project Name | | Application Number | | Assessment Are | ea Name or Number |
|--|--|---|---|---|--|
| Fontana | | 180510-56 | 9 | | W-16 (sec) |
| FLUCCs Code | Further cla | ssification (optional) | Impact or I | Mitigation Site | Assessment Area Size (acres) |
| 521 | Friar | s Cove shorline | | Impact | 0.360 |
| Basin/Watershed Name/Number | Affected V | Vaterbody (class) | | lassification (i.e. on of importance | OFW, AP, other local/state/federal) |
| Lake Tohopekaliga | | N/A | | | N/A |
| Geographic relationship to and | l hydrologi | c connection with wet | lands, othe | er surface waters | , uplands |
| | | | | | |
| | | n associated with the s | snoreline of | f Friars Cove/Lai | ke Toho, located south of and |
| adjacent to Friar's Cove Road. | | n associated with the s | noreline of | f Friars Cove/Lai | ke Toho, located south of and |
| Assessment area (AA) description An aquatic wetland system with emerincludes pickerelweed, arrowhead, cumaidencane. | ion gent vegetat | ion dominated by native sp | pecies, but co ed, marsh pe | ontaining nuisance/e ennywort, watergras | exotic species as well. Observed vegetatio s, coinwort, spikerush, torpedo grass, and |
| | ion gent vegetat | ion dominated by native sp | pecies, but co | ontaining nuisance/e ennywort, watergras | exotic species as well. Observed vegetations, coinwort, spikerush, torpedo grass, and the relative rarity in relation to the |
| Assessment area (AA) description An aquatic wetland system with emerincludes pickerelweed, arrowhead, cumaidencane. Significant nearby features Associated with the shorline of Finnorthern edge. This cove is a part | ion gent vegetat uban bulrush rar's Cove, | ion dominated by native sp , cattail, soft rush, smartwe | uecies, but co red, marsh pe Uniquene regional la | ontaining nuisance/e ennywort, watergras ss (considering t | exotic species as well. Observed vegetations, coinwort, spikerush, torpedo grass, and the relative rarity in relation to the |
| Assessment area (AA) description An aquatic wetland system with emerincludes pickerelweed, arrowhead, comaidencane. Significant nearby features Associated with the shorline of Firenorthern edge. This cove is a part system. Functions | rgent vegetat uban bulrush rar's Cove, t of the larg | ion dominated by native sp , cattail, soft rush, smartwe AA located along its e Lake Tohopekaliga | uniquener regional la | ontaining nuisance/e ennywort, watergras ss (considering t andscape) ecosystem is c | exotic species as well. Observed vegetations, coinwort, spikerush, torpedo grass, and the relative rarity in relation to the |
| Assessment area (AA) description An aquatic wetland system with emerincludes pickerelweed, arrowhead, cumaidencane. | rgent vegetat uban bulrush rar's Cove, t of the larg | ion dominated by native sp , cattail, soft rush, smartwe AA located along its e Lake Tohopekaliga t (foraging, nesting, atic & wetland dependent | Uniqueneregional la | ontaining nuisance/e ennywort, watergras ss (considering t andscape) ecosystem is c | exotic species as well. Observed vegetatic s, coinwort, spikerush, torpedo grass, and the relative rarity in relation to the common. |
| Assessment area (AA) description An aquatic wetland system with emerincludes pickerelweed, arrowhead, commidencane. Significant nearby features Associated with the shorline of Fire northern edge. This cove is a particular system. Functions Functions Functions provided include suitable we protection, etc.) for some species, particular system. Anticipated Wildlife Utilization I | rar's Cove, tof the larguidlife habita rticularly aquand storage | ion dominated by native sp, cattail, soft rush, smartwe AA located along its e Lake Tohopekaliga t (foraging, nesting, atic & wetland dependent | Uniqueneregional la Wetland Mitigation None Anticipate | entaining nuisance/ennywort, watergras ss (considering tandscape) ecosystem is confor previous per | exotic species as well. Observed vegetatic s, coinwort, spikerush, torpedo grass, and the relative rarity in relation to the common. |
| Assessment area (AA) description An aquatic wetland system with emerincludes pickerelweed, arrowhead, commidencane. Significant nearby features Associated with the shorline of Firmorthern edge. This cove is a part system. Functions Functions Functions provided include suitable we protection, etc.) for some species, part species; provides some water quality | rar's Cove, tof the larguidlife habita rticularly aquand storage | ion dominated by native sp, cattail, soft rush, smartwe AA located along its e Lake Tohopekaliga t (foraging, nesting, atic & wetland dependent | Uniqueneregional la Wetland Mitigation None Anticipate (List spec | entaining nuisance/ennywort, watergras ss (considering tandscape) ecosystem is confor previous performer previous performer | exotic species as well. Observed vegetatic s, coinwort, spikerush, torpedo grass, and the relative rarity in relation to the common. |

brown anole, black racer, green anole, leopard frog,cricket frog, oak toad, armadillo, raccoon, Red-tailed Hawk, Mourning Dove, Mockingbird, Quail, Sandhill Crane, Carolina Wren, Wood stork, white eye vireo grey squirrel, deer, oldfield rat, etc.

Additional relevant factors:

Cattle grazing and drainage improvements have adversely altered hydrology, water quality, and vegetative components of wetland system.

| Assessment conducted by: | Assessment date(s): |
|--------------------------|---------------------|
| Morgan Clark | 9/6/2017 |

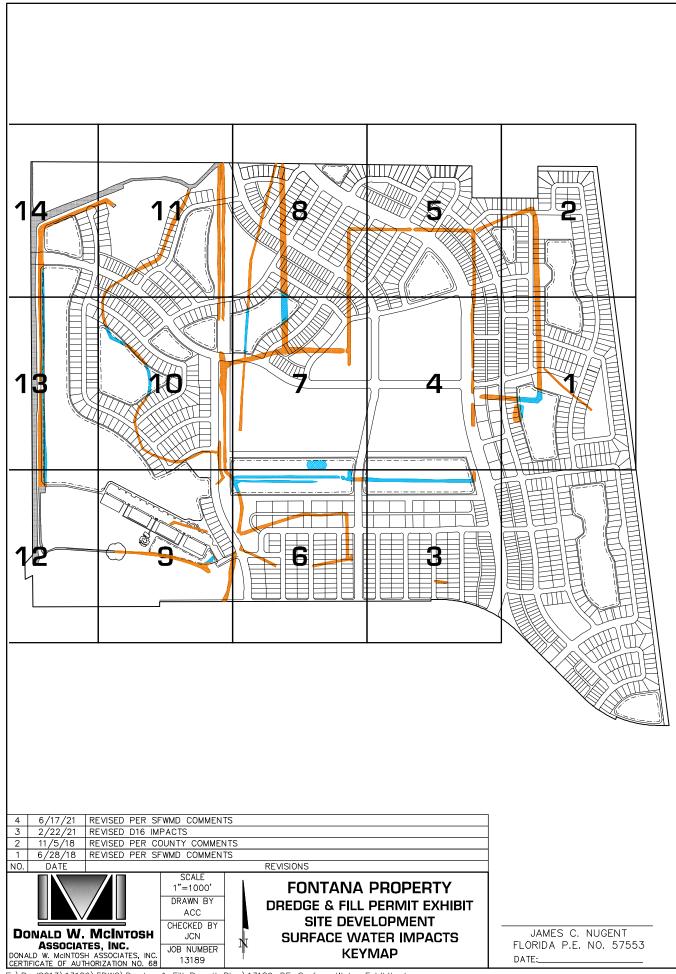
| Site/Project Name Fontana | | Application Number | | Assessment Area Name or Number | | |
|--|-----------|--|---------------------------------------|---|---|--|
| | | | 180510-569 | W-16 (sec) | | |
| mpact or Mitigation | | Assessme | nt conducted by: | Assessment date: | | |
| Impact | | Morgan Clark | | 9/6/2017 | | |
| Scoring Guidance | | Optimal (10) | Moderate (7) | Minimal (4) | Not Present (0) | |
| for the type of wetland or surface | | 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 level of support of wetland/surface water functions | Condition is insufficient to provide wetland/surface water functions | |
| w/o pres or current 7 .500 (6)(b) Water Environme | with 6 | | | | | |
| (n/a for uplands) w/o pres or current | | No changes to AA based on adjacent development. | | | | |
| .500 (6)(c) Community structure 1. Vegetation and/or 2. Benthic Community Minimal adverse impact to AA based on adjacent development. | | | | | | |
| 1. Vegetation and/or | Mi | nimal advers | e impact to AA based o | n adjacent development | | |
| Vegetation and/or Benthic Community | Mi | nimal advers | e impact to AA based o | n adjacent development | | |
| Negetation and/or Benthic Community w/o pres or current | with 5 | | e impact to AA based o | n adjacent development | . For impact assessment areas | |
| Negetation and/or Benthic Community w/o pres or current 6 | Mi with 5 | If preservati | | n adjacent development | For impact assessment areas | |
| 1. Vegetation and/or 2. Benthic Community w/o pres or current 6 Score = sum of above scores. | Mi with 5 | If preservation | on as mitigation, | n adjacent development | | |
| 1. Vegetation and/or 2. Benthic Community w/o pres or current 6 Score = sum of above scores (if uplands, divide by 20) | Mi with 5 | If preservation | on as mitigation, adjustment factor = | n adjacent development | For impact assessment areas | |

Time lag (t-factor) =

Risk factor =

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

Delta = [with current]



LEGEND

1 EXISTING SURFACE WATER NUMBER*

EEEEEE EXISTING SURFACE WATERS

FILL IMPACTS TO SURFACE WATERS

DREDGE IMPACTS TO SURFACE WATERS

LABELS

SWI = SURFACE WATER IMPACT

(F) = IMPACTS DUE TO FILL IMPROVEMENTS

(D) = IMPACTS DUE TO DREDGE IMPROVEMENT

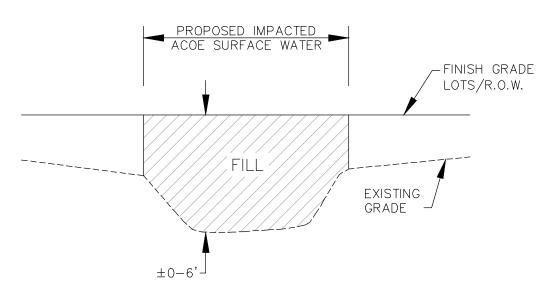
*NOTE: SURFACE WATERS WITHOUT A NUMBER DESIGNATION ARE DITCHES OR CANALS



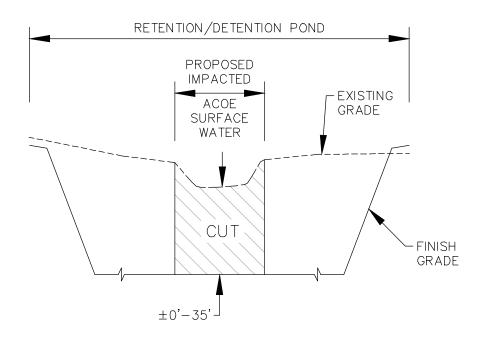
SCALE
NTS
DRAWN BY
ACC
CHECKED BY
JCN
JOB NUMBER
13189

FONTANA PROPERTY
DREDGE & FILL PERMIT EXHIBIT
SITE DEVELOPMENT
SURFACE WATER IMPACTS
LEGEND

JAMES C. NUGENT FLORIDA P.E. NO. 57553



TYPICAL SECTION — FILL IMPACT PROPOSED IMPACTED ACOE SURFACE WATER



TYPICAL SECTION — CUT IMPACT PROPOSED IMPACTED ACOE SURFACE WATER



FONTANA PROPERTY
DREDGE & FILL PERMIT EXHIBIT
SITE DEVELOPMENT
SURFACE WATER IMPACTS
SECTIONS

JAMES C. NUGENT FLORIDA P.E. NO. 57553 DATE:

| SURFACE WATER IMPACTS DUE TO FILL IMPROVEMENTS | | | |
|--|-----------------|-------------|-----------|
| DESCRIPTION | ID | AREA (SF) | AREA (AC) |
| SWI-1A | SW-1 | 12,896 | 0.30 |
| SWI-A | D1 | 9,598 | 0.22 |
| SWI-B | SWI-B D3 | | 2.43 |
| SWI-D | D3 | 16,926 | 0.39 |
| SWI-E | D2 | 2,731 | 0.06 |
| SWI-F | D9 | 2,902 | 0.07 |
| SWI-H | D4 | 7,819 | 0.18 |
| SWI-I | SWI-I D5 5,152 | | 0.12 |
| SWI-J | SWI-J D6 56,681 | | 1.30 |
| SWI-K | D7 | 16,620 | 0.38 |
| SWI-L | D13 | 60,930 | 1.39 |
| SWI-M | D12 | 8,368 | 0.19 |
| SWI-N | D11 | 20,509 | 0.47 |
| SWI-0 | D9 | 4,172 | 0.09 |
| SWI-S | D13 | 135,965 | 3.12 |
| SWI-T | D8 | 45,488 | 1.04 |
| SWI-W | D13 | 30,354 | 0.69 |
| SWI-X | D13 | 74,607 | 1.71 |
| SWI-Y | D16 | 29,752 | 0.68 |
| SWI-Z | D14 | 7,080 | 0.16 |
| SWI-AA | D15 | 35,412 | 0.81 |
| SWI-AC | D15 | 8,531 | 0.20 |
| SWI-AE | D15 | 43,876 | 1.01 |
| SWI-AF | D15 | 42,550 | 0.98 |
| SWI-AG | D15 | 40,786 | 0.94 |
| SWI-AH | D16 | 49,043 | 1.13 |
| SWI-AJ | D17 | 94,760 2.19 | |
| | | | |
| TOTAL | Ĭ | 969,471 | 22.25 |
| | | | |

| SURFACE WATER IMPACTS DUE TO DREDGE IMPROVEMENTS | | | |
|--|------|-----------|-----------|
| DESCRIPTION | ID | AREA (SF) | AREA (AC) |
| SWI-1B | SW-1 | 3,683 | 0.08 |
| SWI-2 | SW-2 | 16,084 | 0.37 |
| SWI-C | D3 | 14,390 | 0.33 |
| SWI-G | D9 | 33,079 | 0.76 |
| SWI-P | D9 | 5,572 | 0.13 |
| SWI-Q | D10 | 932 | 0.02 |
| SWI-R | D13 | 41,912 | 0.96 |
| SWI-U | D13 | 16,809 | 0.38 |
| SWI-V | D13 | 8,435 | 0.19 |
| SWI-AB | D15 | 6,403 | 0.15 |
| SWI-AD | D15 | 6,668 | 0.15 |
| SWI-AI | D16 | 21,344 | 0.49 |
| SWI-AK | D17 | 17,580 | 0.41 |
| SWI-AL | D16 | 2,742 | 0.06 |
| | | | |
| TOTAL | | 195,633 | 4.48 |

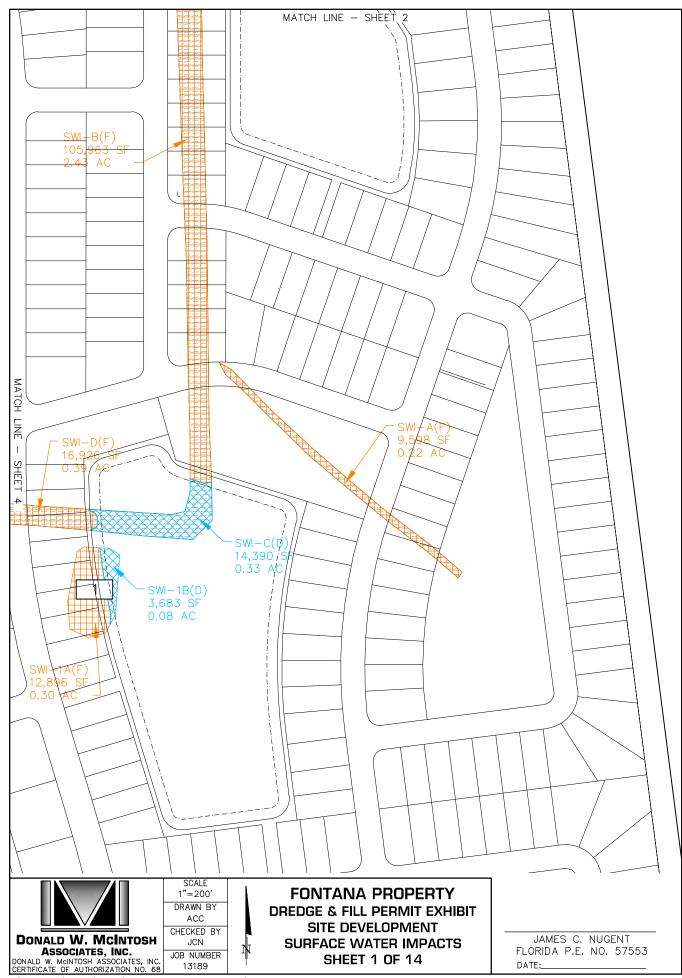
| 4 | 6/17/21 | REVISED PER SF | WMD COMMENTS | | |
|-----|---------|----------------|----------------|-----------|--|
| 3 | 2/22/21 | REVISED D16 IM | PACTS | | |
| 2 | 11/5/18 | REVISED PER CO | DUNTY COMMENTS | 5 | |
| 1 | 6/28/18 | REVISED PER SF | WMD COMMENTS | | |
| NO. | DATE | | | REVISIONS | |
| | | | 0.0.44.5 | | |

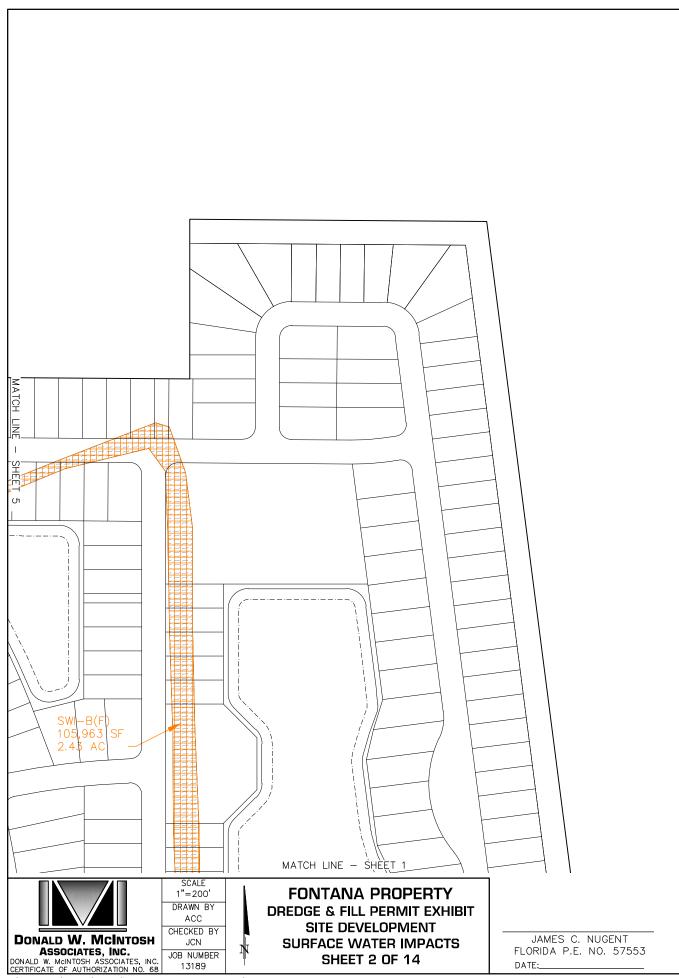


SCALE NTS DRAWN BY ACC CHECKED BY JCN JOB NUMBER 13189

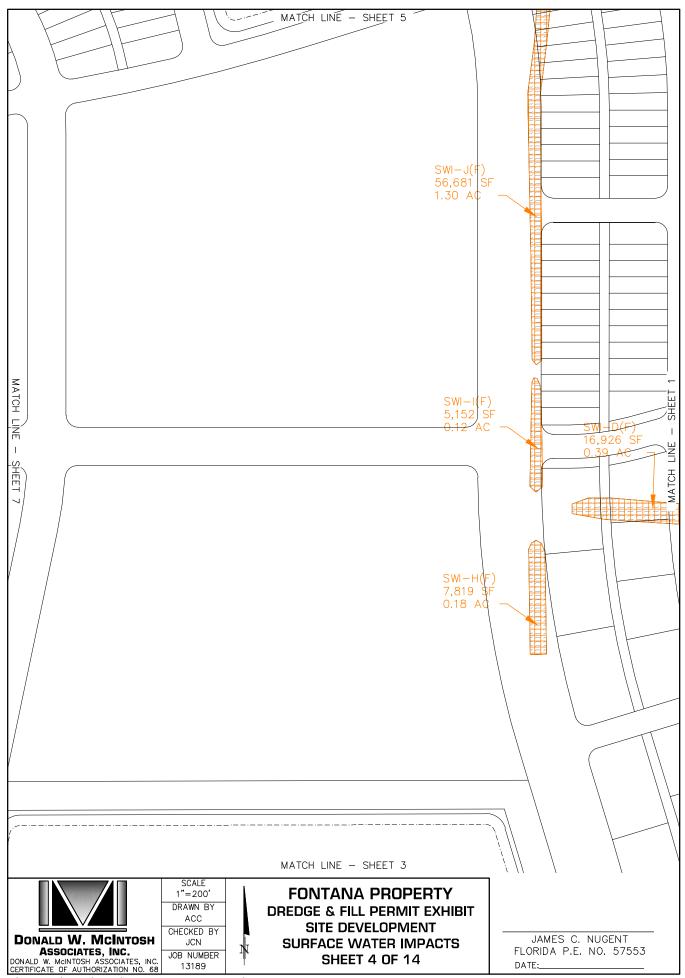
FONTANA PROPERTY
DREDGE & FILL PERMIT EXHIBIT
SITE DEVELOPMENT
SURFACE WATER IMPACTS
TABLES

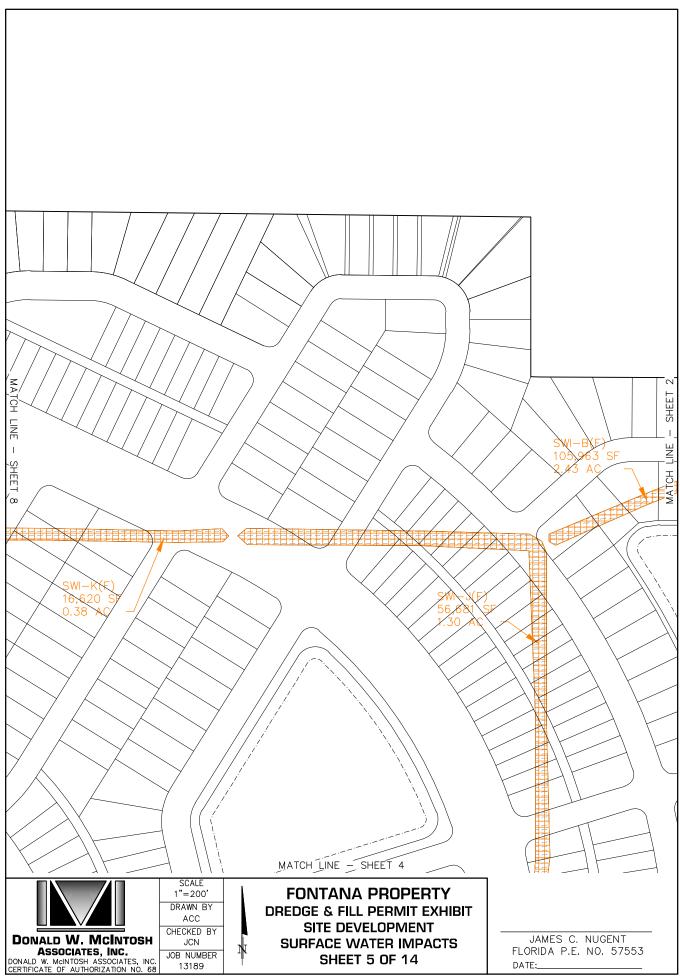
JAMES C. NUGENT FLORIDA P.E. NO. 57553 DATE:_____

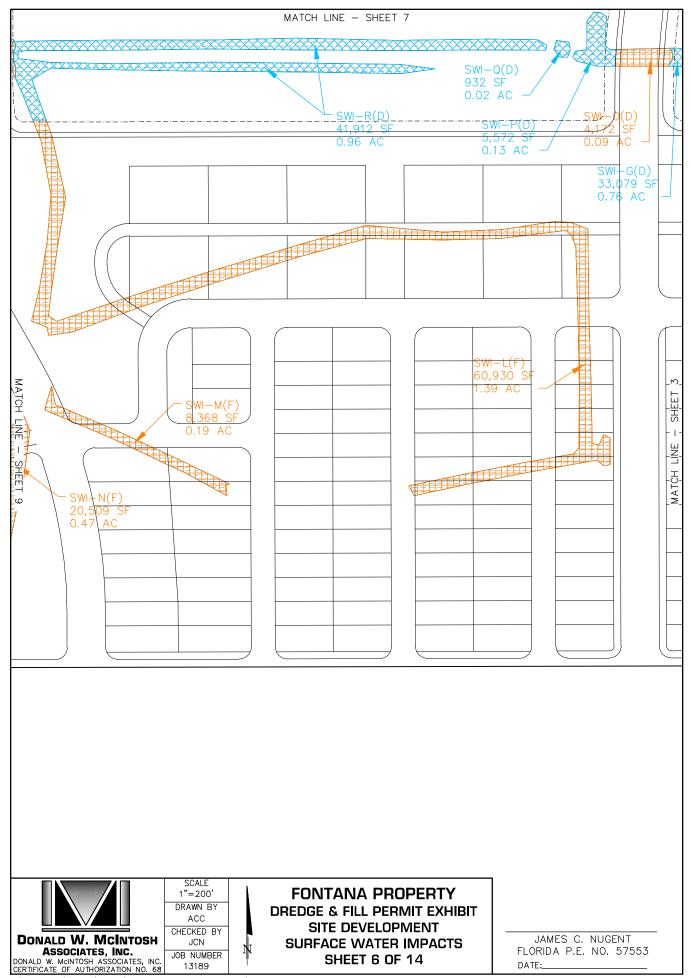


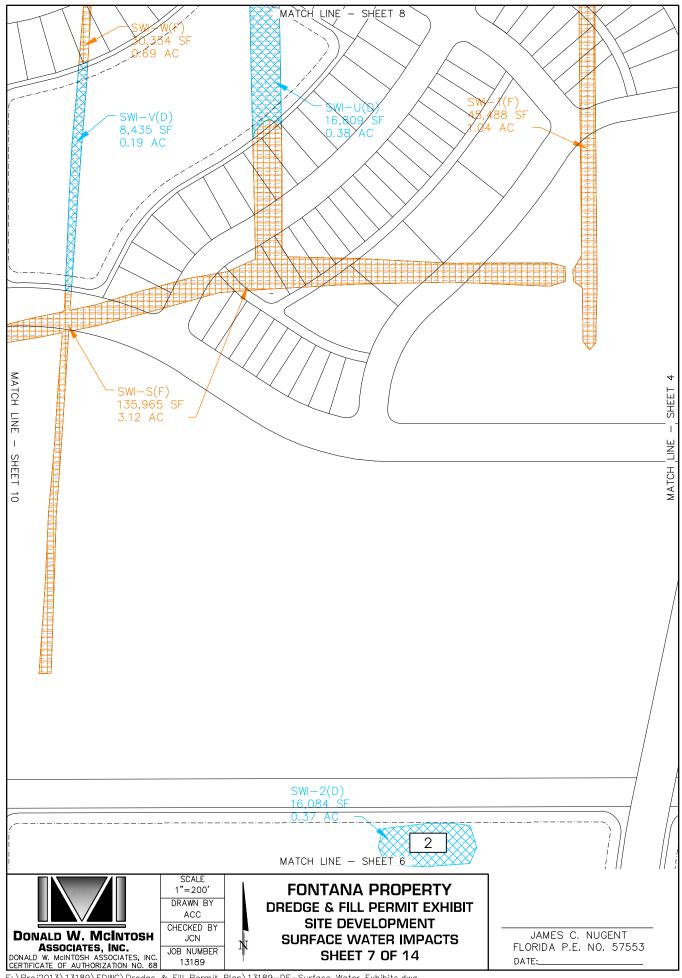




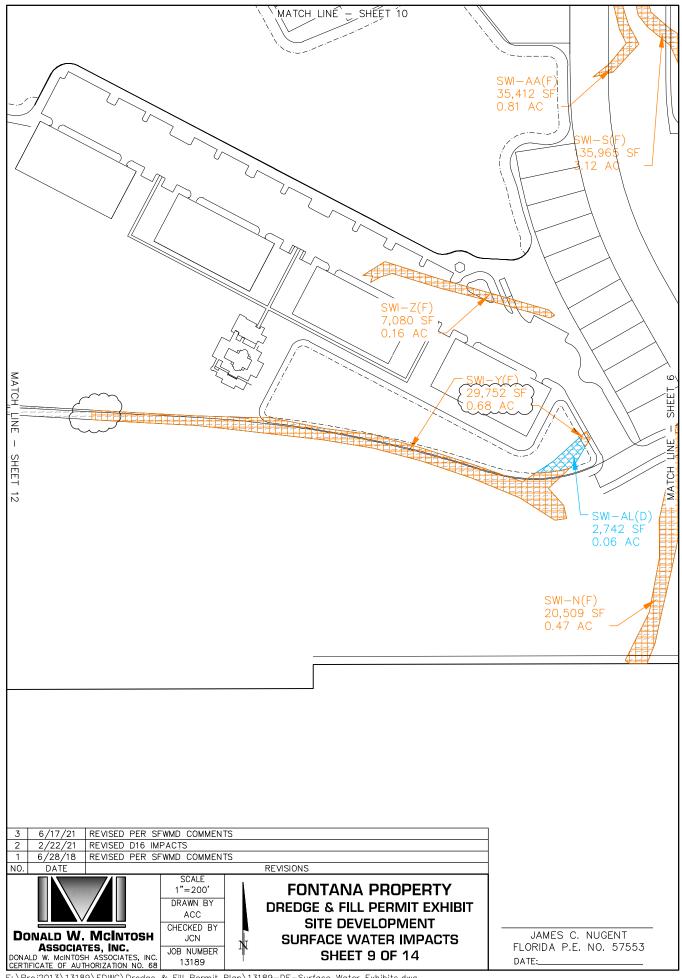


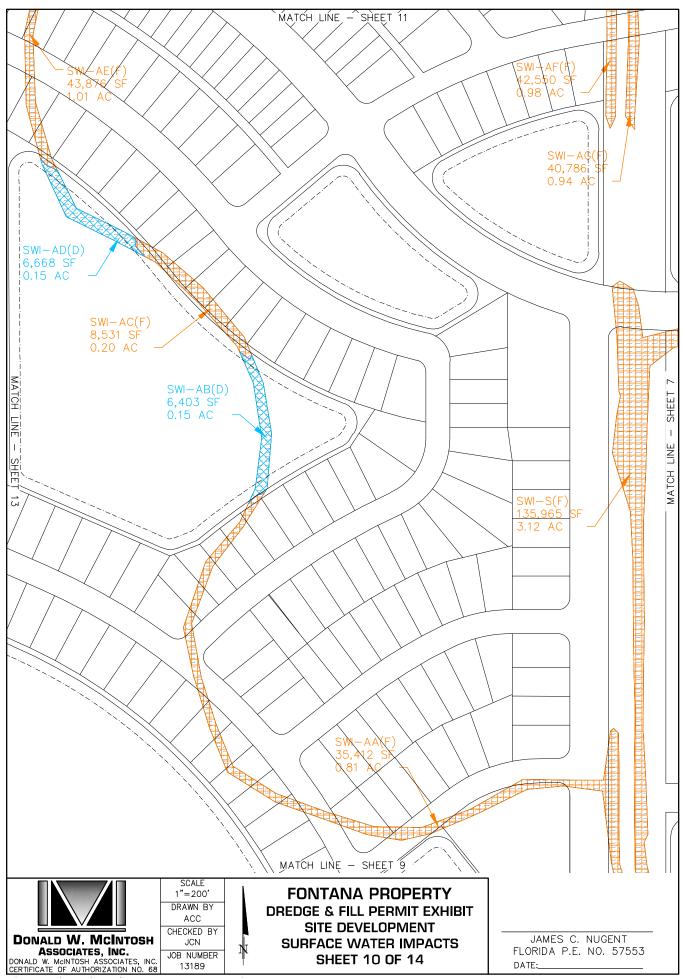


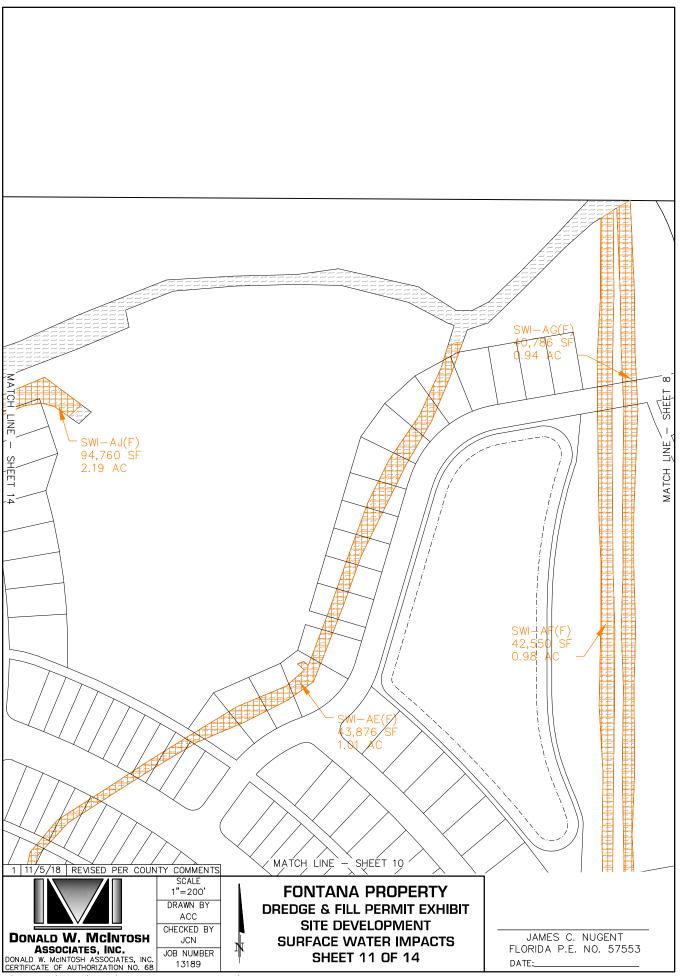


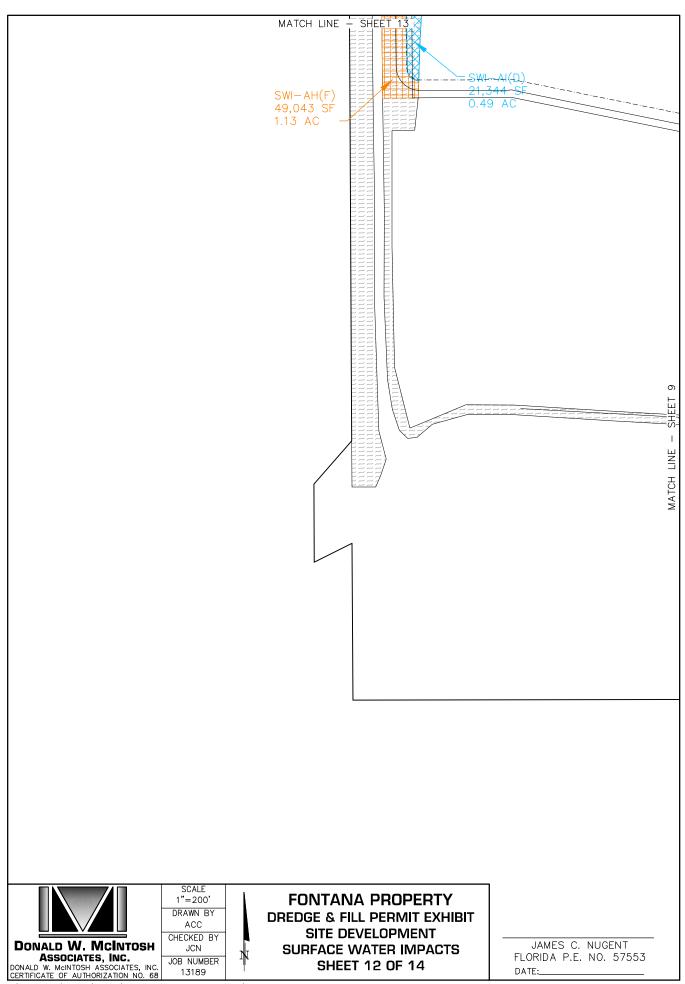


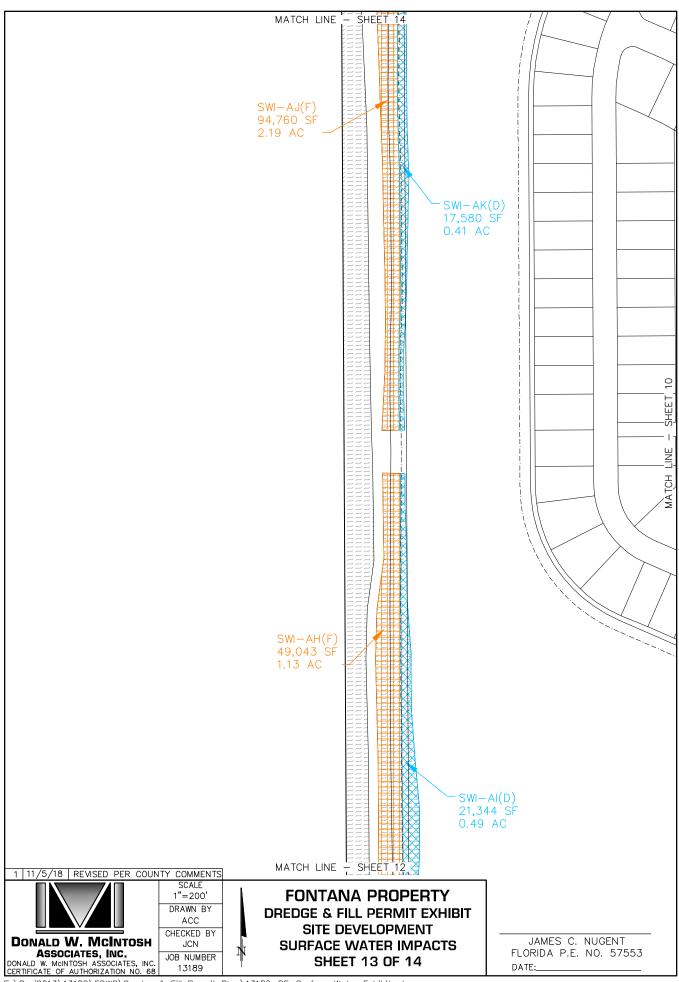


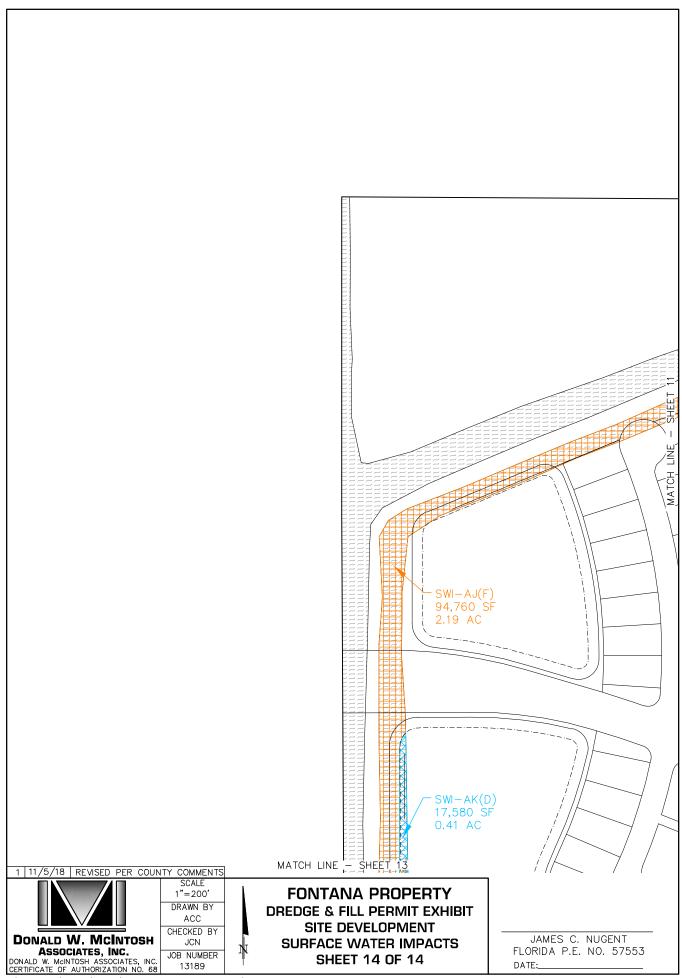


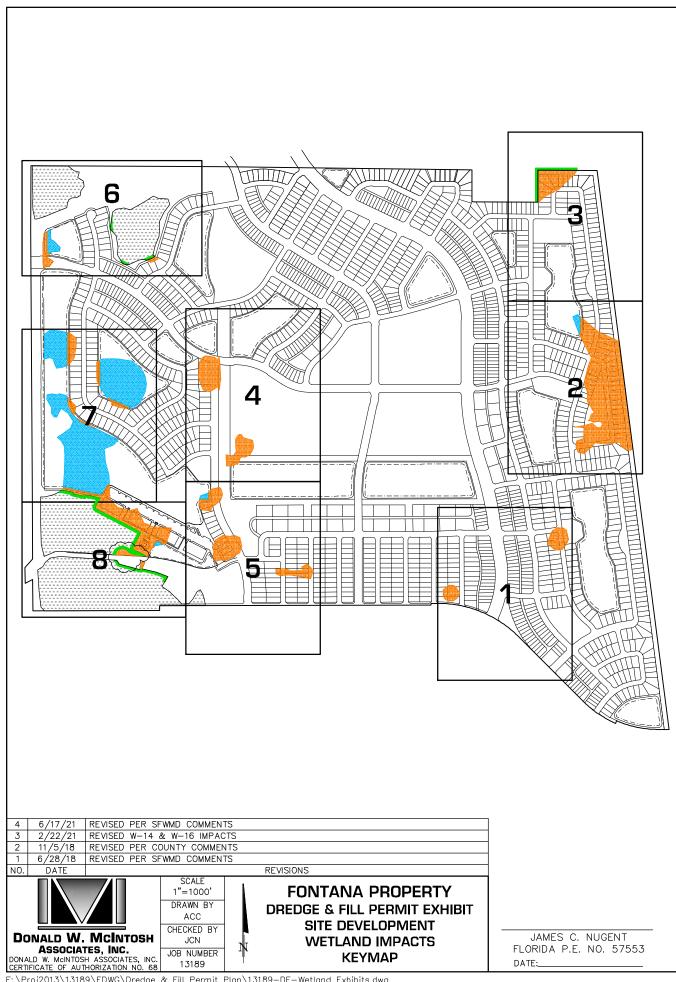








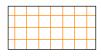




LEGEND

14 EXISTING WETLAND NUMBER

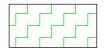
EXISTING WETLANDS



FILL IMPACTS TO WETLANDS



DREDGE IMPACTS TO WETLANDS



SECONDARY WETLAND IMPACTS

LABELS

WI = WETLAND IMPACT

WS = SECONDARY WETLAND IMPACT

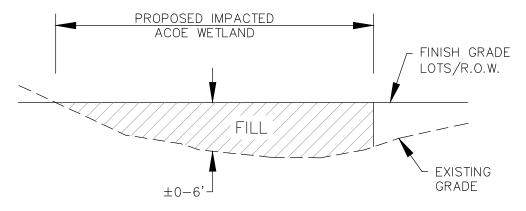
(F) = IMPACTS DUE TO FILL IMPROVEMENTS

(D) = IMPACTS DUE TO DREDGE IMPROVEMENT

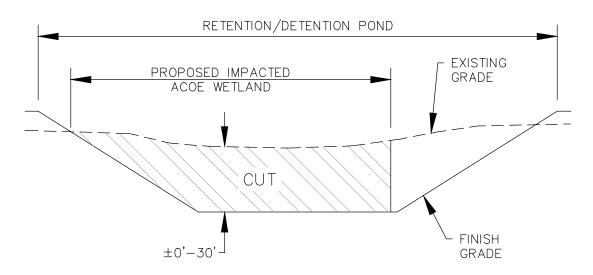


FONTANA PROPERTY
DREDGE & FILL PERMIT EXHIBIT
SITE DEVELOPMENT
WETLAND IMPACTS
LEGEND

JAMES C. NUGENT FLORIDA P.E. NO. 57553



TYPICAL SECTION — FILL IMPACT PROPOSED IMPACTED ACOE WETLAND



TYPICAL SECTION — CUT IMPACT PROPOSED IMPACTED ACOE WETLAND



SCALE
NTS
DRAWN BY
ACC
CHECKED BY
JCN
JOB NUMBER
13189

FONTANA PROPERTY
DREDGE & FILL PERMIT EXHIBIT
SITE DEVELOPMENT
WETLAND IMPACTS
SECTIONS

JAMES C. NUGENT FLORIDA P.E. NO. 57553 DATE:

| WETLAND IMPACTS DUE TO FILL IMPROVEMENTS | | |
|---|-----------|-----------|
| DESCRIPTION | AREA (SF) | AREA (AC) |
| WI-1 | 21,428 | 0.49 |
| WI-2 | 37,298 | 0.86 |
| WI-3A | 488,744 | 11.21 |
| WI-4A | 76,207 | 1.75 |
| WI-5 | 47,824 | 1.10 |
| WI-6 | 72,501 | 1.66 |
| WI-7A | 33,508 | 0.77 |
| WI-8 | 63,330 | 1.45 |
| WI-9 | 29,826 | 0.68 |
| WI-10A | 19,052 | 0.44 |
| WI-11A | 3,265 | 0.07 |
| WI-11B | 108 | 0.01 |
| WI-12A | 23,531 | 0.54 |
| WI-13A | 7,111 | 0.17 |
| WI-13B | 7,549 | 0.17 |
| WI-14A | 7,717 | 0.18 |
| WI-14B | 1,061 | 0.02 |
| WI-14D | 175,246 | 4.03 |
| WI-14F | 9,727 | 0.22 |
| WI-16A | 1,943 | 0.05 |
| WI-16B | 385 | 0.009 |
| | | |
| TOTAL | 1,127,361 | 25.88 |

| WETLAND IMPACTS DUE TO DREDGE IMPROVEMENTS | | | |
|--|-----------|-----------|--|
| DESCRIPTION | AREA (SF) | AREA (AC) | |
| WI-3B | 9,767 | 0.22 | |
| WI-7B | 5,258 | 0.12 | |
| WI-10B | 17,503 | 0.40 | |
| WI-12B | 80,274 | 1.84 | |
| WI-13C | 195,639 | 4.49 | |
| WI-14C | 357,250 | 8.20 | |
| WI-14E | 1,838 | 0.04 | |
| | · | | |
| TOTAL | 667,529 | 15.31 | |
| WI-14E | 1,838 | 0.04 | |

| | PRESERVED WETLANDS | | | |
|--------|--------------------|-----------|-----------|-------|
| | DESCRIPTION | AREA (SF) | AREA (AC) | |
| | 11 | 278,539 | 6.39 | |
| | 14 | 498,291 | 11.44 | D |
| , | 15 | 222,709 | 5.12 | |
| \ \ | 16 | 684,660 | 15.72 | |
| > | | | | |
| > | TOTAL | 1,684,199 | 38.66 | \ |

| SECONDARY WETLAND IMPACTS | | |
|---------------------------|-----------|-----------|
| DESCRIPTION | AREA (SF) | AREA (AC) |
| WS-4B | 19,099 | 0.44 |
| WS-11C | 2,583 | 0.06 |
| WS-11D | 1,860 | 0.04 |
| WS-11E | 2,197 | 0.05 |
| WS-14E | 41,599 | 0.95 |
| WS-16C | 15,736 | 0.36 |
| | | |
| TOTAL | 83,074 | 1.90 |

| 4 | 6/17/21 | REVISED PER SFWMD COMMENTS |
|-----|---------|-----------------------------|
| 3 | 2/22/21 | REVISED W-14 & W-16 IMPACTS |
| 2 | 11/5/18 | REVISED PER COUNTY COMMENTS |
| 1 | 6/28/18 | REVISED PER SFWMD COMMENTS |
| NO. | DATE | REVISIONS |



SCALE NTS DRAWN BY ACC CHECKED BY JCN JOB NUMBER 13189

FONTANA PROPERTY
DREDGE & FILL PERMIT EXHIBIT
SITE DEVELOPMENT
WETLAND IMPACTS
TABLES

JAMES C. NUGENT FLORIDA P.E. NO. 57553 DATE:_____



