



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, GALVESTON DISTRICT
2000 FORT POINT ROAD
GALVESTON, TEXAS 77550

CESWG-RD-P

April 28, 2025

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Pre-2015 Regulatory Regime
Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322
(2023),¹ SWG-2022-00752, MFR 1 of 1.²

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.³ AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.⁴ For the purposes of this AJD, we have relied on section 10 of the Rivers and Harbors Act of 1899 (RHA),⁵ the Clean Water Act (CWA) implementing regulations published by the Department of the Army in 1986 and amended in 1993 (references 2.a. and 2.b. respectively), the 2008 *Rapanos-Carabell* guidance (reference 2.c.), and other applicable guidance, relevant case law and longstanding practice, (collectively the pre-2015 regulatory regime), and the *Sackett* decision (reference 2.d.) in evaluating jurisdiction.

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. The features addressed in this AJD were evaluated consistent with the definition of "waters of the United States" found in the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. This AJD did not rely on the 2023 "Revised Definition of 'Waters of the United States,'" as

¹ While the Supreme Court's decision in *Sackett* had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² When documenting aquatic resources within the review area that are jurisdictional under the Clean Water Act (CWA), use an additional MFR and group the aquatic resources on each MFR based on the TNW, interstate water, or territorial seas that they are connected to. Be sure to provide an identifier to indicate when there are multiple MFRs associated with a single AJD request (i.e., number them 1, 2, 3, etc.).

³ 33 CFR 331.2.

⁴ Regulatory Guidance Letter 05-02.

⁵ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

amended on 8 September 2023 (Amended 2023 Rule) because, as of the date of this decision, the Amended 2023 Rule is not applicable in Texas due to litigation.

1. SUMMARY OF CONCLUSIONS.

- a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).

| Feature Name | Latitude | Longitude | Linear Feet | Acreage | Jurisdictional |
|--------------|-----------|------------|-------------|---------|----------------|
| DD-1 | 30.019972 | -95.723628 | n/a | 0.07 | No |
| DD-2 | 30.014091 | -95.704137 | n/a | 0.04 | No |
| DD-3 | 30.016733 | -95.699705 | n/a | 0.02 | No |
| EG-1 | 30.020909 | -95.719900 | n/a | <0.01 | No |
| ES-1 | 30.015713 | -95.704587 | 958 | n/a | No |
| ES-2 | 30.016874 | -95.702980 | 175 | n/a | No |
| ESW-1 | 30.021652 | -95.724268 | n/a | 0.01 | No |
| ESW-2 | 30.017072 | -95.702862 | n/a | <0.01 | No |
| ESW-3 | 30.018960 | -95.711859 | n/a | 0.01 | No |
| ESW-4 | 30.018220 | -95.709963 | n/a | <0.01 | No |
| ESW-5 | 30.017625 | -95.705786 | n/a | 0.08 | No |
| ESW-6 | 30.021508 | -95.718525 | n/a | 0.01 | No |
| ESW-7 | 30.020898 | -95.718373 | n/a | 0.01 | No |
| ESW-8 | 30.021273 | -95.717898 | n/a | <0.01 | No |
| ESW-9 | 30.021303 | -95.717824 | n/a | <0.01 | No |
| ESW-10 | 30.020152 | -95.717245 | n/a | <0.01 | No |
| ESW-11 | 30.019287 | -95.716948 | n/a | 0.01 | No |
| ESW-12 | 30.018521 | -95.713657 | n/a | <0.01 | No |
| ESW-13 | 30.018465 | -95.712928 | n/a | <0.01 | No |
| ESW-14 | 30.018440 | -95.713863 | n/a | <0.01 | No |
| ESW-15 | 30.018449 | -95.711175 | n/a | <0.01 | No |
| ESW-16 | 30.015482 | -95.705238 | n/a | 0.02 | No |
| ESW-17 | 30.016380 | -95.702753 | n/a | 0.01 | No |
| ESW-18 | 30.015419 | -95.700463 | n/a | <0.01 | No |

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| Feature Name | Latitude | Longitude | Linear Feet | Acreage | Jurisdictional |
|-------------------|-----------|------------|-------------|---------|----------------|
| ESW-19 | 30.016105 | -95.700344 | n/a | 0.01 | No |
| ESW-20 | 30.016006 | -95.699905 | n/a | 0.01 | No |
| ESW-21 | 30.015361 | -95.699683 | n/a | <0.01 | No |
| ESW-22 | 30.015412 | -95.699482 | n/a | <0.01 | No |
| ESW-23 | 30.014848 | -95.699615 | n/a | <0.01 | No |
| ESW-24 | 30.014601 | -95.699519 | n/a | <0.01 | No |
| ESW-25 | 30.015028 | -95.698666 | n/a | <0.01 | No |
| ESW-26 | 30.015204 | -95.696961 | n/a | 0.06 | No |
| ESW-27 | 30.015383 | -95.693792 | n/a | <0.01 | No |
| ESW-28 | 30.015179 | -95.693877 | n/a | <0.01 | No |
| ESW-29 | 30.015231 | -95.692640 | n/a | 0.01 | No |
| ESW-30 | 30.015610 | -95.694182 | n/a | 0.01 | No |
| Detention Basin 1 | 30.019762 | -95.724263 | n/a | 7.16 | No |
| EW-2 | 30.021398 | -95.724354 | n/a | 0.09 | No |
| EW-3 | 30.020562 | -95.720319 | n/a | 0.31 | No |
| EW-4 | 30.018966 | -95.718002 | n/a | 0.02 | No |
| EW-5 | 30.019848 | -95.714487 | n/a | 0.42 | No |
| EW-6 | 30.019101 | -95.714394 | n/a | 0.29 | No |
| EW-7 | 30.019698 | -95.710981 | n/a | 0.45 | No |
| Detention Basin 2 | 30.017481 | -95.709980 | n/a | 3.57 | No |
| EW-9 | 30.021054 | -95.714286 | n/a | 0.01 | No |
| Detention Basin 3 | 30.016757 | -95.698498 | n/a | 5.92 | No |
| EW-11 | 30.020051 | -95.723304 | n/a | 0.02 | No |
| EW-12 | 30.019000 | -95.704492 | n/a | 1.21 | No |
| EW-13 | 30.019158 | -95.709238 | n/a | 0.30 | No |
| EW-14 | 30.019473 | -95.722840 | n/a | 0.12 | No |
| EW-15 | 30.019431 | -95.722013 | n/a | 0.12 | No |
| FW-1 | 30.021865 | -95.718809 | n/a | 0.24 | No |
| FW-2 | 30.018732 | -95.718402 | n/a | 0.01 | No |
| FW-3 | 30.019659 | -95.709632 | n/a | 0.16 | No |
| FW-4 | 30.016718 | -95.708669 | n/a | 0.36 | No |

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| Feature Name | Latitude | Longitude | Linear Feet | Acreage | Jurisdictional |
|-----------------------------------|-----------|------------|-------------|---------|----------------|
| FW-5 | 30.020434 | -95.720961 | n/a | 0.09 | No |
| L100-00-00 (Little Cypress Creek) | 30.018014 | -95.708759 | 15,203 | n/a | Yes |
| L109-00-00 | 30.022118 | -95.721951 | 734 | n/a | No |
| OW-1 | 30.021778 | -95.721860 | n/a | 0.45 | No |
| OW-2 | 30.019151 | -95.717508 | n/a | 0.06 | No |
| OW-3 | 30.019725 | -95.714318 | n/a | 0.22 | No |
| OW-4 | 30.019172 | -95.714391 | n/a | 0.16 | No |
| OW-5 | 30.020637 | -95.709018 | n/a | 0.39 | No |
| OW-6 | 30.018524 | -95.708377 | n/a | 0.91 | No |
| OW-7 | 30.015633 | -95.707006 | n/a | 0.06 | No |
| OW-8 | 30.015036 | -95.702738 | n/a | 1.12 | No |
| OW-9 | 30.015243 | -95.696572 | n/a | 0.01 | No |
| OW-10 | 30.015389 | -95.696398 | n/a | 0.02 | No |
| OW-11 | 30.014961 | -95.694210 | n/a | 0.13 | No |
| OW-12 | 30.014531 | -95.692547 | n/a | 0.21 | No |
| OW-13 | 30.019631 | -95.722774 | n/a | 1.34 | No |
| OW-14 | 30.019429 | -95.722012 | n/a | 0.43 | No |
| SSW-1 | 30.017064 | -95.708875 | n/a | 0.17 | No |

2. REFERENCES.

- a. Final Rule for Regulatory Programs of the Corps of Engineers, 51 FR 41206 (November 13, 1986).
- b. Clean Water Act Regulatory Programs, 58 FR 45008 (25 August 1993).
- c. U.S. EPA & U.S. Army Corps of Engineers, Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States & Carabell v. United States* (December 2, 2008)
- d. *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023)

- e. 2008 Rapanos guidance: “In addition, ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water are generally not waters of the United States because they are not tributaries, or they do not have a significant nexus to downstream traditional navigable waters.”
 - f. 12 March 2025 Memorandum to the Field Between the U.S. Department of Army, U.S. Army Corps of Engineers, and the U.S. Environmental Protection Agency Concerning the Proper Implementation of “Continuous Surface Connection” Under the Definition of “Waters of the United States” Under the Clean Water Act.
3. REVIEW AREA. The review area is approximately 272 acres located between Mueschke Road and Cypress Rosehill Road, Cypress, Harris County, Texas Latitude 30.018445° North, Longitude -95.714330° West.
4. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), INTERSTATE WATER, OR THE TERRITORIAL SEAS TO WHICH THE AQUATIC RESOURCE IS CONNECTED. Cypress Creek⁶
5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, INTERSTATE WATER, OR THE TERRITORIAL SEAS. Little Cypress Creek connects to Cypress Creek which turns into a TNW approximately 10 miles from the confluence of Little Cypress Creek and Cypress Creek.
6. SECTION 10 JURISDICTIONAL WATERS⁷: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.⁸ N/A

⁶ This MFR should not be used to complete a new stand-alone TNW determination. A stand-alone TNW determination for a water that is not subject to Section 9 or 10 of the Rivers and Harbors Act of 1899 (RHA) is completed independently of a request for an AJD. A stand-alone TNW determination is conducted for a specific segment of river or stream or other type of waterbody, such as a lake, where upstream or downstream limits or lake borders are established.

⁷ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as “navigable in law” even though it is not presently used for commerce or is presently incapable of such use because of changed conditions or the presence of obstructions.

⁸ This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the pre-2015 regulatory regime and consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the pre-2015 regulatory regime. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.
 - a. TNWs (a)(1): N/A
 - b. Interstate Waters (a)(2): N/A
 - c. Other Waters (a)(3): N/A
 - d. Impoundments (a)(4): N/A
 - e. Tributaries (a)(5): L100-00-00 (Little Cypress Creek) is a second order stream at the project site which flows approximately seven miles from the project site into Cypress Creek which becomes a Traditional Navigable Water approximately ten miles from the confluence. Little Cypress Creek flows year-round. Photographs from the consultant report and Google Earth Street Level views show that Little Cypress Creek has a bed and bank and exhibits an ordinary high-water mark (OHWM). Based on photographic evidence and the 1920 and 1962 USGS topographic maps, Little Cypress Creek is a relatively permanent water connected to Cypress Creek, a Traditional Navigable Water; therefore, Little Cypress Creek meets the definition of a tributary as defined in the pre-2015 regime post *Sackett* guidance and is a water of the United States.
 - f. The territorial seas (a)(6): N/A
 - g. Adjacent wetlands (a)(7): N/A
8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES
 - a. Describe aquatic resources and other features within the review area identified as "generally non-jurisdictional" in the preamble to the 1986 regulations (referred

to as “preamble waters”).⁹ Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA as a preamble water.

Detention Basin 1, Detention Basin 2, and Detention Basin 3 were created by excavating uplands for the purposes of floodwater retention during extreme weather events. Detention Basin 1, Detention Basin 2, and Detention Basin 3 are not open water features; therefore, they are not relatively permanent. Detention Basin 1, Detention Basin 2, and Detention Basin 3 do not meet the definition of adjacent as defined in the pre-2015 regime post Sackett guidance and are not waters of the United States.

OW-1, OW-2, OW-3, OW-4, OW-5, OW-6, OW-7, OW-8, OW-9, OW-10, OW-13, and OW-14 are open water features which were constructed from uplands for the purpose of watering stock; therefore, under the preamble these features are generally not considered waters of the United States.

- b. Describe aquatic resources and features within the review area identified as “generally not jurisdictional” in the *Rapanos* guidance. Include size of the aquatic resource or feature within the review area and describe how it was determined to be non-jurisdictional under the CWA based on the criteria listed in the guidance.

The project area has three ditches, DD-1, DD-2, and DD-3, which were excavated from uplands. The ditches exhibit low volume, infrequent, and/or short duration flow indicating that the ditches primary source of water is runoff from rainfall. These ditches do not appear on the Rose Hill, Texas 1920, 1962, and 2019 topographic maps. DD-1, DD-2, and DD-3 are not relatively permanent waters and do not meet the definition of a tributary as defined in the pre-2015 regime post Sackett guidance and are not waters of the United States.

The project area contains thirty drainage swales and one gully, ESW-1 through ESW-30 and EG-1, these features do not have a defined bed and bank or ordinary high-water mark (OHWM). The swales and gully exhibit low volume, infrequent, and/or short duration flow indicating that the swales primary source of water is runoff from rainfall. The drainage swales and gully are not relatively permanent waters as defined in the pre-2015 regime post Sackett guidance and are not waters of the United States.

ES-1, ES-2, and L109-00-00 were identified in the project area. These features appear on the Rose Hill, Texas 1920, 1962, and 2019 topographic maps.

⁹ 51 FR 41217, November 13, 1986.

Photographs from the consultant report show that these features have a bed and bank and an OHWM. These features were dry under normal circumstances which indicates that these features exhibit low volume, infrequent, and/or short duration flow indicating that these features primary source of water is runoff from rainfall. ES-1, ES-2, and L109-00-00 are not relatively permanent waters and do not meet the definition of a tributary as defined in the pre-2015 regime post Sackett guidance and are not waters of the United States.

- c. Describe aquatic resources and features identified within the review area as waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA. Include the size of the waste treatment system within the review area and describe how it was determined to be a waste treatment system. N/A
- d. Describe aquatic resources and features within the review area determined to be prior converted cropland in accordance with the 1993 regulations (reference 2.b.). Include the size of the aquatic resource or feature within the review area and describe how it was determined to be prior converted cropland. N/A
- e. Describe aquatic resources (i.e., lakes and ponds) within the review area, which do not have a nexus to interstate or foreign commerce, and prior to the January 2001 Supreme Court decision in “SWANCC,” would have been jurisdictional based solely on the “Migratory Bird Rule.” Include the size of the aquatic resource or feature, and how it was determined to be an “isolated water” in accordance with SWANCC.

Two open water features were identified, OW-11 and OW-12. The use, degradation, or destruction of OW-11 and OW-12 would not affect interstate or foreign commerce. OW-11 and OW-12 are not used for interstate or foreign travelers for recreational or other purposes, fish or shellfish are not taken and sold in interstate or foreign commerce and are not used for industrial purpose by industries in interstate commerce. OW-11 and OW-12 are not impoundments of a tributary and do not flow to a Traditional Navigable Water, therefore, OW-11 and OW-12 are not waters of the United States.

- f. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the pre-2015 regulatory regime consistent with the Supreme Court’s decision in *Sackett* (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).

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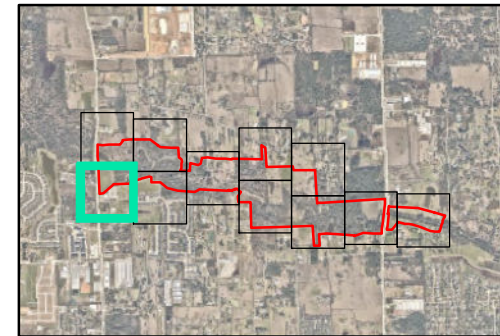
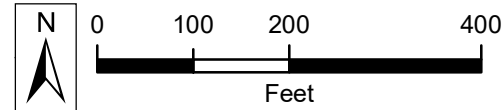
Based on our desk review, EW-2, EW-3, EW-4, EW-5, EW-6, EW-7, EW-9, EW-11, EW-12, EW-14, EW-15, FW-1, FW-2, FW-3, FW-4, FW-5, and SSW-1 do not directly abut and therefore have no continuous surface connection with the nearest TNW, Cypress Creek, which is seventeen miles east of the project area. EW-2, EW-3, EW-4, EW-5, EW-6, EW-7, EW-9, EW-11, EW-12, EW-14, EW-15, FW-1, FW-2, FW-3, FW-4, FW-5, and SSW-1 do not meet the definition of adjacent as defined in the pre-2015 regime post Sackett guidance and are not waters of the United States.

9. DATA SOURCES. List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.


- a. United States Geological Survey Topographic Quadrangle, Rose Hill, Texas 1920, 1962, and 2019
- b. Pre-USACE Verified Waters of the United States Delineation Report for Mueschke East Stormwater Detention Basin dated August 2022.

10. OTHER SUPPORTING INFORMATION.

11. NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR's structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.



Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Detention Basin
-  Drainage Ditch
-  Emergent Wetland
-  Open Water

Notes:

1. LAT: 30.0185°, LONG: -95.7241°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

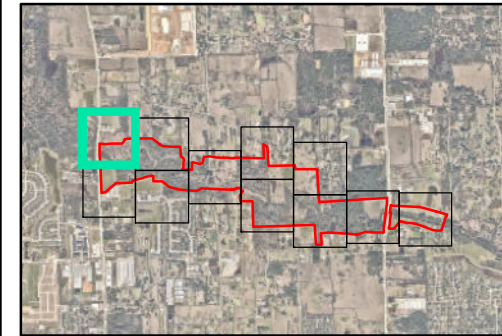
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.1





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Detention Basin
-  Drainage Ditch
-  Emergent Wetland
-  Open Water
-  Ephemeral Swale
-  Ephemeral Stream
-  Perennial Stream

Notes:

1. LAT: 30.0229°, LONG: -95.7240°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

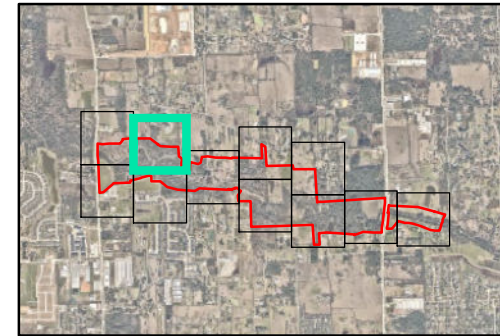
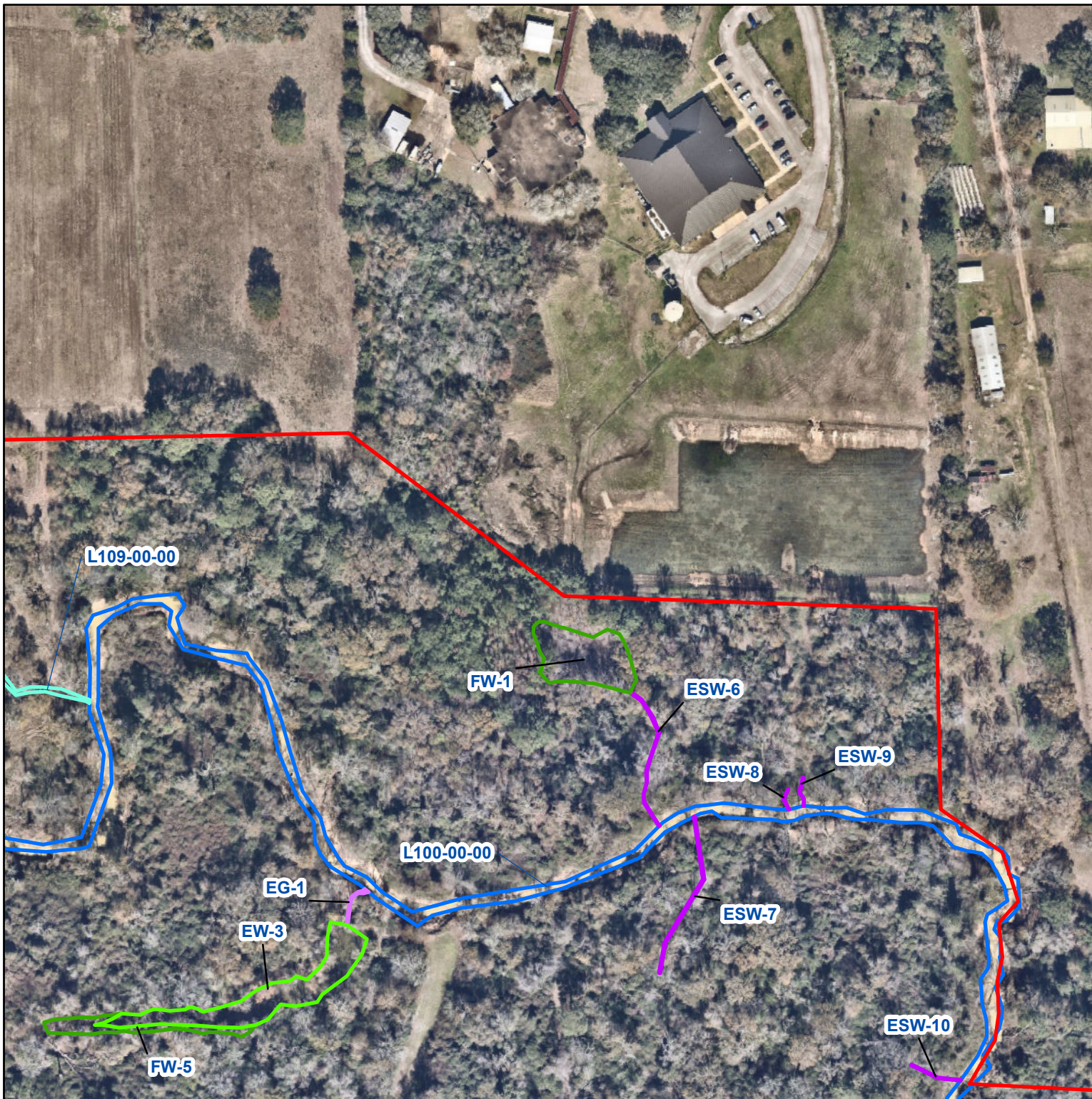
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.2





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Emergent Wetland
-  Forested Wetland
-  Ephemeral Gully
-  Ephemeral Swale
-  Ephemeral Stream
-  Perennial Stream

Notes:

1. LAT: 30.0223°, LONG: -95.7189°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

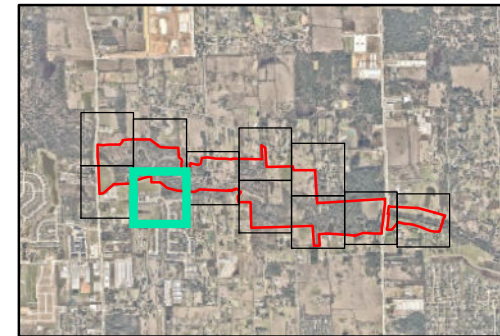
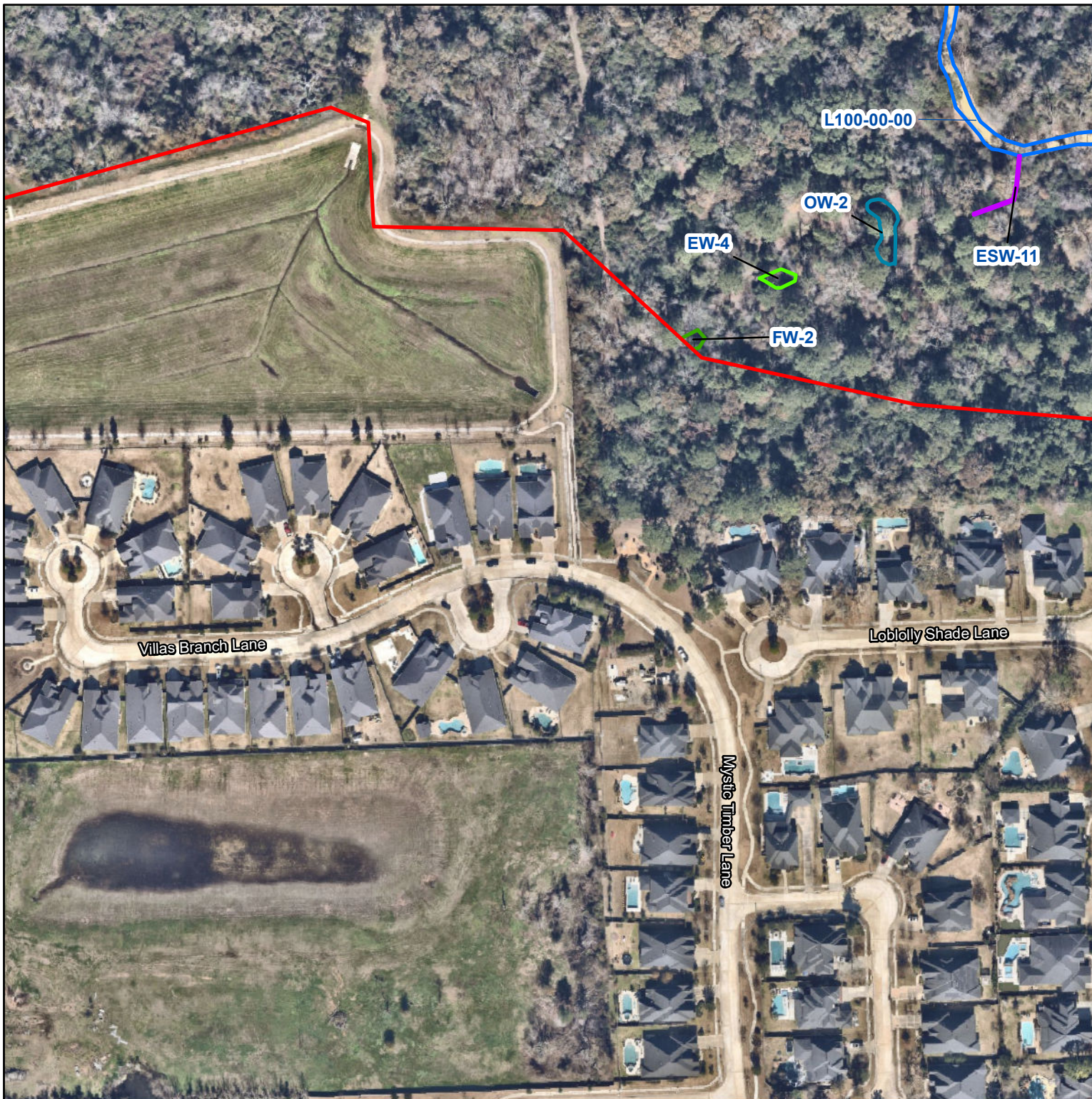
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.3





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Emergent Wetland
-  Forested Wetland
-  Open Water
-  Ephemeral Swale
-  Perennial Stream

Notes:

1. LAT: 30.0179°, LONG: -95.7191°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

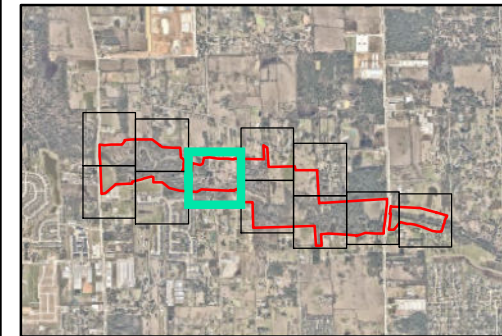
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.4





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Detention Basin
-  Emergent Wetland
-  Open Water
-  Ephemeral Swale
-  Perennial Stream

Notes:

1. LAT: 30.0194°, LONG: -95.7140°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

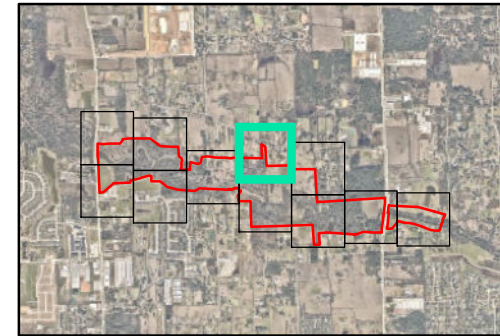
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.5





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

 Emergent Wetland

 Forested Wetland

 Open Water

Notes:

1. LAT: 30.0213°, LONG: -95.7089°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

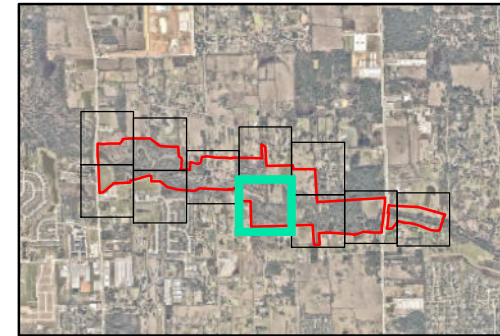
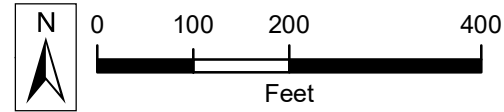
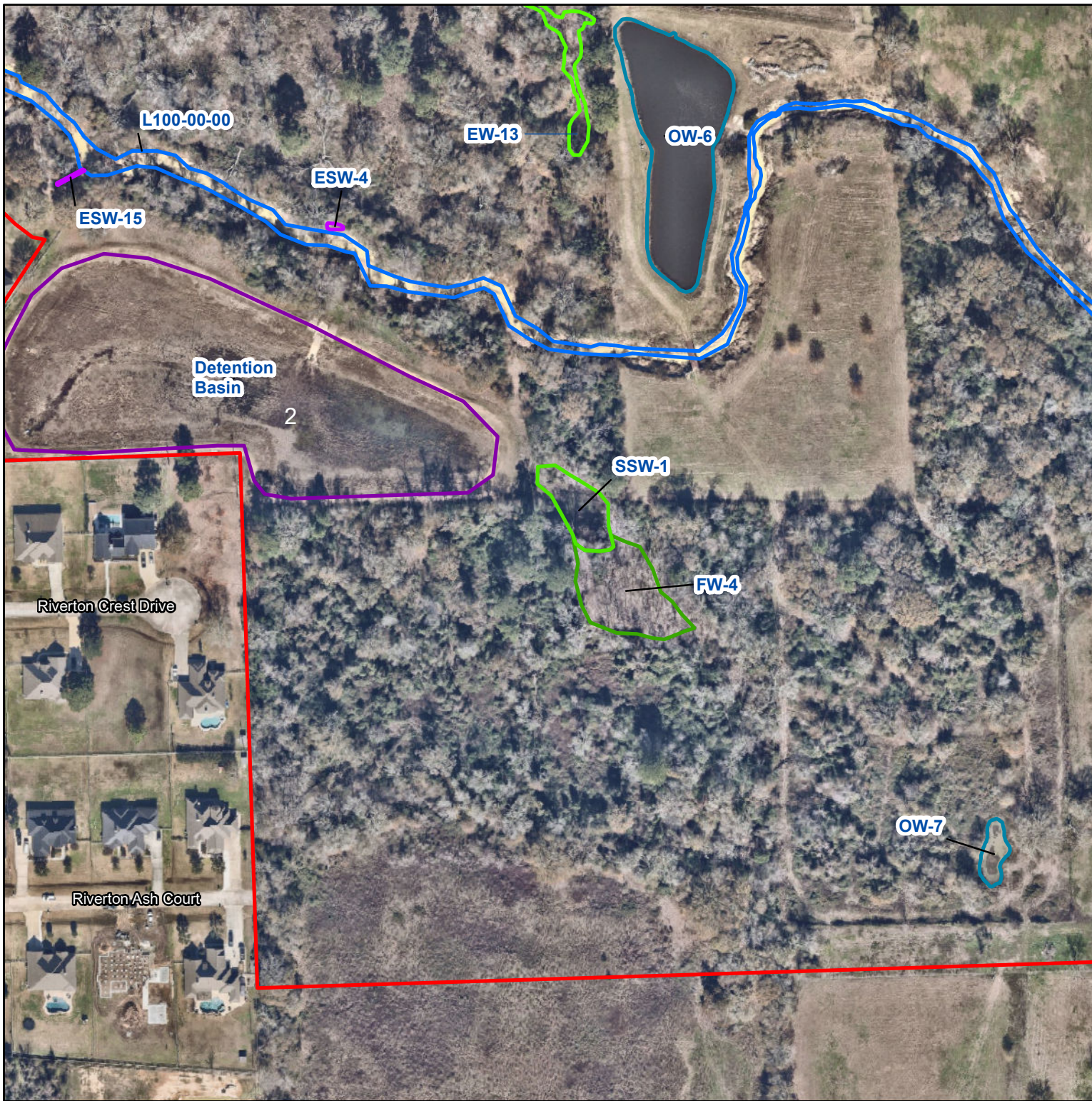
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.6





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Detention Basin
-  Emergent Wetland
-  Scrub-Shrub Wetland
-  Forested Wetland
-  Open Water
-  Ephemeral Swale
-  Perennial Stream

Notes:

1. LAT: 30.0169°, LONG: -95.7090°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

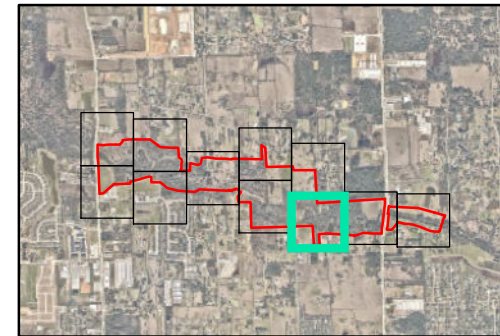
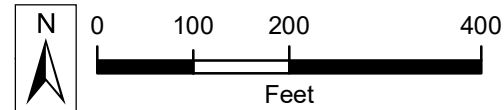
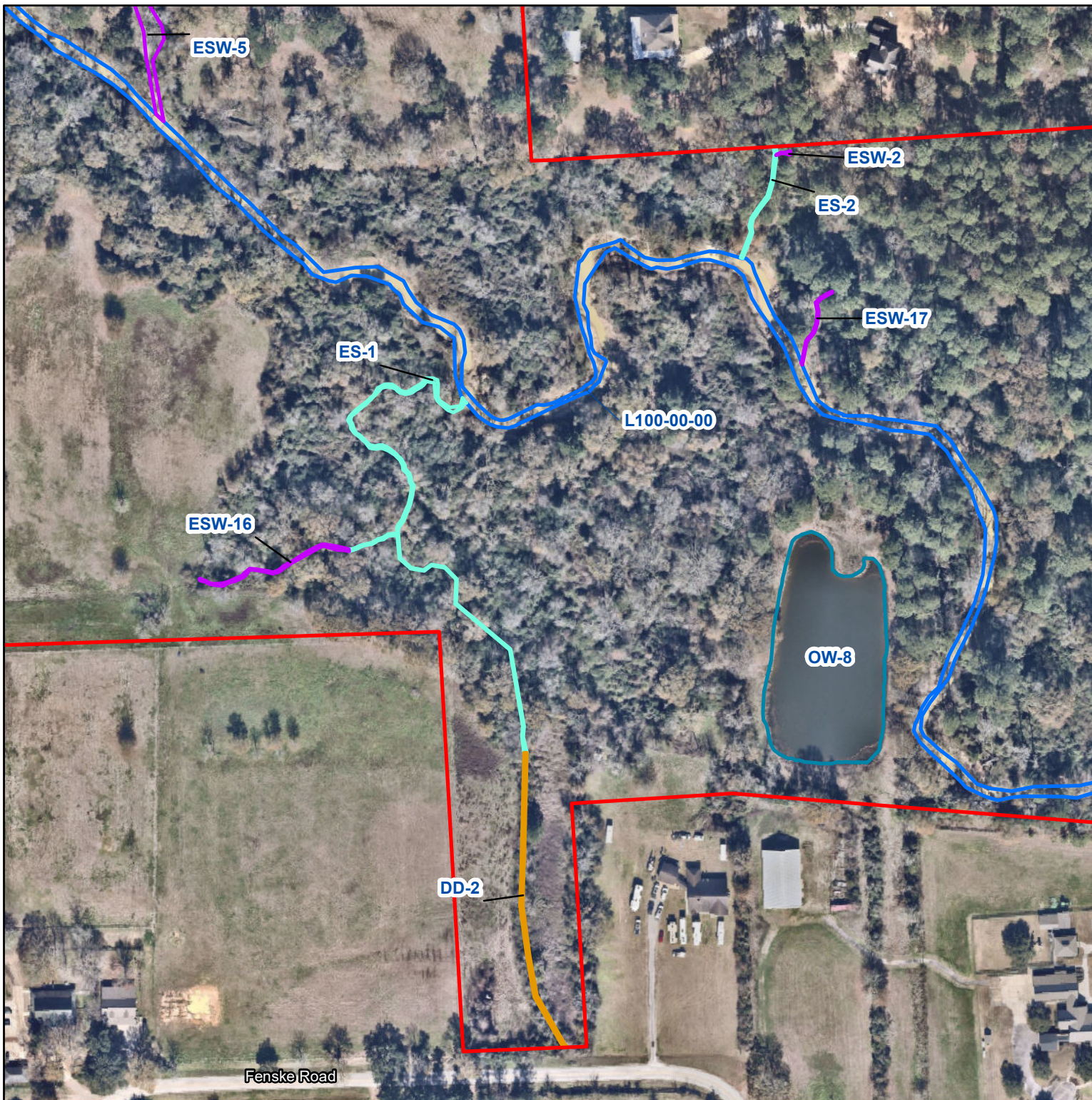
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.7







Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Drainage Ditch
-  Open Water
-  Ephemeral Swale
-  Ephemeral Stream
-  Perennial Stream

Notes:

1. LAT: 30.0155°, LONG: -95.7040°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

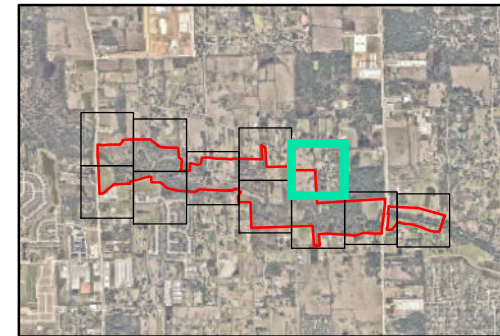
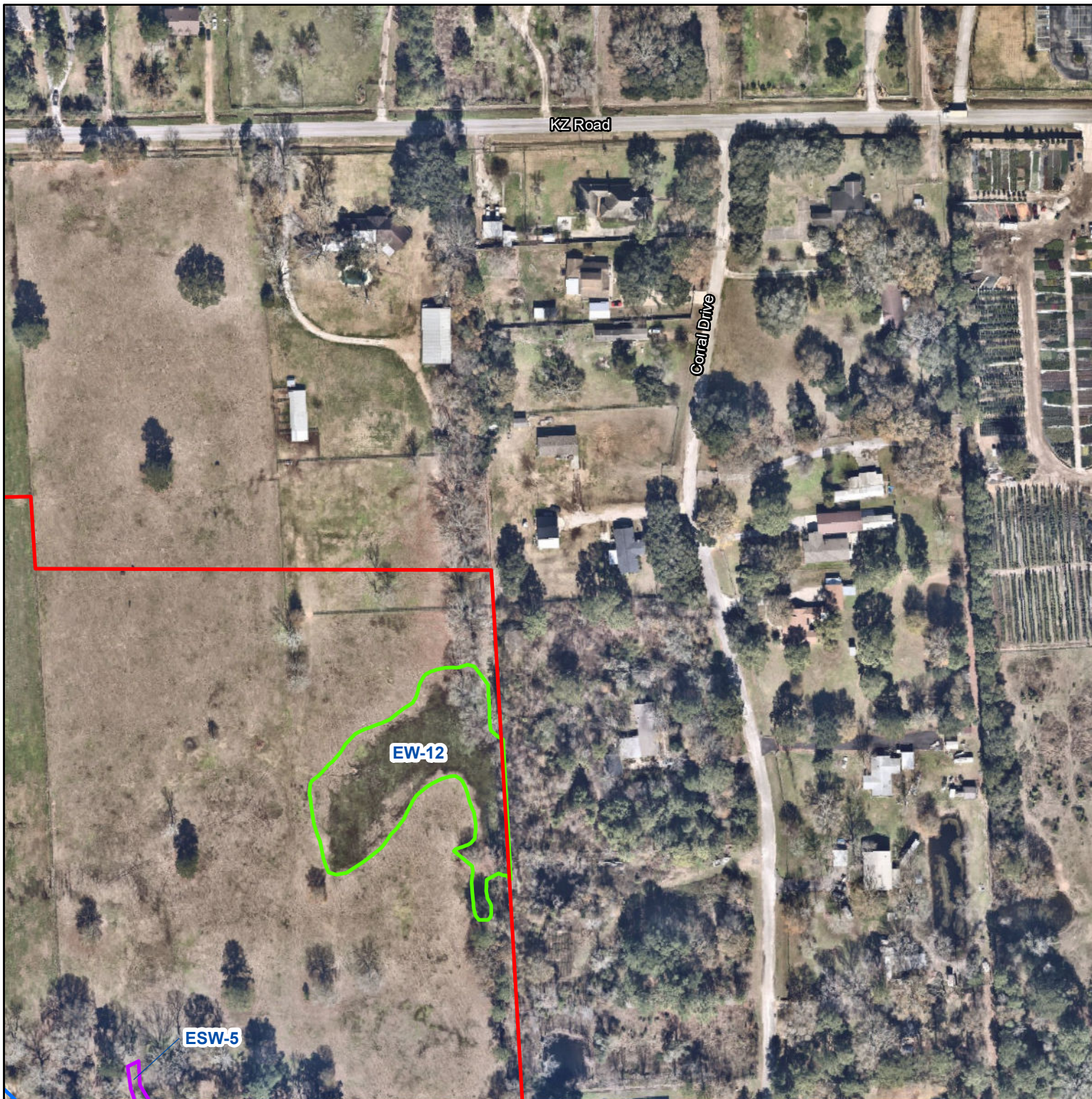
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.8







Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

 Emergent Wetland

 Ephemeral Swale

 Perennial Stream

Notes:

1. LAT: 30.0199°, LONG: -95.7038°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

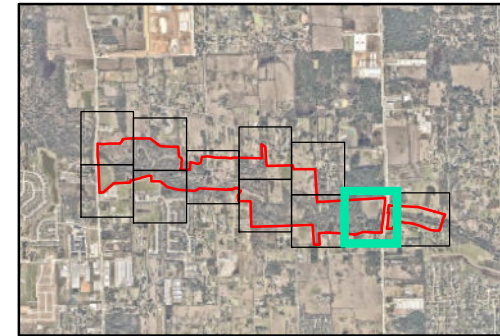
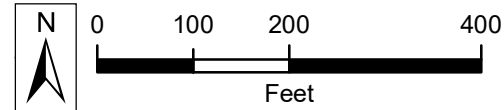
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.9





Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Detention Basin
-  Drainage Ditch
-  Open Water
-  Ephemeral Swale
-  Perennial Stream

Notes:

1. LAT: 30.0157°, LONG: -95.6989°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

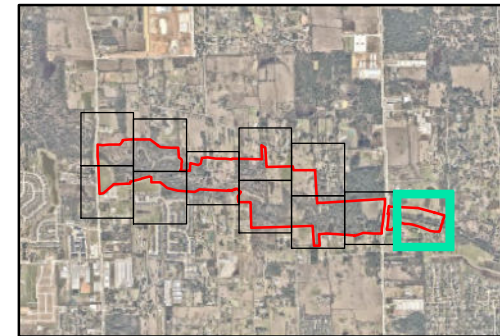
Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001


Aquatic Features Delineation Map

Figure 3.10








Legend

 L500-06-00-E001 Study Area

Aquatic Feature Type

-  Open Water
-  Ephemeral Swale
-  Perennial Stream

Notes:

1. LAT: 30.0154°, LONG: -95.6939°
2. NearMap WMS Server - 2024

Mueschke East Stormwater
Detention Basin (L500-06-00-E001)

Waters of the U.S. Report

Cypress, Harris County, Texas

Date: 4/25/2025 AVO: 38303.001

Aquatic Features Delineation Map

Figure 3.11

