Abundant Life Christian Center Waters of the U.S. Delineation Report Bay Minette, Baldwin County, Alabama



Prepared for:

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GMC

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February 2, 2024

Waters of the U.S. Delineation Report

Abundant Life Christian Center

February 2024

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SECTION 1 INTRODUCTION

Goodwyn Mills Cawood, LLC (GMC) has completed a waters of the U.S., including wetlands and streams, delineation on the ±5.29-acre site located off of Old Daphne Road in Bay Minette, Baldwin County, Alabama (Figure 1). The property can further be described as being located in Township-2-South, Range-3-East, and Section 16 (Figure 3). The center coordinates for the site are latitude 30.874156° and longitude -87.775494°.

1.1 Current Site Conditions

The site is located off of Old Daphne Road in Bay Minette, Baldwin County, Alabama. The site consists of a of a Church, maintained field, and hardwood forested area (Figure 2). The Church and maintained field are located in the southwest portion and the hardwood forested area is located throughout the northeast and southeast portion of the site. The surrounding land consists of residential development.

SECTION 2 WATERS OF THE U.S. DELINEATION

2.1 Methods

Prior to visiting the site, GMC biologists reviewed available maps including aerial photography (historical and current), USGS quadrangle, Baldwin County Soil Survey, National Wetland Inventory (NWI) map, and Federal Emergency Management (FEMA) maps in order to determine the potential for waters of the U.S. at the site. The 2023 aerial imagery depicts a building and maintained field in the southwest corner and a hardwood forested area throughout the rest of the site (Figure 2). The Bay Minette, Alabama USGS Quadrangle Map (Figure 3) and NWI Map (Figure 5) depict no wetlands or streams throughout the property. A review of the FEMA flood map revealed that the property is located outside of the Special Flood Hazard Area (SFHA) within Zone X (Figure 6). According to the Baldwin County Soil Survey, the project area contains one (1) soil with a hydric component: Grady soils. These soils have a hydric rating of 85 which indicates that 85% of the mapped soil components meet the criteria of a hydric soil. The Gr soil is located throughout the central portion of the site.

GMC visited the project site on January 19, 2024 to identify and delineate potential waters of the U.S. including wetlands and streams. Wetland areas are delineated in accordance with the 1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual and the 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region. The wetlands are delineated using soil augers to sample and compare soil colors against the Munsell color chart to determine whether the soils meet the USACE criteria of hydric soils. The wetland boundaries are flagged according to the three required wetland criteria (vegetation, hydrology, and soils). Jurisdictional streams are classified as intermittent or perennial. All waters of the U.S. identified on site were surveyed with a mapping grade (sub meter) GPS system. A summary of the resources found on site is below.

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2.2 Delineated Resources

<u>Streams</u>

On the day of the site visit, two (2) drainage ditches (D-1 and D-2) were identified on the subject property. D-1 and D-2 are man-made dug ditches. D-1 is situated at the property's southwest corner, extending along the southern boundary, before its confluence with D-2. D-2 is located in northern portion of the site and extends south through the central portion of the property. See Appendix A for figures depicting the location of the ditches. The table below shows the linear footage of each ditch. General photographs of the ditches are attached in Appendix B.

Ditch	Linear Feet (Lf)
D-1	383.8
D-2	334.2



General view of D-2.

<u>Wetlands</u>

One (1) wetland (W-1) was delineated during the site visit. W-1 is located along the northeast and southeastern portions of the site and consists of a hardwood forested wetland. A description of the three wetland field indicators observed within the wetland area can be found below. The table below shows the acreage of the wetland delineated on site. General photographs of W-1 are attached in Appendix B. Please refer to the Wetland Data Determination Sheets in Appendix C.

Wetland Resources	Acres (Ac)
W-1	1.59

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2.2.1 Vegetation

W-1 consists of hardwood forested wetland containing a tree canopy and shrub layer. Sweet-Bay Magnolia (*Magnolia virginiana*) was found within W-1. This species is classified as a facultative wetland species (usually occur in wetlands but occasionally found in non-wetlands); and they are indicative of vegetation found in wetland ecosystems.

2.2.2 Hydrology

The subject site was found on the 1980 Photorevised 1985 Bay Minette, Alabama, U.S. Geological Survey Quadrangle map. The subject site ranges in elevation from approximately 75-80 feet above mean sea level. Wetland hydrology indicators observed on site include presence of reduced iron, saturation, high water table, and crayfish burrows.

2.2.3 Soils

Soil samples were observed throughout the subject site and hydric soils were identified within W-1. A hydric soil is one that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper horizons. Redox features within the soil matrix and pore lining were noted throughout W-1. According to the Baldwin County Soil Survey, the project area contains two (2) soil types: Malbis fine sandy loam, 0 to 2 percent slopes and Grady soils. A list of the following soil types is described below.

• Malbis fine sandy loam, 0-2% slopes (MaA)

The Malbis series consists of very deep, moderately well or well drained, moderately to slowly permeable soils on broad interfluves and uplands of the Southern Coastal Plain. Most areas of Malbis soils have been cleared and are used for the cultivation of corn, cotton, potatoes, peanuts and soybeans. Forested areas consist of loblolly pine, slash pine, shortleaf pine, longleaf pine, sweetgum, and red oak. Areas of pastureland are mainly planted to bermudagrass, Bahia grass, and small grains.

• Grady soils (Gr)

The surface layer of these soils is very dark gray to black. The texture of the subsoil ranges from sandy loam to clay. Mapped with these soils are areas that have a surface layer of fine sandy loam to silty clay loam. Also included are some areas where the surface layer is muck to a depth of as much as 12 inches. About 5 percent of the acreage of Grady soils occurs within areas of Norfolk, Ruston, and Goldsboro soils and in those areas the surface layer and subsoil are sandier than those in the profile described as typical of the series. In some places there is a concretionary pan in the profile. These areas are all too small to be mapped separately.

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According to the Baldwin County hydric soil list, one (1) of the soil types listed above is listed as being hydric: Grady soils.



View of reduced iron and depleted matrix located within W-1.

SECTION 3 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions and Recommendations

Goodwyn Mills Cawood, LLC (GMC) has completed a waters of the U.S., including wetlands and streams, delineation on the ±5.29-acre site located off of Old Daphne Road in Bay Minette, Baldwin County, Alabama. One (1) wetland area and two (2) ditches have been identified on the site. The U.S. Army Corps of Engineers (USACE) has final authority when determining the jurisdiction of a water resource. A Jurisdictional Determination can be submitted to the USACE, if needed. If impacts to wetlands are expected, it is recommended that the appropriate USACE permit be obtained prior to construction.

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SECTION 4 REFERENCES

U.S. Geological Survey, Bay Minette, Alabama topographic quadrangle, 1:24,000 scale

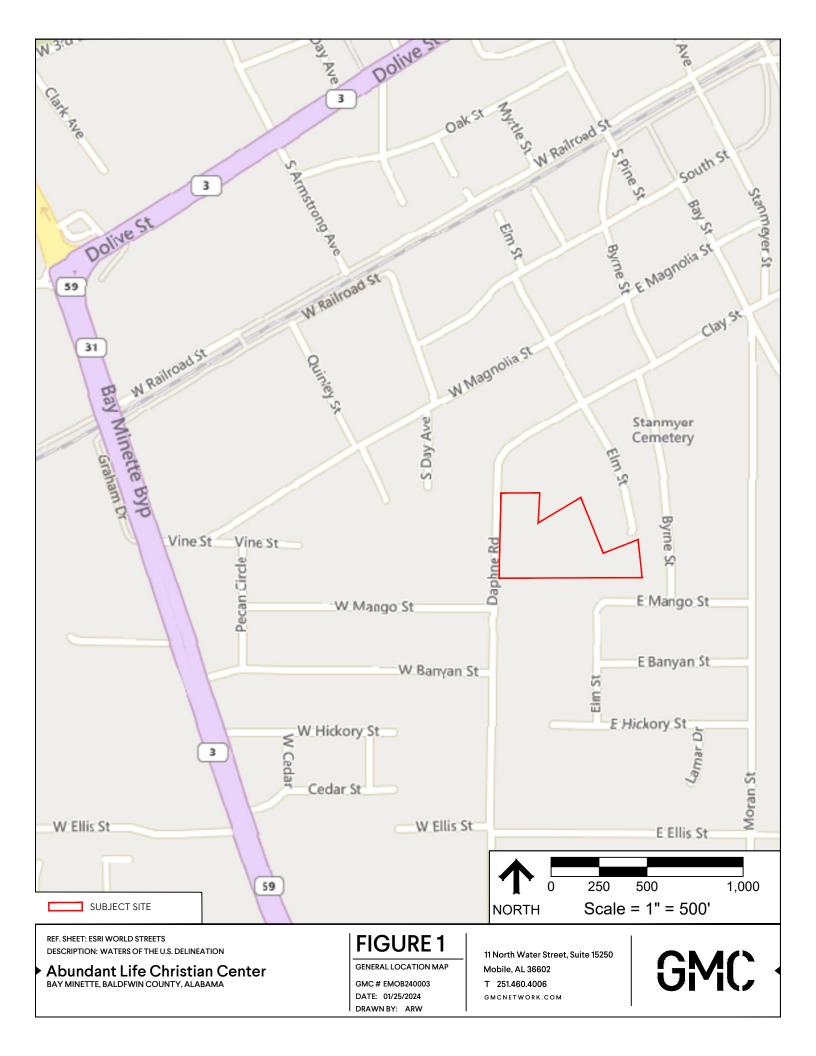
https://www.fws.gov/program/national-wetlands-inventory

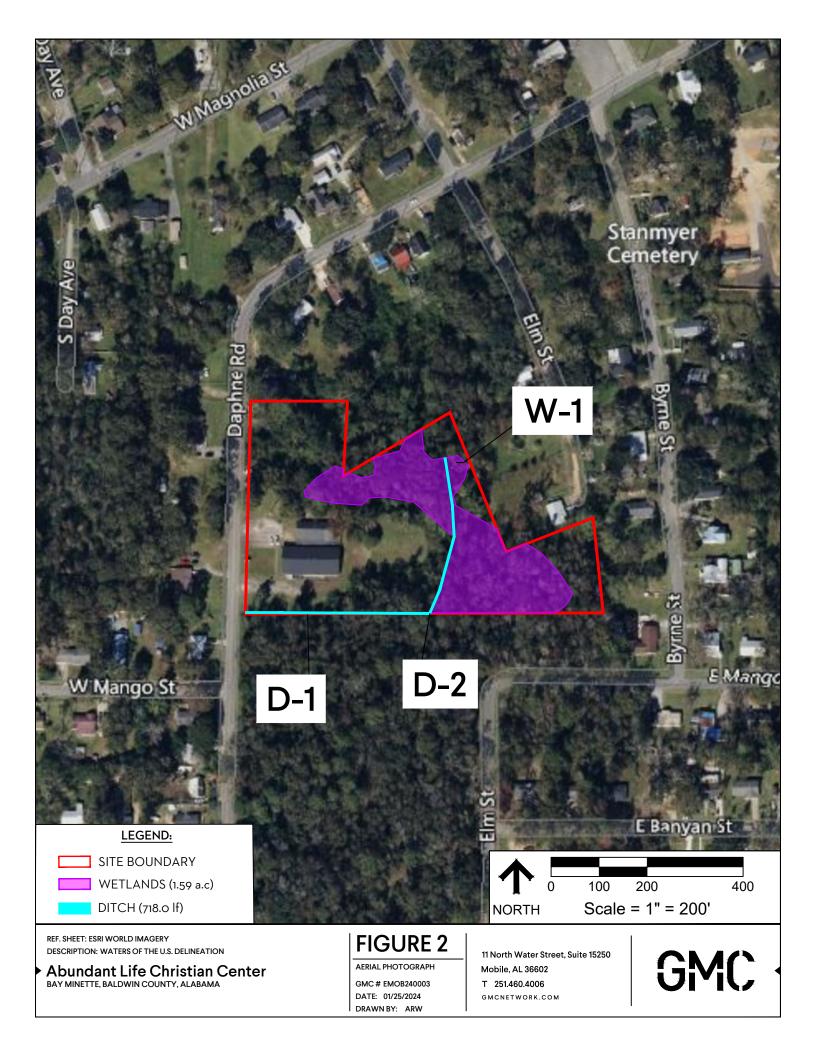
https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm

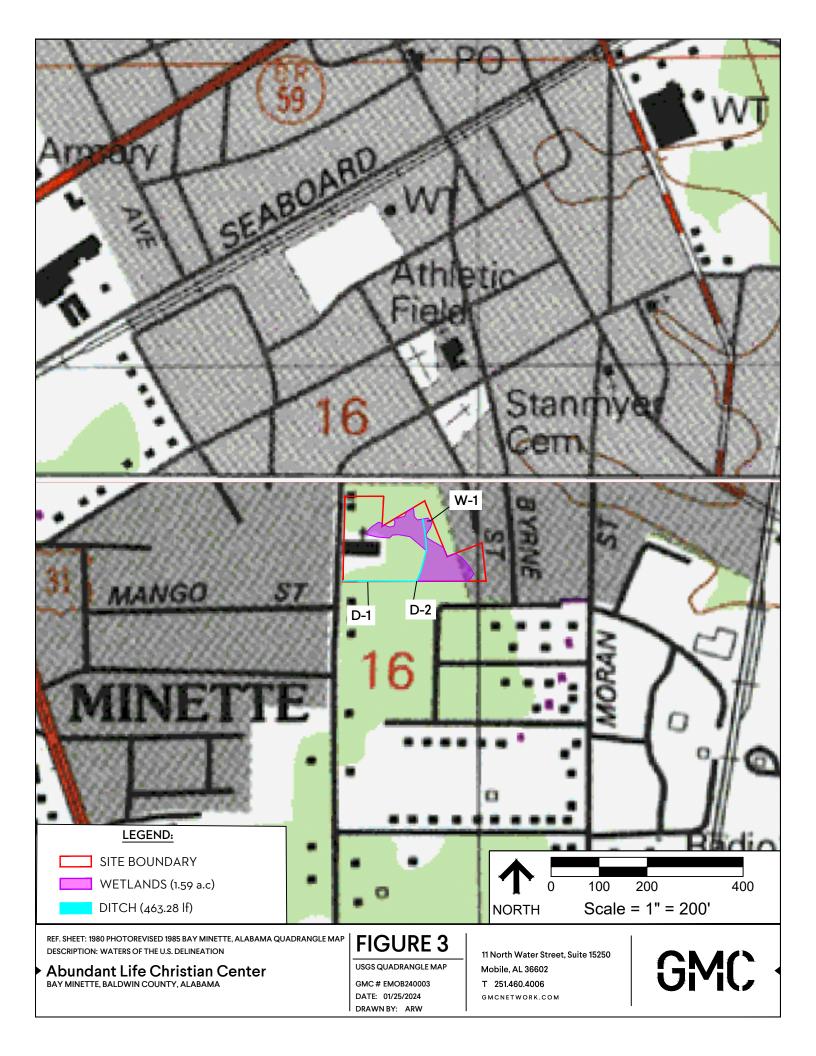
https://isv.kcsgis.com/al.baldwin_revenue/

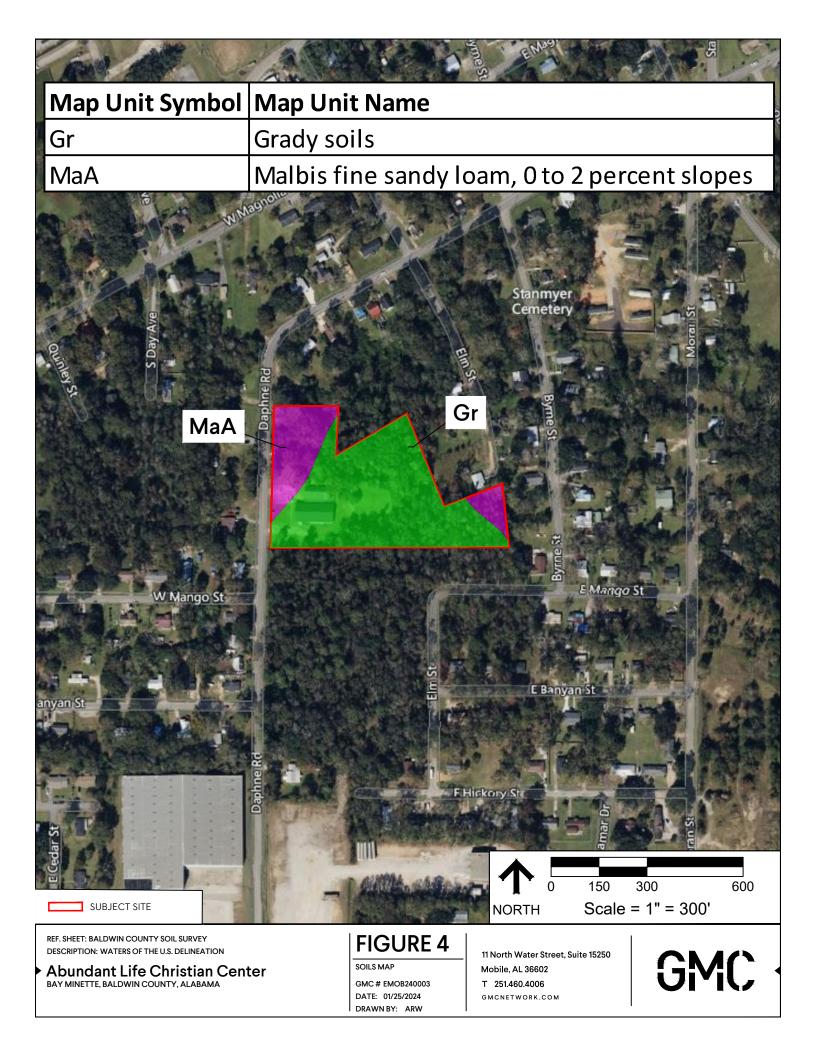
https://msc.fema.gov/portal/search?AddressQuery=mobile%20al#searchresultsanchor

APPENDIX A





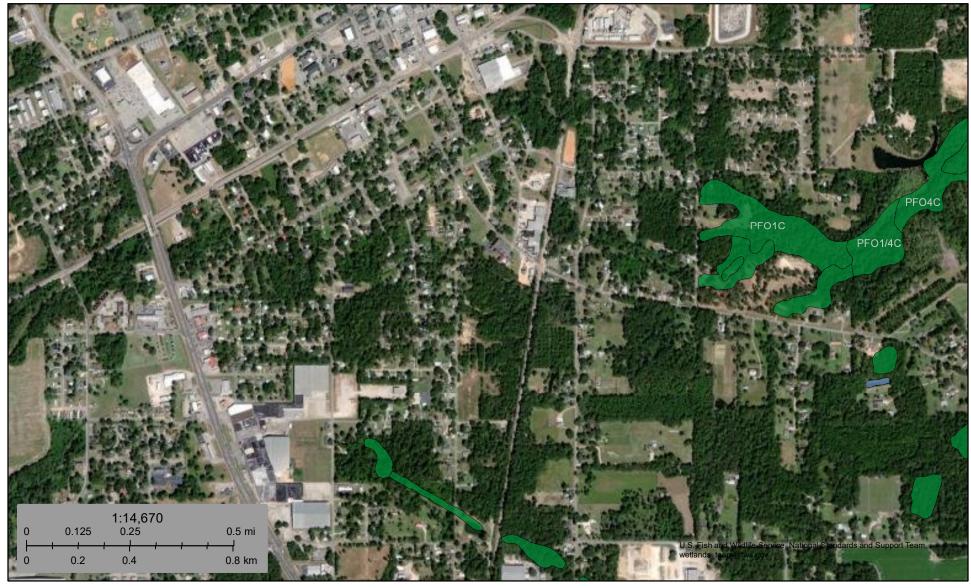






U.S. Fish and Wildlife Service National Wetlands Inventory

Abundant Life - Bay Minette



January 18, 2024

Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Pond

Freshwater Emergent Wetland

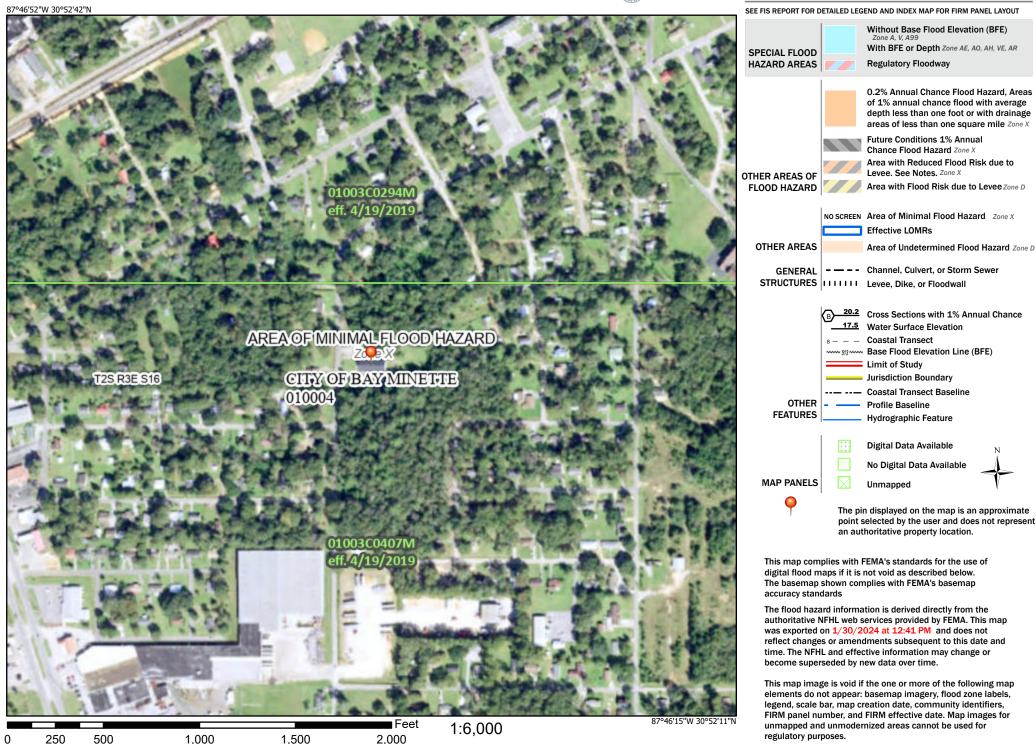
Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette



Legend



Basemap Imagery Source: USGS National Map 2023

APPENDIX B



General view of the church onsite.



General view of the maintained field onsite.

GMC

P-2

P-1



General view of D-1 located in the southwest corner of the site, extending east.



General view of D-2 located in the central portion of the site, extending north.

GMC

P-4

P-3



General view of the southern portion of W-1.



General view of the southern portion of W-1.

GMC

P-6

P-5

P-7



General view of representative soils within W-1.



APPENDIX C

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Abundant Life	Church	City/C	_{County:} Bay Minette I	Baldwin Cour	Sampling Date: <u>1-19-2024</u>
Applicant/Owner: Abundant L	_ife Church			State: AL	Sampling Point: Wet Data
Investigator(s): Rob Carlton,					
					Slope (%):
					Datum: NAD83
Soil Map Unit Name:					cation:
Are climatic / hydrologic conditio					
					present? Yes <u>/</u> No
Are Vegetation, Soil					
Are Vegetation, Soil	, or Hydrology	/ naturally problema	atic? (If needed, o	explain any answe	irs in Remarks.)
SUMMARY OF FINDING	S – Attach si	ite map showing san	npling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? Remarks:		✓ No ✓ No ✓ No	Is the Sampled Area within a Wetland?	Yes 💆	No
HYDROLOGY					
Wetland Hydrology Indicator		check all that apply)		-	ators (minimum of two required)
Primary Indicators (minimum or Surface Water (A1)	<u>r one is required,</u>	Water-Stained Leave	es (B9)	Surface Soil	getated Concave Surface (B8)
✓ High Water Table (A2)		Aquatic Fauna (B13)		Drainage Pa	
Saturation (A3)		Marl Deposits (B15)		Moss Trim L	
Water Marks (B1)		Hydrogen Sulfide Od			Water Table (C2)
Sediment Deposits (B2)		Oxidized Rhizospher			
Drift Deposits (B3)		Presence of Reduced			/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Recent Iron Reduction			: Position (D2)
Iron Deposits (B5)		Thin Muck Surface (0		Shallow Aqu	
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in Rer	marks)	FAC-Neutra	l Test (D5)
Field Observations: Surface Water Present?	Voc No	Dopth (inchos):			
Water Table Present?		Depth (inches): Depth (inches): _3"	BLS		
Saturation Present? (includes capillary fringe)		Depth (inches): <u>Su</u>		Hydrology Prese	nt? Yes 🖌 No
Describe Recorded Data (strea	am gauge, monito	oring well, aerial photos, pre	vious inspections), if ava	ailable:	
Remarks:					

VEGETATION – Use scientific names of plants.

Sampling Point: Wet Data

Tree Stratum(Plot sizes: 30 ft% CoverSpecies?Status1. Quercus nigra (Water Oak)50yesFACThat Are OBL, FACW, or FAC:112. Magnolia grandiflora (Southern Magnolia)10yesFACTotal Are of Dominant Species11	
Lo Magnolia grandiflora (Southern Magnolia) 10 yog EAC L	_ (A)
3. <u>Magnolia virginiana (Sweet Bay)</u> <u>10</u> <u>yes</u> <u>FACW</u> Species Across All Strata: <u>11</u>	(B)
4. Liquidambar styraciflua (Sweet gum) 5 no FAC Percent of Dominant Species	
5. <u>Acer rubrum (Red Maple)</u> <u>2</u> <u>no</u> <u>FAC</u> That Are OBL, FACW, or FAC: 100%	(A/B)
6	
7 Prevalence Index worksheet:	
77% = Total Cover <u>Total % Cover of:</u> <u>Multiply by:</u>	
Sapling Stratum (_15 ft) OBL species x 1 =	
1. Quercus nigra (Water Oak) 15 yes FAC FACW species x 2 =	
2. <u>Magnolia virginiana (Sweet Bay)</u> <u>5</u> <u>yes</u> <u>FACW</u> FAC species <u>x 3 =</u>	
3. <u>Magnolia grandiflora (Southern Magnolia)</u> <u>5</u> <u>yes</u> <u>FAC</u> FACU species x 4 =	
4 UPL species x 5 =	
5 Column Totals: (A)	(B)
6.	
7 Prevalence Index = B/A =	
Shrub Stratum (_15 ft)	
1. Ligustrum sinense (Privet) 30yesFAC Prevalence Index is ≤3.0 ¹	
2. <u>Magnolia virginiana (Sweet Bay)</u> <u>5</u> <u>no</u> <u>FACW</u> Problematic Hydrophytic Vegetation ¹ (Exp	lain)
	,
3	v must
be present	ymaot
5	
7 Definitions of Vegetation Strata:	
35% = Total Cover	
Herb Stratum (<u>5 ft</u>) Tree – Woody plants, excluding woody vine	
1. <u>Rubus sp.</u> <u>5</u> <u>yes</u> <u>FAC</u> approximately 20 ft (6 m) or more in height and 2 in (7.6 cm) or longer in diameter at broad	ld
2 3 in. (7.6 cm) or larger in diameter at breast height (DBH).	
3	
4 Sapling – Woody plants, excluding woody v	ines.
5 approximately 20 ft (6 m) or more in height au	
6 than 3 in. (7.6 cm) DBH.	
7	
8 Shrub – Woody plants, excluding woody vir	es,
9 approximately 3 to 20 ft (1 to 6 m) in height.	
nerb – All herbaceous (her-woody) plans,	-
11 herbaceous vines, regardless of size. Include	es
12 woody plants, except woody vines, less than	
<u>Woody Vine Stratum</u> (<u>30 ft</u>) = Total Cover approximately 3 ft (1 m) in height.	
	of beight
	or neight.
2	
3	
4 Hydrophytic	
5 Vegetation	
= Total Cover Present? Yes <u>Ves</u> No	
Remarks: (If observed, list morphological adaptations below).	

SOIL

Depth	. 、 Matrix			x Feature			n the absence	,
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 2/1	100					loam	saturated
5-10	10YR 5/2	90	10YR 6/6	10	RM	PL	clay	saturated
10-12+	10YR 5/2	80	10YR 6/6	20	RM	PL	clay	saturated
Hydric Soil		letion, RM=					Indicators	cation: PL=Pore Lining, M=Matrix.
 Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast P Sandy M Sandy F Stripped 	oipedon (A2)	RR P, T, U)) e (A11) MLRA 150 <i>A</i> _RR O, S)	Delta Ochric Reduced Ve Piedmont Flo	urface (S9 cy Mineral ed Matrix htrix (F3) Surface (rk Surface essions (F _RR U) hric (F11) nese Mass ace (F13) (F17) (M rtic (F18) podplain S	9) (LRR S, (F1) (LRF (F2) F6) e (F7) F8) (MLRA 1 (RR P, T LRA 151) (MLRA 15 Goils (F19)	T, U) ₹ O) LRR O, P , U) 60A, 150B (MLRA 1	2 cm l Reduc Piedm Anom (ML Red P Very S Other s, T) ³ Indic we	Muck (A9) (LRR O) Muck (A10) (LRR S) eed Vertic (F18) (outside MLRA 150A,B nont Floodplain Soils (F19) (LRR P, S, T) alous Bright Loamy Soils (F20) RA 153B) arent Material (TF2) Shallow Dark Surface (TF12) (LRR T, U) (Explain in Remarks) ators of hydrophytic vegetation and tland hydrology must be present.
Туре:								J
Depth (in Remarks:	ches):						Hydric Soi	Present? Yes No

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Abundant Life Church	City/0	County: Bay Minette	Baldwin Cour	Sampling Date: <u>1-19-2024</u>		
Applicant/Owner: Abundant Life Church			State: AL	_ Sampling Point: Dry Data		
Investigator(s): Rob Carlton, Ashtyn Walmsley						
Landform (hillslope, terrace, etc.):	Loca	relief (concave, convex	, none):	Slope (%):		
Subregion (LRR or MLRA):	Lat: <u>30.87411</u>	8 Long: _	-87.775355	Datum: NAD83		
Soil Map Unit Name:						
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology	significantly distu	bed? Are "Norma	al Circumstances'	present? Yes 🖌 No		
Are Vegetation, Soil, or Hydrology			explain any answ	vers in Remarks.)		
			ana tranacat	a important factures ato		
SUMMARY OF FINDINGS – Attach site m	iap snowing sar		ons, transect	s, important features, etc.		
Hydric Soil Present? Yes	No No No	Is the Sampled Area within a Wetland?	Yes	No <u> </u>		
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indi	cators (minimum of two required)		
Primary Indicators (minimum of one is required; chec	k all that apply)		Surface So	il Cracks (B6)		
Surface Water (A1)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		Drainage Patterns (B10)				
Saturation (A3)	Marl Deposits (B15)	(LRR U)	Moss Trim	Lines (B16)		
	Hydrogen Sulfide Oc		Dry-Season Water Table (C2)			
	-	- , ,	Crayfish Burrows (C8)			
Drift Deposits (B3)	Presence of Reduce	d Iron (C4)	<u>Saturation</u>	Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Geomorphi	c Position (D2)				

Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No _	✓ Depth (inches):	
Water Table Present? Yes No _	✓ Depth (inches):	
Saturation Present? Yes <u>No</u> (includes capillary fringe)	✓ Depth (inches):	Wetland Hydrology Present? Yes
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	tions), if available:

Remarks:

No_

VEGETATION – Use scientific names of plants.

Sampling Point: Dry Data

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot sizes: <u>30 ft</u>)		Species?		Number of Dominant Species
1. <u>Chinese Tallow (Triadica sebifera)</u>	5	yes	FAC	That Are OBL, FACW, or FAC: <u>6</u> (A)
				Total Number of Dominant
3				Species Across All Strata:6 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				Prevalence Index worksheet:
7				
	5%	= Total Co	over	
Sapling Stratum (<u>15 ft</u>)			540	OBL species x 1 =
1. <u>Quercus nigra (Water Oak)</u>				FACW species x 2 =
2. <u>Acer negundo (Box Elder)</u>				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7				
	11%	= Total Co	over	Hydrophytic Vegetation Indicators:
Shrub Stratum (<u>15 ft</u>)				✓ Dominance Test is >50%
1. <u>Ligustrum sinense (Privet)</u>			FAC	Prevalence Index is ≤3.0 ¹
2. <u>Quercus nigra (Water Oak)</u>	5	no	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present.
6				
7				Definitions of Vegetation Strata:
	55%	= Total Co	over	
Herb Stratum(5 ft))				Tree – Woody plants, excluding woody vines,
1. <u>Trifolium sp. (Clover)</u>	60%	yes		approximately 20 ft (6 m) or more in height and
2. <u>Viola odorata (Sweet Violet)</u>	5%	no		3 in. (7.6 cm) or larger in diameter at breast
3				height (DBH).
4				Sapling – Woody plants, excluding woody vines,
5				approximately 20 ft (6 m) or more in height and less
G				than 3 in. (7.6 cm) DBH.
7				, , , , , , , , , , , , , , , , , , ,
8				Shrub – Woody plants, excluding woody vines,
9				approximately 3 to 20 ft (1 to 6 m) in height.
10				Herb – All herbaceous (non-woody) plants, including
11				herbaceous vines, regardless of size. Includes
12				woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Woody Vine Stratum(_30 ft)	65%	= Total Co	over	approximately 5 it (1 m) in height.
1. Lygodium japonicum (Climbing Fern)	5	VAS	FAC	Woody vine – All woody vines, regardless of height.
2				
3				
4				Hydrophytic
5				Vegetation Present? Yes No
	5%	= Total Co	over	Present? Yes <u>V</u> No
Remarks: (If observed, list morphological adaptations t	pelow).			

SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redo	x Feature	s				
(inches)	Color (moist)	%	Color (moist)	%		Loc ²	Texture	Remarks	;
0-9	10YR 3/4	100					sandy 中		
9-12+	7.5YR 5/8	100					sandy 🛖		
				·		·			
		·				·			
				<u></u>					
	oncentration, D=Dep	letion, RM=l	Reduced Matrix, CS	S=Covered	d or Coate	d Sand Gr		tion: PL=Pore Lining	
Hydric Soil I	Indicators:						Indicators fo	or Problematic Hydri	c Soils ³ :
Histosol			Polyvalue Be	low Surfa	ce (S8) (L	RR S, T, L	J) 1 cm Mu	ck (A9) (LRR O)	
Histic Ep	oipedon (A2)		Thin Dark Su	Irface (S9) (LRR S, [*]	T, U)	2 cm Mu	ck (A10) (LRR S)	
Black Hi	stic (A3)		Loamy Muck	y Mineral	(F1) (LRR	0)		l Vertic (F18) (outside	
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (F2)		Piedmon	it Floodplain Soils (F1	9) (LRR P, S, T)
<u> </u>	l Layers (A5)		Depleted Ma	trix (F3)			Anomalo	ous Bright Loamy Soils	s (F20)
Organic	Bodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)		(MLRA	A 153B)	
5 cm Mu	icky Mineral (A7) (LF	RR P, T, U)	Depleted Date	rk Surface	(F7)		Red Pare	ent Material (TF2)	
Muck Pr	esence (A8) (LRR U)	Redox Depression		8)		Very Sha	allow Dark Surface (TI	=12) (LRR T, U)
	ick (A9) (LRR P, T)		Marl (F10) (L				Other (E	xplain in Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Ocl		-	-			
	ark Surface (A12)		Iron-Mangan				T) ³ Indicato	ors of hydrophytic veg	etation and
	rairie Redox (A16) (-	, U)	wetlar	nd hydrology must be	present.
	lucky Mineral (S1) (I	_RR O, S)	Delta Ochric						
-	Bleyed Matrix (S4)		Reduced Ver						
	edox (S5)		Piedmont Flo						
	Matrix (S6)		Anomalous E	Bright Loai	my Soils (I	-20) (MLR	A 149A, 153C, 1	53D)	
	rface (S7) (LRR P, S						1		
_	_ayer (if observed):								
Туре:									1
Depth (inc	ches):						Hydric Soil P	resent? Yes	No
Remarks:									

APPENDIX D

Ashtyn Walmsley, QCI

Environmental Scientist

(608) 738-1085

ashtyn.walmsley@gmcnetwork.com

Ashtyn is an environmental scientist in GMC's Mobile, Alabama office with experience in National Pollutant Discharge Elimination System (NPDES) stormwater permitting, Waters of the U.S. wetland delineations and permitting, United States Department of Agriculture (USDA) environmental information documentation and state concurrence. She is a valuable member of our team and makes a positive impact with her contribution to GMC's environmental initiatives.

Management Plan Experience

• Bayou La Batre Stormwater Management Plan – Bayou La Batre, AL

Stream Restoration Experience

- Selma-Dixon Selma, AL
- Wolf Run Wiggins, MS

Wetland Delineation Experience

- Gaineswood Subdivision Fairhope, AL
- Riviera Utilities Foley, AL
- Loxley Warehouses Loxley, AL
- Loxley Water Capacity Loxley, AL
- MAWSS Eslava Creek Mobile, AL
- Ecovery Loxley, AL

Phase I Environmental Site Assessment Experience

- Gaineswood Subdivision Fairhope, AL
- Loxley Warehouses Loxley, AL
- Shellbank River Landing Spanish Fort, AL
- Whispering Pines Daphne, AL

NEPA Environmental Assessment Experience

- Monte Sano State Park Huntsville, AL
- 2022 DWSRF Water System Improvements Russell County, AL

Mitigation Monitoring Experience

- Midcreeks Mitigation Bank Eufala, AL
- Wolf Run Wiggins, MS

Invasive Species Removal Experience

- Midcreeks Mitigation Bank Eufala, AL
- Broadview Mitigiation Bank Eufala, AL

Construction Stormwater Experience

- OWA RV Resort Foley, AL
- Juniper Street Extension Foley, AL
- Bay Street Sudivision Foley, AL
- Battles Trace The Colony
- Gulf Shores High School Gulf Shores, AL
- LeFlore High School Mobile, AL



Education:

Bachelor of Biological Sciences with an Emphasis in Conservation, University of Southern Mississippi, 2022

Certifications:

• Qualified Credential Inspector (QCI)

Additional Training:

- Nature Based Stormwater Solutions Workshop The Nature Conservancy
- Phase I Environmental Site Assessment –
 The Environmental Institute
- Substantial Damage Workshop FEMA