# Appendix J Wetlands and Waters Delineation Report



July 2024 Puerto Verde Global Trade Bridge Project



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Prepared for Puerto Verde Holdings, LLC

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## Prepared for

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#### APPENDIX

Appendix A Wetland Data Sheets

# **ABBREVIATIONS**

1987 Manual	Corps of Engineers Wetlands Delineation Manual
APT	Antecedent Precipitation Tool
DF	drainage feature
EF	erosional feature
EIS	environmental impact statement
EPA	Environmental Protection Agency
FACU	facultative upland
FEMA	Federal Emergency Management Agency
GIS	geographic information system
IS	intermittent stream
Lidar	Light Detection and Ranging
NEPA	National Environmental Policy Act
NHD	National Hydrography Dataset
NOAA	National Oceanic and Atmospheric Administration
NRCS	National Resources Conservation Service
NWI	National Wetlands Inventory
OEA	Office of Environmental Analysis
OHWM	ordinary high water mark
Project	Puerto Verde Global Trade Bridge Project
PVGTB	Puerto Verde Global Trade Bridge
PVH	Puerto Verde Holdings
PS	perennial stream
RTK-DGPS	real-time kinematic differential global positioning system
Regional Supplement	Regional Supplement to the Corps of Engineers Wetland Delineation Manual; Great Plains Region (Version 2.0)
STB	U.S. Surface Transportation Board
TNW	traditionally navigable water
UPL	upland
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WOTUS	waters of the United States

## 1 Introduction

On December 14, 2023, Puerto Verde Holdings, LLC (PVH) filed a petition with the U.S. Surface Transportation Board (STB) for a license to construct and operate the Puerto Verde Global Trade Bridge (PVGTB) Project (project). The project involves the development of a new commercial vehicle and freight rail trade corridor between the cities of Eagle Pass, Texas, and Piedras Negras, Mexico, for the purpose of improving the cross-border movement of commercial goods and freight. The project would include the construction of two new bridges (road and rail) across the Rio Grande River; new road and rail approaches to those bridges and connections to existing road and rail infrastructure on both sides of the border; a central control tower; and various types of support and inspection facilities for both the roadway and rail line. The project would also include the construction of parking areas, security fencing, and other supporting infrastructure (e.g., utilities) for the new border crossings.

After review of the application, STB's Office of Environmental Analysis (OEA) determined that construction and operation of the project has the potential to result in significant environmental impacts, requiring the preparation of an environmental impact statement (EIS) pursuant to the National Environmental Policy Act (NEPA) (42 U.S.C. §§ 4321-4370m-11). STB issued a Notice of Intent to prepare an EIS for the PVGTB project on March 29, 2024 (Docket No. FD 36652). To support their analysis of potential project impacts on water resources under NEPA, OEA requested that PVH complete a delineation of all surface waterbodies within the project site, including wetlands, streams, rivers, ponds, lakes, and drainage ditches, regardless of jurisdictional status. To address this request, PVH contracted Anchor QEA to complete the work. Performance of the wetland and other waters delineation is intended to address this request and to support PVH's future application for a Department of the Army Permit from the U.S. Army Corps of Engineers (USACE) under Section 10 of the Rivers and Harbors Act and potentially Section 404 of the Clean Water Act. Authorization under Section 10 of the Rivers and Harbors Act is anticipated due to the nature of the project. However, the need for a permit pursuant to Section 404 of the Clean Water Act is yet to be determined due to unknowns related to the extent of fill activities and the geographic extent of federal jurisdiction across the survey area.

To address OEA's request, Anchor QEA completed a wetlands and other waters delineation at the approximate 217-acre survey area. The survey area is located along the Rio Grande River and Seco Creek in Eagle Pass, Maverick County, Texas (Figures 1 and 2 attached). Table 1 provides information relevant to the survey area. Work conducted as part of this assessment was completed in compliance with all relevant USACE and Environmental Protection Agency (EPA) regulations and guidance. While all aquatic features were mapped during the delineation effort, regardless of their jurisdictional status, Anchor QEA also conducted assessments to determine the likely jurisdictional status of each to help inform project development and future permitting efforts. Assessments related

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to the wetland determinations and delineations and associated assessments of jurisdictional status for on-site features are based on Anchor QEA's best professional judgment and are provided to the applicant as an informational tool. The actual designation of jurisdictional status and establishment of all jurisdictional boundaries within the property boundary rests with the USACE Fort Worth District. Neither Anchor QEA, nor any other private consultant, holds the authority to establish legally binding wetland/non-wetland boundaries or jurisdictional status for features located within the property boundary. The methods and findings of Anchor QEA's wetlands and other waters delineation are detailed in subsequent report sections.

USGS Hydrologic Unit Code (HUC12)	130800011805 130800020702				
USGS Quadrangle	Eagle Pass East, TX Eagle Pass West TX				
Survey Area Centroid (Decimal Degrees)					
Included Tax Parcels	3481 3499 3517 3520 3521 3526 3815 3817 3818 3819 3943 52457 52458	52459 53235 8712980 9154 9155 9156 9157 9158 9161 9162 9163 9163 9173 9174	9175 9176 9188 9189 9190 9253 9254 9255 9256 9270 9271 9271 9274 9275	9276 9277 9295 9296 9297 9298 9299 9300 9301 9320 9321 9322 9328	

# Table 1Additional Survey Area Information

# 2 Methods

## 2.1 Background Review Methods

To prepare for the wetlands and other waters delineation, Anchor QEA examined background data including USACE's Antecedent Precipitation Tool (APT), National Oceanic and Atmospheric Administration (NOAA) rainfall data, U.S. Geological Survey (USGS) Quadrangle Topographic Maps and its National Hydrography Dataset (NHD), Federal Emergency Management Agency (FEMA) floodplain data, U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) data, U.S. Department of Agriculture (USDA) National Resources Conservation Service (NRCS) soil data, Light Detection and Ranging (LiDAR) data, and current and historical aerial photography depicting the property. The purpose of the background review was to support the development of a comprehensive field survey plan and to inform the project team of anticipated site conditions.

## 2.2 Field Investigation Methods

To perform the wetlands and other waters delineation, Anchor QEA used the *Corps of Engineers Wetlands Delineation Manual* (USACE 1987), *Regional Supplement to the Corps of Engineers Wetland Delineation Manual; Great Plains* (Version 2.0) (USACE 2010), *Field Guide for Wetland Delineation: 1987 Corps of Engineers Manual* (Wetland Training Institute [WTI] 1987), and "Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in *Rapanos v. United States* and *Carabell v. United States*" (USACE and EPA 2008). While the *Rapanos v. United States* guidance is the currently implemented guidance, these guidelines are being implemented in conformance with the May 25, 2023, U.S. Supreme Court decision in *Sackett v. EPA*. Detailed regional standards and implementation methods for conformance with the decision have not been released by USACE Headquarters or the USACE Fort Worth District. However, Anchor QEA relied on the precedent set by recently issued USACE decisions and anecdotal information provided by USACE regulators to assess jurisdiction following *Sackett v. EPA*.

The routine method for sites greater than 5 acres was employed. The survey area is adjacent to both the Rio Grande and Seco Creek. Review of site topography indicates that the property appears to drain primarily to Seco Creek, rather than the Rio Grande. Therefore, a baseline parallel to Seco Creek was established and relied upon to develop survey transects. It should be noted that the location and orientation of the baseline and survey transects were previously coordinated with and approved by the USACE Fort Worth District. Consistent with the delineation manual, five transects were established to sufficiently survey the property. To confirm common names, scientific names, and the wetland indicator status of all plants identified within the survey area, Anchor QEA used the *National Wetland Plant List* (USACE 2020). To determine hydric soils and wetland hydrology, Anchor QEA used the 1987 Manual, the Regional Supplement, and *Field Indicators of Hydric Soils in the United States* (NRCS 2018). To make an upland or wetland determination, Anchor QEA recorded vegetation, soils,

and hydrology parameters at each sample point. To determine the lateral limits of stream features (e.g., Rio Grande and Seco Creek), Anchor QEA mapped the ordinary high water mark (OHWM) consistent with USACE's *Regulatory Guidance Letter No. 05-05*, which states that the OWHM is indicated by "physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means" (USACE 2005). Prior to conducting on-site surveys, Anchor QEA met with USACE's project manager on May 7, 2024, who provided additional anecdotal guidance. According to USACE personnel, the OHWM in this region is most closely associated with physical indicators of eroding banks. This recommendation was considered in combination with the regulatory guidance letter during OHWM mapping.

To determine the position of various points, Anchor QEA used both a sub-foot accuracy Trimble GEO 7X and a Trimble R10 dual-frequency real-time kinematic differential global positioning system (RTK-DGPS) working from the virtual reference station corrections network. The nominal accuracy of the typical dual-frequency RTK-DGPS is  $\pm 1$  centimeter horizontal and  $\pm 2$  centimeters vertical. Anchor QEA employed USACE's standard operating procedures for recording and submitting jurisdictional delineations with a GPS and geographic information system (GIS) data with GPS tools and technologies (USACE 2016). Position coordinates were recorded and then plotted in the office with ArcGIS 10.8.2.

## 2.3 Desktop Delineation Methods

Based on ownership status across the survey area, PVH was unable to obtain unobstructed access to the entire survey area. PVH coordinated right-of-entry requests with all private landowners, but

responses were not received for multiple parcels. Further, detailed surveying of the Rio Grande River shoreline could not be safely conducted based on the extent of border security infrastructure (i.e., razor wire) present along the riverbank. Where access could not be obtained, Anchor QEA relied on field data recorded in the vicinity of inaccessible areas, visual observations made from public right-of-way or adjacent private property where right-of-entry was obtained, and review of desktop resources to determine the likely extent of wetlands or other water resources. Desktop resources used to analyze inaccessible areas include low-altitude, high-resolution aerial photography, USFWS's NWI data, USDA/NRCS soil data, and publicly available LiDAR data. Figure 1 (in-text) depicts areas where full access was



Figure 1 Right-of-Entry Across Survey Area

obtained, areas where access was partially limited due to safety concerns, and areas where no access was obtained due to private ownership. In total, no access was achievable across approximately 5% of the survey area, a minimum of partial access was achievable across approximately 39% of the survey area, and full access was achievable across 56% of the survey area.

Specifically, the location of the OHWM along the Rio Grande River was determined based on an assessment of on-site visual observations, low-altitude aerial imagery, and publicly available LiDAR data. Site observations indicated that this stretch of shoreline contained relatively vertical banks that would likely be clearly depicted in LiDAR data. River shoreline access was possible at the convergence of Seco Creek and the Rio Grande River, and the horizontal position of OHWM was mapped. It is likely based on the overall topographic gradient of the area that the elevation of OWHM at the convergence of Seco Creek and Rio Grande River is nearly identical across the survey area. Therefore, Anchor QEA correlated LiDAR data to recorded field data and mapped the approximate location of OHWM along the Rio Grande River for areas where access could not be achieved.

# 3 Results

## 3.1 Background Information

Anchor QEA reviewed various sources of background information to support development of a detailed field survey plan and to better understand anticipated conditions at the property. Key information identified during the review of background information is provided in Table 2.

# Table 2Key Takeaways from Desktop Resources

Resource	Notes
	USACE's APT indicates that climatic conditions for the property are considered "drier than normal."
Rainfall Data <sup>2</sup>	Approximately 0.22 inches of precipitation fell in the region in the 6 days leading up to the survey event (Maverick County Internal Airport Station).
	The Rio Grande River is located along the western survey area boundary, and Seco Creek meanders in and out of the southern portion of the survey area. Elm Creek is located outside of but adjacent to the area north of the survey area.
USGS Topographic Mape <sup>3</sup> and	According to the NHD, the Rio Grande River is identified as perennial/artificial path, Seco Creek is identified as intermittent, and Elm Creek is identified as perennial.
NHD <sup>4</sup>	No indications of wetlands, open water, or land subject to inundation is visible within the survey boundary.
	As early as 1958, the survey area is depicted as relatively flat, undeveloped lands with several maps annotating the area as "Seco Mines."
FEMA Floodplain	Approximately half of the property is mapped within the 100-year floodplain (Zone A). Areas mapped as Zone A are associated with the Rio Grande River and Seco Creek and are located on the southern and western portion of the survey area.
	The remainder of the property is mapped outside of both the 100- and 500-year floodplains.
USFWS NWI <sup>6</sup>	No wetland features are depicted in the survey boundary. The only NWI features located within the survey boundary include multiple segments of Seco Creek, which is mapped as R4SBC (riverine, intermittent, streambed, seasonally flooded). Near the survey area, NWI features are limited to the Rio Grande River, which is mapped as
	R2UBH (riverine, lower perennial, unconsolidated bottom, permanently flooded); additional portions of Seco Creek; and Elm Creel, which is mapped as R2UBHx (riverine, lower perennial, unconsolidated bottom, permanently flooded, excavated).
USDA/NRCS Soil Data <sup>7</sup>	Soils mapped within the survey boundary include Catarina clay association, 0% to 5% slopes (CAB); Copita sandy clay loam, 1% to 3% slopes (CoB), Lagloria very fine sandy loam, 0% to 1% slopes (LgA); Lagloria very fine sandy loam, 1% to 3% slopes (LgB), Maverick association, undulating (MKC); and Pryor clay loam, 1% to 3% slopes (PrB).
	None of the mapped soil units are identified on the hydric soils list.
	The property appears to be relatively flat with a very slight topographic trend towards the south and Seco Creek.
LiDAR Data <sup>8</sup>	Several linear, depressional landforms that extend from Seco Creek are evident on the southern portion of the survey area. An additional linear depression is visible extending from Elm Creek and onto the northern portion of the property. This feature is much more linear in nature and

Notes
may represent a maintained ditch. These areas require additional investigation to determine if they function as tributary features.
Historically, the survey area persisted as primarily agricultural fields with the Rio Grande River located adjacent to the west and Seco Creek meandering along the southern portion of the survey area.
The location and alignment of both the Rio Grande River and Seco Creek appear relatively unchanged over time.
Site improvements appear limited to various unimproved roads associated with agricultural activities and minor residential development south of Seco Creek.
Aerial signatures suggesting substantial inundation and/or saturation throughout the property are absent. Evidence of aquatic habitat appears to be limited to the Rio Grande River, Seco Creek, one concrete-lined drainage ditch east of Del Rio Boulevard, and a possible irrigation ditch bisecting an agricultural field on the northern portion of the survey area.
Historical aerial imagery dating back to 1959 suggests that the concrete-lined ditch was constructed between 1974 and 1984. Prior to its construction, it appears that an ephemeral
stream was located just west of the channel and was impacted by development. It is likely that concrete channel was constructed to convey ephemeral flow that was conveyed by a historical enhemeral tributary prior to 1972

Sources:

1. USACE APT. https://erdc-library.erdc.dren.mil/jspui/bitstream/11681/47189/3/ERDC-TN%20WRAP-23-2.pdf.

- 2. NOAA Regional Climate Centers. https://agacis.rcc-acis.org/.
- 3. USGS Quadrangle Maps. https://ngmdb.usgs.gov/topoview/viewer/#4/40.00/-100.00.

4. USGS Hydrography Dataset. <u>https://www.usgs.gov/national-hydrography/national-hydrography/national-hydrography-dataset.</u>

5. FEMA Floodplain Viewer. https://www.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd.

- 6. USFWS Wetland Mapper. https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/.
- 7. USDA/NRCS Web Soil Survey. <u>https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx</u>; NRCS State Soil Data Access (SDA) Hydric Soil List. <u>https://www.nrcs.usda.gov/publications/query-by-state.html.</u>
- 8. USGS West Texas LiDAR. https://data.tnris.org/collection/?c=61869307-e095-4a75-9008-2537f07e1d07.
- 9. Google Earth Pro. https://earth.google.com/web/; Historic Aerials by NETR Online. https://www.historicaerials.com/

#### 3.2 Delineation Results

Consistent with the 1987 Manual, Anchor QEA utilized five transects within the survey area, and sample points were recorded to characterize the different vegetation communities, habitat types, land cover types, and land features encountered. In Total, Anchor QEA recorded 20 sample points to characterize the different communities. Figure 3 (attached) provides an overview of the transect and sample point locations. Appendix A includes copies of wetland datasheets. It should be noted that right-of-entry could not be obtained for all portions of the survey area. Aquatic features that could not be comprehensively surveyed and mapped on site are designated with an asterisk (\*) throughout this report and in accompanying maps.

No wetlands were identified during on-site survey efforts, and portions of the property where rightof-entry could not be obtained are expected to exhibit similar upland characteristics. The only aquatic features identified were two stream features. Other notable site features identified included two drainage features (DF) and eight erosional features (EF). Habitat communities identified across the survey area included scrub-shrub upland and agricultural field. Each notable site feature and upland habitat community is detailed in subsequent report sections.

### 3.3 Aquatic Features

### 3.3.1 Stream Features

Two individual stream features were identified within the survey boundary. The Rio Grande River was identified along the western survey boundary and was classified as a perennial stream, PS-1\*. At the time of the survey, PS-1\* contained steep banks and flowing water toward the south. It should be noted that access to the shoreline of PS-1\* was limited due to the presence of razor wire that is installed as part of border security measures. While the OHWM could not be mapped in detail due to limited accessibility, the location of the OHWM was estimated based on LiDAR data. It is anticipated that the elevation of OHWM mapped at the convergence of Seco Creek and the Rio Grande River accurately represent the elevation of OHWM along this stretch of the PS-1\*. In total, approximately 0.37 acres of PS-1\* are located within the survey area.

A second stream feature, Seco Creek (IS-1), was identified extending northeast from the Rio Grande River. At the time of the survey event, this feature lacked flowing water, but isolated pools were observed throughout, indicating that the feature is likely intermittent. IS-1 meanders to the northeast entering and exiting the survey boundary at multiple locations. In total, four discrete segments of Seco Creek (IS-1a, IS-1b, IS-1c, and IS-d) were mapped within the survey boundary and totaled approximately 2.04 acres. Consistent with relevant guidance and recommendations provided by USACE personnel, evidence of bank erosion was used as the primary indicator of OHWM. Within the survey area, IS-1 contained moderately sloping banks (i.e., approximately 2:1 side slopes) and generally lacked vegetation below the plane of OHWM.

## 3.4 Other Features

#### 3.4.1 Ditch Features

DF-1 is located on the northern portion of the survey boundary between survey transects T3 and T4 and is approximately 1,087 feet in length. This feature appears to function as a drainage ditch situated partially along one of the unimproved road alignments. According to personnel familiar with operations at the property, this feature serves to capture and convey irrigation water runoff. DF-1 enters a culvert at its northern terminus and drains into EF-1\*, which is discussed later. DF-1 appears to have been excavated entirely from uplands and drains only uplands.

DF-2 is located on the southern portion of the survey area and east of Del Rio Boulevard. Approximately 457 linear feet of DF-2 were located within the survey boundary. However, this feature continued both north and south of the property. Within the survey boundary, DF-2 persists as a

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concrete-lined drainage feature that flows to the north. Off site to the north, this feature shares a connection with Seco Creek. Off site to the south, this feature transitions to an earthen ditch and continues to the south and east. Within the survey area, this feature appears to be a constructed stormwater facility. According to the review of aerial photography, it appears that this feature was constructed between 1974 and 1984. This feature appears to be a relocated portion of a tributary that is depicted on the 1959 USGS quadrangle map for Eagle Pass East, Texas. This feature may act as a relocated tributary. However, it does not appear to convey a relatively permanent flow of water.

### 3.4.2 Erosional Features

A total of eight EFs were identified throughout the survey area and included EF-1, EF-2, EF-3, EF-4, EF-5, EF-6, EF-7a, and EF-7b. All but one of these features were located on the southern portion of the survey area in the vicinity of Seco Creek (IS-1). EFs identified across the survey area lacked vegetation and appear to have formed due to stormwater runoff scouring areas that lacked dense herbaceous vegetation. A discussion of each feature is as follows.

EF-1\* was the only feature not located in close proximity to Seco Creek (IS-1). This feature was located between survey transects T3 and T4 on the northern portion of the survey area. EF-1\* shared a culvert connection with DF-1 and extended outside the survey area to the north. It should be noted that this feature could not be safely mapped due to extremely steep banks and extensive natural debris that further limited ingress/egress. However, drone imagery and LiDAR were used to determine the approximate alignment. EF-1\* is approximately 418 feet long and is situated between off-site portions of Elm Creek and DF-1. As detailed previously, personnel familiar with current operations at the property indicate that the combination of DF-1 and EF-1\* serve to collect and convey irrigation runoff associated with on-site agricultural activities. EF-1\* appears to have formed due to scour of irrigation water runoff. This feature does not exhibit an OHWM and is characterized by low volume, infrequent, and short-duration flow received from DF-1.

The remaining EFs (EF-2, EF-3, EF-4, EF-5, EF-6, EF-7a, and EF-7b) are each located south of Seco Creek on the southern portion of the survey area. The approximate length of these features is 255, 246, 141, 238, 159, 143, and 119 feet, respectively. These EFs appear to be naturally occurring and have likely formed as a result of high-energy runoff following significant precipitation events. These features do not appear to act as tributaries to Seco Creek (IS-1), are characterized by low volume, infrequent, and short-duration flow, and lack indicators of OHWM.

EF-2 appears to collect runoff during precipitation events and flows to the north where it shares a direct connection with Seco Creek. This EF exhibits gentle slopes and poorly defined boundaries to the south but is more deeply incised to the north and at its connection to Seco Creek.

EF-3, EF-4, EF-5, and EF-6 are each located south of Seco Creek and east of EF-2. Each of these features are shallow in nature and exhibit poorly defined boundaries. At the northern terminus of each, these features transition to unconfined upland habitat where discernible boundaries are not present. Any flow exiting these features toward Seco Creek would be via sheetflow across unconfined upland habitat.

EF-7a and EF-7b are located east of EF-6 and appear to be remnant portions of a single past feature. However, due to the construction and maintenance of an unimproved road used by border patrol personnel, this feature has been separated into two distinct features. It should be noted that there is no culvert or other subsurface connection passing below the unimproved road that would provide a connection between EF-7a and EF-7b. EF-7a is located north of the unimproved road and connects directly to Seco Creek. EF-7b is located south of the unimproved and is separated from Seco Creek due to the lack of culverts or other subsurface connections.

## 3.5 Upland Habitat Communities

Two distinct upland habitat types were identified across the survey area. Generally, the scrub-shrub upland community is concentrated along the banks of Seco Creek, along survey area boundaries, and along the shoreline of the Rio Grande River. Areas categorized as agricultural field are located north of Seco Creek. Site improvements identified across the survey area were limited to unimproved roads typically associated with agricultural and border security operations. More noteworthy site improvements were limited to minor residential developments east of Del Rio Boulevard and one homesite situated along the western survey boundary. Table 3 provides a summary of the habitat communities identified and their acreages. A map showing the location and extent of each community is provided in Figure 4 (attached). Each habitat type is summarized as follows.

#### Table 3 Survey Area Habitat Communities

Habitat Community	Acreage
Agricultural field	105.5
Scrub-shrub upland	112.7
Total	218.2

## 3.5.1 Scrub-Shrub Upland—112.7 Acres

The scrub-shrub upland community was the most prevalent community identified and comprised approximately 113 acres of the survey area. This community was generally located along the perimeter of the survey area and along the Rio Grande River and Seco Creek. Sample points recorded within the scrub-shrub upland community include T1SP01, T1SP02, T2SP02, T2SP03,

T3SP01, T3SP02, T3SP03, T4SP02, T5SP01, ASP01, ASP02, ASP03, ASP04, ASP05, and ASP07. Vegetation was composed primarily of honey mesquite (*Prosopsis gladulosa*; facultative upland [FACU]) in the tree stratum; honey mesquite, blackbrush acacia (*Acacia rigidula*; upland [UPL]), Mexican palo-verde (*Parkinsonia aculeata*; facultative), and mealy false acacia (*Vachellia farnesiana*; FACU) in the sapling stratum; and blackbrush acacia, erect prickly-pear (*Opuntia stricta*; FACU), buffel grass (*Cenchrus ciliaris*; UPL), and upright prairie coneflower (*Ratibida columnifera*; UPL) in the herbaceous stratum. While surface soil cracks were identified sporadically throughout this community, wetland criteria for hydrology were not identified. Soil samples recorded within this community did not meet hydric soil criteria, had a matrix color of 2.5Y 5/3 or 2.5Y 6/3, and lacked redoximorphic features. Based on the lack of hydrophytic vegetation, indicators of wetland hydrology, and the presence of hydric soils, this community was determined to be an upland habitat.

## 3.5.2 Agriculture Field—105.5 Acres

Portions of the survey area appear to be presently used or used in the recent past for agricultural purposes. Evidence of sorghum production was observed. However, extensive growth was absent as fields appeared fallow at the time of the survey. Further evidence of agriculture use was observed in the form of a center-pivot irrigation system located on the southernmost field. These portions of the survey area likely persisted as scrub-shrub upland habitat that is consistent with other unaltered portions of the site. These areas were generally located on the central portion of the property north of Seco Creek and comprised approximately 106 acres of the survey area. Sample points recorded in the area included T2SP01, T3SP03, T4SP01, ASP06, and ASP08. Vegetation identified throughout this community consisted primarily of buffel grass, silverleaf nightshade (Solanum elaeagnifolium; UPL), and Bermuda grass (Cynodon dactylon; FACU) in the herbaceous stratum. Tree, sapling, and woody vine species were entirely absent through this community. Indicators of wetland hydrology were also absent with the exception of minor surface soil cracks that were identified sporadically throughout. While this secondary indicator was present, samples recorded throughout this community did not meet wetland criteria for hydrology. Soil samples recorded within this community did not meet hydric soil criteria, had a matrix color of 2.5Y 5/3, and lacked redoximorphic features. Based on the lack of hydrophytic vegetation, indicators of wetland hydrology, and the presence of hydric soils, this community was determined to be upland habitat.

## 3.6 Jurisdictional Determination

As discussed previously, USACE is currently implementing pre-2015 regulations in conformance with the *Sackett v. EPA* decision. While regional standards and implementation methods for *Sackett v. EPA* conformance are not yet publicly available, Anchor QEA relied on its best professional judgment and anecdotal information from regulatory entities to assess jurisdiction consistent with these guidelines and standards.

The pre-2015 regulations, as documented by 33 *Code of Federal Regulations* (CFR) 328, established by 51 Federal Registry (FR) 41250, November 13, 1986, unless otherwise noted), indicates that waters of the United States include the following:

- 1. All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide
- 2. All interstate waters including interstate wetlands
- 3. All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce including any such waters:
  - a. Which are or could be used by interstate or foreign travelers for recreational or other purposes, or
  - b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce, or
  - c. Which are used or could be used for industrial purposes by industries in interstate commerce
- 4. All impoundments of waters otherwise defined as waters of the United States under this definition
- 5. Tributaries of waters identified in paragraphs (1) through (4) of this section
- 6. The territorial sea
- 7. Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (1) through (6) of this section

As a result of the *Sackett v. EPA* decisions, multiple changes to how the pre-2015 regulations are implemented are anticipated. Several feature types are no longer expected to categorically meet the regulatory definition of WOTUS. These include interstate wetlands and tributaries that are not relatively permanent, standing, or continuously flowing. In order for non-relatively permanent streams (i.e., ephemeral streams) to be considered a WOTUS, they must have a continuous surface connection to a WOTUS. The *Sackett v. EPA* decision is also expected to affect the operative definition of 'adjacent' for wetland features. According to the Supreme Court decision, adjacent wetlands must have a continuous surface connection with another WOTUS.

The only aquatic features identified during this site assessment included one PS feature (PS-1\*; Rio Grande River) and four distinct segments of an intermittent stream feature (IS-1a, IS-1b, IS-1c, IS-1d; Seco Creek). The stretch of PS-1\* that is located within the survey area is likely considered a traditionally navigable water (TNW). Although shallow, "ankle deep" segments of the Rio Grande are being evaluated in various court proceedings to determine if they are in fact navigable, it is

Anchor QEA's best professional judgment that within the survey boundary, PS-1 would likely be considered navigable by USACE. As such, PS-1\* could be considered a jurisdictional WOTUS, subject to both Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Seco Creek appears to function as a relatively permanent tributary to a TNW and, as such, could be considered a jurisdictional WOTUS subject to Section 404 of the Clean Water Act.

Other noteworthy features identified during the wetland delineation include two DFs (DF-1 and DF-2) and eight EFs (EF-1\*, EF-2, EF-3, EF-4, EF-5, EF-6, EF-7a, and EF-7b). DF-1 appears to be man-made and constructed as stormwater facilities. This feature appears to have been constructed entirely within upland habitat, drains only upland habitat, does not appear to be a relocated tributary, and does not convey a relatively permanent flow of water. According to applicable guidance, the agencies generally will not assert jurisdiction over "Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water" (USACE and EPA 2008). As such, it is Anchor QEA's best professional judgment that the DF-1 not be considered jurisdictional WOTUS nor subject to Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act

DF-2 appears man-made, but aerial imagery and historical topographic maps suggest that it may have been constructed from uplands to reroute ephemeral flow from a historic tributary. While this feature does not appear to convey a relatively permanent flow of water, it shares a continuous surface connection with Seco Creek (IS-1) and appears to function as an ephemeral tributary. As such, it is Anchor QEA's best professional judgment that DF-2 likely be considered a jurisdictional WOTUS subject to Section 404 of the Clean Water Act.

The eight EFs identified within the survey boundary do not appear to function as tributaries to a TNW and lack discernable indicators of OHWM. These features have likely formed as a result of surface runoff following precipitation events. According to applicable guidance, the agencies generally will not assert jurisdiction over swales or EFs (e.g., gullies or small washes characterized by low volume, infrequent, or short-duration flow) (USACE and EPA 2008). As such, it is Anchor QEA's best professional judgment that the eight EFs not be considered jurisdictional WOTUS nor subject to Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act.

# 4 Conclusion

This Wetland and Waters Delineation report summarizes the findings of Anchor QEA's May 2024 survey at the approximate 217-acre survey area. Determinations of jurisdictional status and jurisdictional limits herein are based on Anchor QEA's best professional judgment and are provided as an informational tool to support EIS preparation for the PVGTB project. The actual designation will rest with the USACE Fort Worth District, the final authority on jurisdictional status for aquatic features within the survey area. As detailed previously, Anchor QEA identified two stream features, two ditch features, and eight EFs across the survey area. No areas meeting the regulatory definition of wetlands were encountered during this effort. Although all site features, regardless of their likely jurisdictional status, will be accounted for during EIS preparation, it is Anchor QEA's best professional judgment that the Rio Grande River (PS-1\*), Seco Creek (IS-1a, IS-1b, IS-1c, and IS-1d), and DF-2 could be considered jurisdictional WOTUS. The Rio Grande River is anticipated to be subject to both Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act, whereas Seco Creek and DF-2 are anticipated to be subject only to Section 404 of the Clean Water Act. It is Anchor QEA's opinion that USACE is unlikely to assert jurisdiction over the remaining on-site ditch or EFs.

Table 4 provides a summary of the site features identified during the survey effort and includes their likely jurisdictional status.

Feature Name <sup>1</sup>	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Acreage/Linear Feet <sup>2</sup>	Feature Type	<u>Likely</u> Jurisdictional Status <sup>3</sup>
PS-1*	28.738396	-100.506641	0.37 acre/ 803 linear feet	Perennial stream (Rio Grande River)	Jurisdictional (Section 10/Section 404)
IS-1 (includes segments a through d)	Segment a: 28.739557 Segment b: 28.744651 Segment c: 28.745364 Segment d: 28.745896	Segment a: -100.503935 Segment b: -100.491664 Segment c: -100.490838 Segment d: -100.490117	2.04 acre/ 3,203 linear feet	Intermittent stream (Seco Creek)	Jurisdictional (Section 404)
DF-1	28.750670	-100.501918	1,087 linear feet	Non-RPW, man-made ditch feature	N/A

#### Table 4 Summary of On-Site Features

Feature Name <sup>1</sup>	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Acreage/Linear Feet <sup>2</sup>	Feature Type	<u>Likely</u> Jurisdictional Status <sup>3</sup>	
DF-2	28.743693	-100.494435	457 linear feet	Non-RPW, man-made ditch feature relocating a historic ephemeral tributary	Jurisdictional (Section 404)	
EF-1* 28.752433 -100.503104 418 linear feet directly connected an RPW		Erosional feature directly connected to an RPW	N/A			
EF-2	28.739073	-100.504293	255 linear feet	Erosional feature directly connected to an RPW	N/A	
EF-3	28.740173	-100.502890	246 linear feet	Erosional feature not connected to an RPW	N/A	
EF-4	28.740767	-100.500729	141 linear feet Erosional feature not connected to an RPW		N/A	
EF-5	28.741996	-100.497757	238 linear feet	Erosional feature not connected to an RPW	N/A	
EF-6	-6 28.743483 -100.493787 159 linear feet Erosional feature not connected to an RPW		N/A			
EF-7 (includes segments a and b)	Segment a: 28.744482 Segment b: 28.744104	Segment a: -100.493485 Segment b: -100.493375	263 linear feet	Segment a—erosional feature directly connected to an RPW; Segment b—erosional feature not connected to an RPW	N/A	

Notes:

1. An asterisk (\*) indicates that the feature could not be fully surveyed and mapped on site due to right-of-entry and/or safety concerns.

2. Stream features extend outside of the survey area boundary. Acreage and linear footage listed represents acreage positioned within the survey area. Erosional and ditch features did not exhibit an OHWM, and acreage was not determined. Only linear footage was established for these feature types.

3. Likely jurisdictional status is based on best professional judgment and currently implemented regulatory standards (namely the *Rapanos v. United States* regulations in conformance with *Sackett v. EPA*).

4. DF: drainage feature

ES: erosional feature

IS: intermittent stream

N/A: not applicable; non-jurisdictional

PS: perennial stream

RPW: relatively permanent water

## **5** References

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# Figures



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Figure 1 Vicinity Map Wetlands and Waters Delineation Report Puerto Verde Global Trade Bridge Project



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Figure 2 Project Location Map

Wetlands and Waters Delineation Report Puerto Verde Global Trade Bridge Project



#### LEGEND:

#### Survey Area

- Perennial Stream (Likely Jurisdictional)
- Intermittent Stream (Likely Jurisdictional)
- Erosional Feature (Likely Non-Jurisdictional)
- Ditch Feature (Likely Non-Jurisdictional)
- Ditch Feature (Likely Jurisdictional)
- --- Ordinary High Water Mark (Jurisdictional Limit)
- --- Survey Transect
- Sample Point

NOTES:

 Basemap: Drone imagery recorded by Anchor QEA on May 22, 2024; National Agriculture Imagery Program (NAIP) 2022 60 centimeter imagery, Maverick County, Texas.
 Horizontal Datum: North American Datum of 1983 State Plane South Central (U.S. Foot)
 All delineation results are preliminary and based on best professional judgement. Survey results have not been verified by the U.S. Army Corps of Engineer.
 An asterisk (\*) in a feature name indicates that a feature could not be fully delineated onsite based on right-of-entry or safety concerns. The boundary of these features were determined based on a combination of field data and desktop resources.
 For planning and permitting purposes only. Not for construction. EF: erosional feature DF: drainage feature IS: intermittent stream NAIP: National Agriculture Imagery Program PS: perennial stream



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#### Figure 3 Survey Overview Map

Wetlands and Waters Delineation Report Puerto Verde Global Trade Bridge Project



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Figure 4 Habitat Overview Map

Wetlands and Waters Delineation Report Puerto Verde Global Trade Bridge Project Appendix A Wetland Data Sheets

#### WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: PVGTB - PVH	City/County: Eagle Pas	s/Maverick County	Sampling Date: 20	24-05-22			
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: AS	SP01			
Investigator(s): AP, NA	Section, Township, Ran	ge: N/A					
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%			(%): 3			
Subregion (LRR): 183B Lat: 28	.743712	Long: -100.494834	Datum:	NAD83_2011			
Soil Map Unit Name: PrB - Pryor clay loam, 1 to 3 percent slo	pes	NWI classific	ation:				
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No	✓ (If no, explain in R	emarks.)				
Are Vegetation, Soil, or Hydrology significantly	v disturbed? Are "N	Normal Circumstances" p	oresent?Yes 🖌	No			
Are Vegetation, Soil, or Hydrology naturally pre-	oblematic? (If nee	eded, explain any answe	rs in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing	UMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						

Hydrophytic Vegetation Present?       Yes       No _ ✓       Is the Sampled Area         Hydric Soil Present?       Yes       No _ ✓       within a Wetland?       Yes       No _ ✓         Wetland Hydrology Present?       Yes       No _ ✓       Ves       No _ ✓       Yes       No _ ✓
---

Remarks:

Sample point recorded slightly outside of the survey area to assess conditions that appear similar to portions of the property where right-of-entry could not be obtained. Sample point recorded at a higher elevation than the adjacent Seco Creek stream bed. Sample point determined to be located within scrub-shrub uplands.

#### **VEGETATION – Use scientific names of plants.**

00 ()	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species
1. Prosopis glandulosa	20	✓	FACU	That Are OBL, FACW, or FAC
2				(excluding FAC-): 0 (A)
3				Total Number of Dominant
4.				Species Across All Strata: <u>3</u> (B)
	20	= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: 0.00 (A/B)
1. Prosopis glandulosa	15	$\checkmark$	FACU	
2.				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
о	·			OBL species 0 x 1 = 0
4				FACW species $0$ x 2 = $0$
o	15			FAC species $0   x 3 = 0$
Herb Stratum (Plot size: 5 ft r )	15	= Total Cov	/er	FACU species $55 \times 4 = 220$
1 Cenchrus ciliaris	75	$\checkmark$	UPL	$\frac{1100}{100} \text{ species}  \frac{80}{100}  spe$
0. Opuntia stricta	10		EACU	Column Totolo: $135$ (A) $620$ (B)
2. Drosonis glandulosa	10			$\begin{array}{c} \text{Column rotals.} \\ \hline \begin{array}{c} 100 \\ \hline \end{array} \\ \hline \end{array} \\ (A) \\ \hline \begin{array}{c} 020 \\ \hline \end{array} \\ (B) \\ \hline \end{array}$
	<u> </u>		FACU	Prevalence Index = $B/A = 4.59$
	5		UPL	Hydrophytic Vegetation Indicators:
5				1 - Panid Test for Hydronbytic Vegetation
6				2 Deminence Test in >50%
7				
8				3 - Prevalence Index is ≤3.0
9				4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	100	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		= Total Cov	/er	Vegetation
% Bare Ground in Herb Stratum				Present? Yes <u>No Y</u>
Remarks:				
Hydrophytic vegetation was not don	ninant a	at this s	ample	point.

US Army Corps of Engineers

SO	L
----	---

Depth	Matrix		Redux realures			
(inches)	Color (moist)	<u>%</u> (	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 12	2.5Y 5/3	100			Silty Clay	
-						
-						
-						
-						
-						
_						
17					21 + :-	DI Dese Lizier M Metric
Type: C=Co	oncentration, D=Dep	eletion, RM=Rec	duced Matrix, CS=Covered or Coate	ed Sand G	rains. <sup>2</sup> Locatio	Dr: PL=Pore Lining, M=Matrix.
		able to all LRP	s, unless otherwise noted.)		indicators for	
Histosol	(A1)		Sandy Gleyed Matrix (S4)		1 cm Muc	
HISTIC Ep	stic (A2)		Sandy Redox (S5)		Coast Pra	Ine Redox (A16) (LRR F, G, H)
	siic (A3) In Sulfide (Δ4)		Loamy Mucky Mineral (E1)		Dark Suna High Plain	s Depressions (E16)
Stratified	l avers (A5) (LRR I	F)	Loamy Gleved Matrix (F2)		(LRR H	l outside of MLRA 72 & 73)
1 cm Mu	ick (A9) (LRR F. G.	H)	Depleted Matrix (F3)		Reduced	√ertic (F18)
Depleted	Below Dark Surfac	e (A11)	Redox Dark Surface (F6)		Red Parer	nt Material (TF2)
Thick Da	ark Surface (A12)		Depleted Dark Surface (F7	)	Very Shal	ow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox Depressions (F8)		Other (Ex	plain in Remarks)
2.5 cm N	/lucky Peat or Peat (	S2) (LRR G, H	) High Plains Depressions (F	16)	<sup>3</sup> Indicators of h	ydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR F</b> )	(MLRA 72 & 73 of LRF	2 <b>H</b> )	wetland hy	drology must be present,
					unless dis	turbed or problematic.
Restrictive L	_ayer (if present):					
Type: Cla	ay		-			<i>,</i>
Depth (inc	ches): 12		_		Hydric Soil Pre	esent? Yes No _✓
Remarks:						
					1	
Hydric soi	il components v	were not ob	served at this sample poin	t. A har	d clay layer w	as encountered at 12 inche
Hydric soi below the	il components v soil surface.	were not ob	served at this sample poin	t. A har	d clay layer w	as encountered at 12 inche
Hydric soi below the	il components v soil surface.	were not ob	served at this sample poin	t. A har	d clay layer w	as encountered at 12 inche
Hydric soi below the <b>IYDROLO</b>	il components v soil surface. GY	were not ob	eserved at this sample poin	t. A har	d clay layer w	as encountered at 12 inche
Hydric soi below the IYDROLO Wetland Hyd	il components v soil surface. GY drology Indicators:	were not ob	eserved at this sample poin	t. A har	d clay layer w	as encountered at 12 inche
Hydric soi below the HYDROLO Wetland Hyd Primary Indic	il components v soil surface. GY drology Indicators: cators (minimum of c	were not ob	eck all that apply)	t. A har	d clay layer w <u>Secondary l</u>	as encountered at 12 inche
Hydric soi below the HYDROLO Wetland Hyo Primary Indic Surface	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1)	were not ob	eserved at this sample poin	t. A har	d clay layer w <u>Secondary l</u> <u>√</u> Surface	as encountered at 12 inche ndicators (minimum of two required)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ter Table (A2)	were not ob	eserved at this sample poin heck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13)	t. A har	d clay layer w <u>Secondary l</u> <u>✓</u> Surface Sparse	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) tter Table (A2) on (A3)	were not ob	eserved at this sample poin neck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	t. A har	d clay layer w <u>Secondary l</u> Surface Sparsel Drainag	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water Ma	il components v soil surface. GY drology Indicators: eators (minimum of c Water (A1) tter Table (A2) on (A3) arks (B1)	were not ob	eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	t. A har	d clay layer w Secondary I ✓ Surface Sparsel Drainag Oxidize	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimen	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) tter Table (A2) on (A3) larks (B1) nt Deposits (B2)	were not ob	eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv	t. A har	d clay layer w <u>Secondary I</u> ✓ Surface Sparsel Drainag Oxidize (C3) (when	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled)
Hydric soi below the HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) tter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	were not ob	neck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled)	t. A har	d clay layer w <u>Secondary l</u> √ Surface Sparsel Oxidize (C3) (when Crayfisl	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8)
Hydric soi below the HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water Ma Sedimen Drift Dep Algal Ma	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	were not ob	eserved at this sample poin heck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C-	t. A har	d clay layer w <u>Secondary l</u> √ Surface _ Sparsel _ Drainag (C3) (when _ Crayfisl _ Saturat	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) on Visible on Aerial Imagery (C9)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M. Sedimen Drift Dep Algal Ma Iron Dep	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	were not ob	eserved at this sample poin eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C- Thin Muck Surface (C7)	t. A har	d clay layer w <u>Secondary l</u> ✓ Surface Sparsel Drainag Oxidize (C3) (when Crayfisl Saturat Geomo	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) pe Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface ' High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial I	were not ob	eserved at this sample poin eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C- Thin Muck Surface (C7) Other (Explain in Remarks)	t. A har	d clay layer w <u>Secondary</u> ✓ Surface Sparsel Drainag Oxidize (C3) (when Crayfisl Saturat Geomo FAC-Ne	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial I tained Leaves (B9)	were not ob	eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	t. A har	d clay layer w <u>Secondary I</u> ✓ Surface Sparsel Oxidize (C3) (when Crayfisl Geomo FAC-Ne Frost-H	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) on Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
Hydric soi below the HYDROLO Wetland Hyd Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) tter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial I tained Leaves (B9) vations:	were not ob	eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C- Thin Muck Surface (C7) Other (Explain in Remarks)	t. A har	d clay layer w <u>Secondary l</u> √ Surface Sparsel Oxidize (C3) (when Crayfisl Saturat Geomo FAC-Ne Frost-H	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
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Hydric soi below the HYDROLO Wetland Hyd Primary Indic Surface ' High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ Surface Wate Water Table	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1) ht Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Vis ble on Aerial I tained Leaves (B9) vations: er Present? Y Present? Y	were not ob	eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C- Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches):	t. A har	d clay layer w <u>Secondary I</u> √ Surface Sparsel Drainag Oxidize (C3) (when Crayfisl Saturat Geomo FAC-Ne Frost-H	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface ' High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ Surface Wate Vater Table	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial I tained Leaves (B9) vations: er Present? Y Present? Y	were not ob	eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Liv (where not tilled) Presence of Reduced Iron (C- Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	t. A har	d clay layer w <u>Secondary l</u> ✓ Surface Sparsel Drainag Oxidize (C3) (when Crayfisl Saturat Geomo FAC-Ne Frost-H	as encountered at 12 inche ndicators (minimum of two required) Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) fon Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F)
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Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface ' High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ Surface Wate Saturation Pr (includes cap Describe Rec According to the Remarks:	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial I tained Leaves (B9) vations: er Present? Y Present? Y resent? Y resent? Y present? Y usACE's APT, the surve	were not ob	eserved at this sample poin         neck all that apply)	t. A har	d clay layer w <u>Secondary I</u> √ Surface Sparsel Oxidize (C3) (when Crayfisl Crayfisl Saturat Geomo FAC-Ne Frost-H	as encountered at 12 inche ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) on Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F) resent? Yes No by were recorded with this condition in mind
Hydric soi below the HYDROLO Wetland Hyc Primary Indic Surface ' High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ Surface Wate Vater Table Saturation Pr (includes cap Describe Rec According to the Remarks: Surface Soi	il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Vis ble on Aerial I tained Leaves (B9) vations: er Present? Present? Present? Present? Y resent? Surface Surface Surve corded Data (stream cusACE's APT, the surve	were not ob	eserved at this sample poin         neck all that apply)	t. A har	d clay layer w <u>Secondary I</u> √ Surface Sparsel Drainag Oxidize (C3) (when Crayfisl Saturat Geomo FAC-Ne Frost-H land Hydrology Pr if available: ors of wetland hydrology cks (B6) are cla	as encountered at 12 inche ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) eave Hummocks (D7) (LRR F) resent? Yes No gy were recorded with this condition in mind ssified as a secondary wetlar

#### ASP01



#### WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: PVGTB - PVH	City/County: Ea	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05-22					
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: ASP02				
Investigator(s): AP, NA	Section, Townsl	Section, Township, Range: <u>N/A</u>					
Landform (hillslope, terrace, etc.): Upland	Local relief (cor	ncave, convex, none): Undulat	ting Slope (%): 10				
Subregion (LRR): 183B	Lat: 28.743697	Long: <u>-100.493743</u>	Datum: NAD83_2011				
Soil Map Unit Name: PrB - Pryor clay loam, 1 to 3 per	cent slopes	NWI classifie	cation:				
Are climatic / hydrologic conditions on the site typical for this	time of year? Yes	No 🧹 (If no, explain in F	Remarks.)				
Are Vegetation, Soil, or Hydrologys	ignificantly disturbed?	Are "Normal Circumstances"	present? Yes 🖌 No				
Are Vegetation, Soil, or Hydrologyn	aturally problematic?	(If needed, explain any answe	ers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No	o Is the Sa	ampled Area					

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>✓</u> No <u>✓</u> No <u>✓</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					
<b>a</b>					

Sample point recorded in scrub-shrub upland habitat adjacent to an unimproved road. Minor evidence of erosion was observed in the vicinity but area is otherwise comprised of upland habitat.

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 It I )	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. Prosopis glandulosa	25	✓	FACU	That Are OBL, FACW, or FAC $(a)$
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>5</u> (B)
	25	= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )		,		That Are OBL, FACW, or FAC: 0.00 (A/B)
1. Acacia rigidula	10	✓	UPL	Provolonoo Indox workshooti
2				
3				
4				$\begin{array}{c} \text{OBL species}  \underline{0} \\ \hline \end{array}  x = \underline{0} \\ \hline \end{array}$
5				FACW species $0$ $x 2 = 0$
	10	= Total Cov	/er	FAC species $0$ $x^3 = 0$
Herb Stratum (Plot size: 5 ft r )				FACU species $50$ x 4 = $200$
1. Opuntia stricta	25	✓	FACU	UPL species <u>50</u> x 5 = <u>250</u>
2. Ratibida columnifera	20	$\checkmark$	UPL	Column Totals: <u>100</u> (A) <u>450</u> (B)
3. Cenchrus ciliaris	20	$\checkmark$	UPL	450
4				Prevalence Index = B/A = 4.50
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				$\_$ 3 - Prevalence Index is $\leq 3.0^1$
9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	65	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		= Total Cov	/er	Vegetation
% Bare Ground in Herb Stratum				Present? Yes No Y
Remarks:				
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.

S	Ο	I	L
•	•		_

Depth	Matrix		Redo	x Feature	S			_
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 12	2.5Y 5/3	100					Clay	
-								
							. <u> </u>	
-								
-								
							·	
-								
-				<u> </u>			<u> </u>	
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=Re	educed Matrix, CS	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LR	Rs, unless othe	rwise not	ed.)		Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy (	Gleved Ma	trix (S4)		1 cm Mu	uck (A9) (LRR I, J)
Histic E	pipedon (A2)		Sandy F	Redox (S5	)		Coast P	rairie Redox (A16) (LRR F, G, H)
Black H	istic (A3)		Stripped	d Matrix (S	ý 6)		Dark Su	rface (S7) (LRR G)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mir	neral (F1)		High Pla	ins Depressions (F16)
Stratifie	d Layers (A5) (LRR	F)	Loamy	Gleyed Ma	atrix (F2)		(LRR	Houtside of MLRA 72 & 73)
1 cm Mi	uck (A9) (LRR F, G,	H)	Deplete	d Matrix (	F3)		Reduce	d Vertic (F18)
Deplete	d Below Dark Surfa	ce (A11)	Redox I	Dark Surfa	ice (F6)		Red Par	ent Material (TF2)
Thick D	ark Surface (A12)		Deplete	d Dark Su	rface (F7)		Very Sh	allow Dark Surface (TF12)
Sandy M	/lucky Mineral (S1)		Redox I	Depressio	ns (F8)		Other (E	xplain in Remarks)
2.5 cm l	Mucky Peat or Peat	(S2) ( <b>LRR G, I</b>	l) High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators o	f hydrophytic vegetation and
5 cm Mi	ucky Peat or Peat (S	63) ( <b>LRR F</b> )	(ML	RA 72 & 1	73 of LRR	H)	wetland	hydrology must be present,
							unless d	listurbed or problematic.
Restrictive	Layer (if present):							
Type: C	ау		_					
Depth (in	ches): <u>12</u>						Hydric Soil P	Present? Yes <u>No </u>
Remarks:								
Hydric so	il characteristi	s were not	observed at	this sa	mnle na	oint Δ h	ard clay lave	er was encounter at 12 inches
holow the					inpic p	////	iara olay laye	
	son surrace.							
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one required: c	heck all that appl	V)			Secondar	v Indicators (minimum of two required)
Surface	Water (A1)	<u></u>	Salt Crust				✓ Surfa	ce Soil Cracks (B6)
	valer (A1)			(DTT)	o (P12)		<u>·</u> Suna	volu Vegetated Conceve Surface (P8)
Filgh Wa	alei Table ( $A_2$ )				S(D13)		Opais	ago Dottorno (P10)
							Draini	age Patterns (BTU)
water w			Dry-Seaso	on water i	able (C2)			2ed Rhizospheres on Living Roots (C3)
Sedime	nt Deposits (B2)			Rnizosphe	res on Liv	ing Roots	(C3) (wh	ere tilled)
Drift De	posits (B3)		(where	not tilled)			Crayf	ish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduce	ed Iron (C4	-)	Satur	ation Visible on Aerial Imagery (C9)
Iron De	posits (B5)		Thin Muck	Surface (	C7)		Geom	norphic Position (D2)
Inundati	on Vis ble on Aerial	Imagery (B7)	Other (Exp	plain in Re	marks)		FAC-I	Neutral Test (D5)
Water-S	tained Leaves (B9)						Frost-	Heave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	er Present?	Yes No	Depth (in	ches):		_		
Water Table	Present?	Yes No	✓ Depth (in	ches):				
Saturation P	resent?	Yes No	✓ Denth (in	ches).		Wet	land Hydrology	Present? Yes No √
(includes ca	pillary fringe)	NO NO		ones). <u> </u>		_ ///	and nyurology	
Describe Re	corded Data (stream	n gauge, monit	oring well, aerial	photos, pr	evious ins	pections),	, if available:	
According to th	e USACE's APT, the surv	ey area is experier	icing slightly drier that	an normal cli	matic condit	ions. Indicat	ors of wetland hydro	logy were recorded with this condition in mind.
Remarks								
						• • •		
Surface So	oli Cracks (B6) w	ere observe	d at this samp	le point.	Surface	Soil Cra	icks (B6) are c	lassified as a secondary wetland

#### ASP02



#### WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: PVGTB - PVH	City/County: Eagle P	ass/Maverick County Sam	npling Date: 2024-05-22			
Applicant/Owner: Purto Verde Holdings		State: Texas Sam	npling Point: ASP03			
Investigator(s): AP, NA	Section, Township, R	ange: N/A				
Landform (hillslope, terrace, etc.): Flat	Local relief (concave	, convex, none): None	Slope (%): <u>3</u>			
Subregion (LRR): I 83B	Lat: 28.745869	Long: -100.490230	Datum: <u>NAD83_2011</u>			
Soil Map Unit Name: CAB - Catarina clay, association, 0 to 5 percent slopes NWI classification: R4SBC						
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes No	✓ (If no, explain in Remar	rks.)			
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are	"Normal Circumstances" presei	nt? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If r	needed, explain any answers in I	Remarks.)			
SUMMARY OF FINDINGS - Attach site	e map showing sampling point	locations, transects, im	portant features, etc.			
Hydrophytic Vegetation Present? Yes	✓ No In the Semple					
Hydric Soil Present? Yes	No <u>v</u> within a Wetla	u Area	No 🗸			
Wetland Hydrology Present? Yes	No <u></u>	Ind: 103				
Remarks:						
This sample point was recorded to sh	now an upland area atop the ba	nk of Seco Creek. This a	area is			

characterized by flat ground and herbaceous vegetation.

#### **VEGETATION – Use scientific names of plants.**

20.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC $(a)$
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
15 64		= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )	40	,	540	That Are OBL, FACW, or FAC: <u>66.66</u> (A/B)
1. Parkinsonia aculeata	10	✓	FAC	Brovalonco Index workshoot:
2				
3				
4				OBL species $0$ $x = 0$
5				FACW species $0$ $x 2 = 0$
	10	= Total Cov	/er	FAC species $50$ x 3 = $150$
Herb Stratum (Plot size: 5 ft r)				FACU species $50$ x 4 = $200$
1. Xanthium strumarium	40	✓	FAC	UPL species <u>0</u> x 5 = <u>0</u>
2. Cynodon dactylon	40	✓	FACU	Column Totals: <u>100</u> (A) <u>350</u> (B)
3. Sorghum halepense	10		FACU	5
4				Prevalence Index = B/A =
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				✓ 2 - Dominance Test is >50%
8				$\_$ 3 - Prevalence Index is $\leq 3.0^1$
9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
00 f	90	= Total Cov	/er	( , , , , , , , , , , , , , , , ,
Woody Vine Stratum (Plot size: 30 ft r )				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				
2				Hydrophytic
% Bare Ground in Herb Stratum		= Total Cov	ver	Present? Yes <u>✓</u> No
Remarks:				
Ludrophytic vocatation was domine	nt at th	io oomr		.+
Hydrophytic vegetation was domina	int at th	is samp	ne poir	II.

Denth	Matrix	e to the depth	Redo	x Feature	s	or conntr	n the absence	or multators.		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0 - 14	2.5Y 6/3	100					Clay			
-										
							·			
-										
-					_					
-										
-										
							·			
17			Andread Matrix Of				21			
Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, CS	S=Covere	ed or Coate	d Sand G	rains. <sup>2</sup> Loc	tation: PL=Pore Lining, M=Matrix.		
Histosol			Sandy (		(S4)					
Histic Fr	(AT) Dipedon (A2)		Sandy F	Sedox (S	auix (34) 5)		1 CIII IV	Prairie Redox (A16) (I RR F G H)		
Black Hi	stic (A3)		Stripped	d Matrix (	S6)		Dark S	Surface (S7) (LRR $\mathbf{G}$ )		
Hydroge	en Sulfide (A4)		Loamy I	Mucky Mi	neral (F1)		High P	lains Depressions (F16)		
Stratified	d Layers (A5) (LRR	<b>F</b> )	Loamy	Gleyed M	atrix (F2)		(LR	R H outside of MLRA 72 & 73)		
1 cm Mu	ick (A9) (LRR F, G	, <b>H</b> )	Deplete	d Matrix (	(F3)		Reduce	ed Vertic (F18)		
Deplete	d Below Dark Surfa	ce (A11)	Redox [	Dark Surf	ace (F6)		Red Pa	arent Material (TF2)		
Thick Da	ark Surface (A12)		Deplete	d Dark S	urface (F7)		Very S	hallow Dark Surface (TF12)		
Sandy N	lucky Mineral (S1)	(S2) (I PP C	Ligh Di	Jepressio	DNS (F8)	16)	<u> </u>	Explain in Remarks)		
2.5 cm Mi	icky Peat or Peat (	(32) (LRR F)	(ML	RA 72 &	73 of LRR	H)	wetland hydrology must be present			
		,	(			)	unless	disturbed or problematic.		
Restrictive	Layer (if present):							·		
<sub>Type:</sub> Ha	ard clay									
Depth (in	ches): <u>14</u>						Hydric Soil	Present? Yes No _✓		
Remarks:										
Lludria a	oil compond	onto wor	not obcor	und at	thic c	molo	noint			
nyunc s	on compone	ents were	e not observ	eu al		ampie	point.			
	<u></u>									
HYDROLO	GY									
Wetland Hy	drology Indicators	5:								
Primary India	cators (minimum of	one required;	check all that appl	y)			<u>Seconda</u>	ary Indicators (minimum of two required)		
Surface	Water (A1)		Salt Crust	(B11)			Surfa	ace Soil Cracks (B6)		
High Wa	ater Table (A2)		Aquatic In	vertebrate	es (B13)		Spai	rsely Vegetated Concave Surface (B8)		
Saturatio	on (A3)		Hydrogen	Sulfide C	dor (C1)		Drai	nage Patterns (B10)		
Water N	larks (B1)		Dry-Seaso	on Water	Table (C2)		Oxid	lized Rhizospheres on Living Roots (C3)		
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphe	eres on Liv	ing Roots	(C3) (w	here tilled)		
Drift Dep	bosits (B3)		(where i	not tilled	)		Cray	/fish Burrows (C8)		
Algal Ma	at or Crust (B4)		Presence	of Reduc	ed Iron (C <sup>2</sup>	+)	Satu	Iration Visible on Aerial Imagery (C9)		
Iron Dep	OSITS (B5)				(C7)		Geo			
Inundati	tained Leaves (PO)	I Imagery (B7)	Other (Exp	biain in Re	emarks)		FAC	-Neutral Test (D5)		
Water-S	tained Leaves (B9)						FI0S			
	valions:	Vee		ah a a `r						
Surrace Wat	er Present?	res No	Deptn (in	cnes):		-				
vvater Table	Present?	resN	Depth (in	cnes):		-				
Saturation P	resent?	Yes No	o <u>✓</u> Depth (in	ches):		Wet	and Hydrology	y Present? Yes No _✓		
Describe Re	corded Data (stream	m gauge, mon	itoring well, aerial i	photos, p	revious ins	pections).	if available:			
According to the	USACE's APT, the surv	vey area is experie	encing slightly drier that	in normal cl	imatic condit	ions. Indicat	ors of wetland hydr	rology were recorded with this condition in mind.		

Wetland hydrology was not observed at this sample point.
### ASP03



Project/Site: PVGTB - PVH	City/County: Eagle Page	ss/Maverick County	Sampling Date: 2024-05-	22
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: ASP04	
Investigator(s): AP, NA	Section, Township, Rar	nge: N/A		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, c	convex, none): Concave	e Slope (%): <u>15</u>	
Subregion (LRR): 183B Lat: 28	.738712	Long: -100.504737	Datum: NAD83_	2011
Soil Map Unit Name: Rz - Rio Grande and Zalla soils, frequent	ly flooded	NWI classific	ation:	
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes No	✓ (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	disturbed? Are "	Normal Circumstances" p	oresent? Yes 🖌 No 🔤	
Are Vegetation, Soil, or Hydrology naturally pro	oblematic? (If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing	sampling point lo	ocations, transects	, important features, e	tc.

Hydrophytic Vegetation Present?       Yes       No _ ✓       Is the Sampled Area         Hydric Soil Present?       Yes       No _ ✓       within a Wetland?       Yes       No _ ✓         Wetland Hydrology Present?       Yes       No _ ✓       Ves       No _ ✓       Yes       No _ ✓
---

Remarks:

This sample point was recorded to represent an upland area dominated by grasses within Mesquite dominated wooded uplands. Sample point located within a depressional landform but does not exhibit wetland conditions or any continuous surface connection to the surface tributary system. This sample point was recorded to verify this as an upland area.

00 ft -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Prosopis glandulosa	30	✓	FACU	That Are OBL, FACW, or FAC
2				(excluding FAC-): (A)
3				Total Number of Dominant
4				Species Across All Strata: <u>4</u> (B)
	30	= Total Cov	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: $0.00$ (A/B)
1. Prosopis glandulosa	15	✓	FACU	
2. Vachellia farnesiana	5	✓	FACU	Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4				OBL species <u>0</u> x 1 = <u>0</u>
5				FACW species $0   x 2 = 0$
	20	- Total Ca		FAC species $5   x 3 = 15$
Herb Stratum (Plot size: 5 ft r )	20	- 10tal C0		FACU species 50 $x_{4} = 200$
1 Bothriochloa ischaemum	75	$\checkmark$	UPL	UPL species $75 \times 5 = 375$
2. Panicum virgatum	5		FAC	Column Totals: 130 (A) 590 (B)
3				
о				Prevalence Index = B/A = 4.53
				Hydrophytic Vegetation Indicators:
o				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				$3 - Prevalence Index is \le 3.0^1$
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
20.4 -	80	= Total Cov	ver	1
Woody Vine Stratum (Plot size: 30 ft r )				Indicators of hydric soil and wetland hydrology must
1				
2				Hydrophytic
		= Total Cov	ver	Vegetation Present? Ves No ✓
% Bare Ground in Herb Stratum				
Remarks:				
Hydrophytic vegetation was not don	ninant a	at this s	ample	point.

Depth	cription: (Describe Matriv	to the depth nee	Redr	ment the in	naicator (	or confirm	i the absence (	or indicators.)
(inches)	Color (moist)	<u>%</u> Co	olor (moist)	<u>%</u>		Loc <sup>2</sup>	Texture	Remarks
0 - 10	2.5Y 5/3	100					Silty Clay	
-								
-								
-								
-								
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM=Redu	ced Matrix, C	S=Covered	l or Coate	d Sand Gr	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LRRs	, unless othe	rwise note	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	I (A1)		Sandy	Gleyed Ma	trix (S4)		1 cm M	uck (A9) ( <b>LRR I, J</b> )
Histic E	pipedon (A2)		Sandy	Redox (S5)	)		Coast F	Prairie Redox (A16) ( <b>LRR F, G, H</b> )
Black H	nstic (A3)		Strippe	u iviatrix (S Mucky Min	0) oral (E1)		Dark Si	ainace (S7) (LRR G)
Nyuruge Stratifie	d Lavers (A5) (I RR	F)		Gleved Ma	rix (F2)		(I RI	R H outside of MI RA 72 & 73)
1 cm M	uck (A9) (LRR F. G.	H)	Deplete	ed Matrix (F	-3)		Reduce	ed Vertic (F18)
Deplete	d Below Dark Surfac	é (A11)	Redox	Dark Surfa	ce (F6)		Red Pa	rent Material (TF2)
Thick D	ark Surface (A12)		Deplete	ed Dark Su	rface (F7)		Very Sł	nallow Dark Surface (TF12)
Sandy M	Mucky Mineral (S1)		Redox	Depressior	ns (F8)		Other (	Explain in Remarks)
2.5 cm l	Mucky Peat or Peat (	(S2) (LRR G, H)	High Pl	ains Depre	ssions (F	16)	Indicators o	of hydrophytic vegetation and
5 cm IVI	ucky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	.RA /2 & /	3 OF LRR	H)	wetiand	nydrology must be present, disturbed or problematic
Restrictive	Laver (if present):						uness	disturbed of problematic.
Type:								
Depth (in	iches):						Hydric Soil	Present? Yes No ✔
Remarks:	,						-	
l ludria a	ail abaraatar	istics word	not obo	anvad	at thia		la naint	
пуанс s	son character	istics were	e not obs	erveu	attins	samp	ie point.	
HYDROLO	)GY							
Wetland Hy	drology Indicators:							
Primary Indi	cators (minimum of c	one required: che	ck all that app	V)			Seconda	ry Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surfa	ace Soil Cracks (B6)
High Wa	ater Table (A2)	-	Aquatic In	vertebrates	s (B13)		Spar	selv Vegetated Concave Surface (B8)
Saturati	ion (A3)	-	Hydrogen	Sulfide Oc	lor (C1)		Drair	nage Patterns (B10)
Water M	/larks (B1)	-	Dry-Sease	on Water T	able (C2)		Oxid	ized Rhizospheres on Living Roots (C3
Sedime	nt Deposits (B2)		Oxidized I	Rhizospher	es on Livi	ing Roots	(C3) (wi	here tilled)
Drift De	posits (B3)		(where	not tilled)		-	Cray	fish Burrows (C8)
Algal Ma	at or Crust (B4)	-	Presence	of Reduce	d Iron (C4	+)	Satu	ration Visible on Aerial Imagery (C9)
Iron De	posits (B5)	-	Thin Mucł	surface (	C7)		Geor	morphic Position (D2)
Inundati	ion Vis ble on Aerial	Imagery (B7)	Other (Ex	plain in Re	marks)		FAC	-Neutral Test (D5)
Water-S	Stained Leaves (B9)						Frost	t-Heave Hummocks (D7) (LRR F)
Field Obser	rvations:							
Surface Wat	ter Present? Y	′es No	Depth (in	ches):		_		
Water Table	Present? Y	′es No	🖊 Depth (in	ches):		_		
Saturation P (includes ca	Present? Y pillary fringe)	′es No	Depth (in	ches):		Wetl	and Hydrology	Present? Yes No _✓
Describe Re	corded Data (stream	ı gauge, monitorir	ng well, aerial	photos, pre	evious ins	pections),	if available:	
According to th	e USACE's APT, the surve	ey area is experiencin	g slightly drier th	an normal clin	natic conditi	ions. Indicato	ors of wetland hydr	ology were recorded with this condition in mind.
Remarks:								

Wetland hydrology was not observed at this sample point.



Project/Site: PVGTB - PVH	City/County: E	Eagle Pass/Maverick County	Sampling I	Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling I	Point: ASP05
Investigator(s): AP, NA	Section, Town	ship, Range: <u>N/A</u>		
Landform (hillslope, terrace, etc.): Depression	Local relief (c	oncave, convex, none): <u>Conca</u>	ve	Slope (%): <u>10</u>
Subregion (LRR): 183B Lat: 28	3.740704	Long: -100.50036	8	_ Datum: NAD83_2011
Soil Map Unit Name: MKC - Maverick association, undulating	)	NWI classi	fication:	
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes	No 🧹 (If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology significantly	y disturbed?	Are "Normal Circumstances	" present? Y	es 🖌 No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed, explain any answ	vers in Remar	rks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling	point locations, transec	ts, importa	ant features, etc.
Hydrophytic Vegetation Present? Yes <u>Ves</u> No	Is the	Sampled Area		

Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No	within a Wetland?	Yes	No 🖌
Remarks:				

This sample point was recorded to document a shallow depressional area with erosional features in the vicinity. An erosional feature was recorded exiting the shallow depressional area leading towards Seco Creek. This feature was severed by the unimproved road that travels along Seco Creek.

00 (1	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species
1. Celtis occidentalis	40	✓	FACU	That Are OBL, FACW, or FAC
2. Fraxinus berlandieriana	40	✓	FAC	(excluding FAC-): I (A)
3.				Total Number of Dominant
4				Species Across All Strata: 3 (B)
- T	80	- Total Ca		
Sapling/Shrub Stratum (Plot size: 15 ft r )	00		er	Percent of Dominant Species
1 Diospyros texana	20	$\checkmark$	UPL	$\frac{11111}{1111} = \frac{11111}{1111} = \frac{11111}{1111} = \frac{11111}{1111} = \frac{11111}{1111} = \frac{11111}{1111} = \frac{111111}{1111} = \frac{111111}{1111} = \frac{111111}{1111} = \frac{111111}{1111} = \frac{1111111}{11111} = \frac{11111111}{111111} = \frac{111111111}{11111111111111111111111111$
2				Prevalence Index worksheet:
2		<u> </u>	·	Total % Cover of: Multiply by:
3		<u> </u>	·	OBL species $0$ $x = 0$
4				$EACW(species 0 x^2 = 0)$
5				$\frac{1}{2} = \frac{1}{2}$
- 4	20	= Total Cov	ver	FAC species $\frac{40}{10}$ $x_3 = \frac{120}{100}$
Herb Stratum (Plot size: 5 ft r )				FACU species $\frac{40}{20}$ x 4 = $\frac{100}{100}$
1				UPL species $20$ x 5 = $100$
2				Column Totals: <u>100</u> (A) <u>380</u> (B)
3				2.80
4.				Prevalence Index = B/A = 3.80
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
7				3 - Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
00 (		= Total Cov	ver	
Woody Vine Stratum (Plot size: 30 ft r )				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed of problematic.
2				Hydrophytic
		= Total Cov	ver	Vegetation
% Bare Ground in Herb Stratum				Present? Yes <u>V</u> No
Remarks:				
Hydrophytic vegetation was domina	nt at th	is samp	ole poin	ıt.

Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Lo	DC <sup>2</sup> Texture	Remarks
<u>0 - 10</u> 2.5Y 5/3 100		Silty Clay	
0 - 6		Clay	
-			
<sup>1</sup> Type: C=Concentration D=Depletion RM=	Reduced Matrix CS=Covered or Coated Sa	and Grains <sup>2</sup> Loc	ation: PI =Pore Lining M=Matrix
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators	or Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleved Matrix (S4)	1 cm M	uck (A9) ( <b>LRR I. J</b> )
Histic Epipedon (A2)	Sandy Redox (S5)	Coast F	Prairie Redox (A16) ( <b>LRR F, G, H</b> )
Black Histic (A3)	Stripped Matrix (S6)	Dark Si	Inface (S7) (LRR G)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	High Pl	ains Depressions (F16)
Stratified Layers (A5) (LRR F)	Loamy Gleyed Matrix (F2)	(LRI	R H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)	Depleted Matrix (F3)	Reduce	d Vertic (F18)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Red Pa	rent Material (TF2)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Sł	allow Dark Surface (TF12)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Other (I	Explain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRR G	, H) High Plains Depressions (F16)	<sup>3</sup> Indicators of	of hydrophytic vegetation and
5 cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetland	hydrology must be present,
		unless	disturbed or problematic.
Restrictive Layer (if present):			
Type: Hard Clay			,
Depth (inches): 10		Hydric Soil	Present? Yes No _✓
Remarks:			
Hydric soil components were not	observed at this sample point. A	hard laver of cl	av was ancountared at 10
inchos bolow the soil surface		That u layer of ch	ay was encountered at 10
inches below the soll surface.			ay was encountered at 10
IYDROLOGY			
IYDROLOGY Wetland Hydrology Indicators:			
Hydrology           Wetland Hydrology Indicators:           Primary Indicators (minimum of one required)	check all that apply)	Secondar	y Indicators (minimum of two required)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	check all that apply) Salt Crust (B11)	<u>Secondar</u>	y Indicators (minimum of two required)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<u>check all that apply)</u> Salt Crust (B11) Aquatic Invertebrates (B13)	<u>Seconda</u> Surfa Spar	<u>y Indicators (minimum of two required)</u> nce Soil Cracks (B6) sely Vegetated Concave Surface (B8)
IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required.	<u>check all that apply)</u> Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	<u>Secondar</u> Surfa Spar V Drair	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<u>check all that apply)</u> <u>Salt Crust (B11)</u> Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Drv-Season Water Table (C2)	<u>Secondar</u> Surfa Spar Drair Oxidi	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) hage Patterns (B10) zed Rhizospheres on Living Roots (C3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<u>check all that apply)</u> <u>Salt Crust (B11)</u> Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rbizospheres on Living R	<u>Secondar</u> Surfa Spar <u>✓</u> Drair Oxidi	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<u>check all that apply)</u> <u>Salt Crust (B11)</u> <u>Aquatic Invertebrates (B13)</u> <u>Hydrogen Sulfide Odor (C1)</u> <u>Dry-Season Water Table (C2)</u> <u>Oxidized Rhizospheres on Living F</u> (where not tilled)	<u>Secondar</u> Surfa Spar <u>✔</u> Drair Oxidi Roots (C3) (WI	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<ul> <li><u>check all that apply</u>)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Dry-Season Water Table (C2)</li> <li>Oxidized Rhizospheres on Living F (where not tilled)</li> </ul>	<u>Secondar</u> Surfa Spar <u>✓</u> Drair Oxidi Roots (C3) (wi Cray	y Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) age Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<ul> <li><u>check all that apply</u>)</li> <li><u>Salt Crust (B11)</u></li> <li><u>Aquatic Invertebrates (B13)</u></li> <li><u>Hydrogen Sulfide Odor (C1)</u></li> <li><u>Dry-Season Water Table (C2)</u></li> <li><u>Oxidized Rhizospheres on Living F</u> (where not tilled)</li> <li><u>Presence of Reduced Iron (C4)</u></li> <li><u>Thin Muck Surface (C7)</u></li> </ul>	<u>Secondai</u> Surfa Spar <u>✓</u> Drair Oxidi Roots (C3) (wi Cray Satu Satu	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3) inere tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) porrhic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<ul> <li><u>check all that apply</u>)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Dry-Season Water Table (C2)</li> <li>Oxidized Rhizospheres on Living F (where not tilled)</li> <li>Presence of Reduced Iron (C4)</li> <li>Thin Muck Surface (C7)</li> </ul>	Coots (C3) Secondal Secondal Spar ✓ Drair Oxidi Cray Geor EAC	y Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) age Patterns (B10) zed Rhizospheres on Living Roots (C3) <b>here tilled</b> ) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required	<ul> <li><u>check all that apply</u>)</li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Dry-Season Water Table (C2)</li> <li>Oxidized Rhizospheres on Living F</li> <li>(where not tilled)</li> <li>Presence of Reduced Iron (C4)</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Coots (C3) (₩ Coots (C3) (₩ Cray Cray Cray Cray Cray Cray Cray Cray Cray Cray Cray Cray Cray Cray	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) hage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required	<ul> <li><u>check all that apply</u></li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Dry-Season Water Table (C2)</li> <li>Oxidized Rhizospheres on Living F</li> <li>(where not tilled)</li> <li>Presence of Reduced Iron (C4)</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Secondau Surfa Spar ✔ Drair Oxidi Roots (C3) (wi Cray Satu Geor FAC- Frost	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<ul> <li><u>check all that apply</u></li> <li>Salt Crust (B11)</li> <li>Aquatic Invertebrates (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Dry-Season Water Table (C2)</li> <li>Oxidized Rhizospheres on Living F (where not tilled)</li> <li>Presence of Reduced Iron (C4)</li> <li>Thin Muck Surface (C7)</li> <li>Other (Explain in Remarks)</li> </ul>	Secondar Surfa Spar ✔ Drair Oxidi Roots (C3) (wi Cray Satur Geor FAC- Frost	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	<ul> <li><u>check all that apply</u>)</li> <li> Salt Crust (B11)</li> <li> Aquatic Invertebrates (B13)</li> <li> Hydrogen Sulfide Odor (C1)</li> <li> Dry-Season Water Table (C2)</li> <li> Oxidized Rhizospheres on Living F</li> <li>(where not tilled)</li> <li> Presence of Reduced Iron (C4)</li> <li> Thin Muck Surface (C7)</li> <li> Other (Explain in Remarks)</li> </ul>	Coots (C3) — Secondar — Surfa — Spar ✓ Drair — Oxidi — Cray — Satur — Geor — FAC- — Frost	y Indicators (minimum of two required) ace Soil Cracks (B6) sely Vegetated Concave Surface (B8) age Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	check all that apply)	Secondar          Surfa          Spar         ✓       Drair          Oxidi          Oxidi          Oxidi          Satur          Geor	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) hage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F)
Image: Series below the soll surface.         IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	check all that apply)	Secondar          Surfa          Spar         ✓       Drair          Oxidi          Oxidi          Cray          Satur          Geor          Frost	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F) Present? Yes _ ✓ No
IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)	check all that apply)	<u>Secondar</u> <u>Surfa</u> <u>Surfa</u> <u>Spar</u> <u>✓</u> Drair <u>✓</u> Drair <u>✓</u> Oxidi <u>—</u> Oxidi <u>—</u> Cray <u>—</u> Satur <u>—</u> Geor <u>—</u> FROST <b>Wetland Hydrology</b> ions), if available:	y Indicators (minimum of two required) tice Soil Cracks (B6) sely Vegetated Concave Surface (B8) tage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F) Present? Yes No
Increase below the soll sufface.         Improvement of the soll sufface.         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         ✓ Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Vis ble on Aerial Imagery (B7         Water-Stained Leaves (B9)         Field Observations:         Surface Water Present?       Yes         Nater Table Present?       Yes         Saturation Present?       Yes         Naturation Present?       Yes         Saturation Present?       Yes         Saturation Present?       Yes         Mater Table Present?       Yes         Naturation Present?       Yes         Saturation Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Mater Table Present?       Yes         Naturation Present?       Yes         Saturation Present?       Yes         Mater Table Present?       Yes         Saturation P	a check all that apply)	Secondar     Surfa     Spar     Oxidi     Oxidi     Oxidi     Cray     Satur     Geor     FAC-     Frost      Wetland Hydrology ions), if available: Indicators of wetland hydrol	y Indicators (minimum of two required) toe Soil Cracks (B6) sely Vegetated Concave Surface (B8) hage Patterns (B10) zed Rhizospheres on Living Roots (C3) here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F) Present? Yes No
IYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required	check all that apply)	Secondar          Surfa          Spar         ✓       Drair          Oxidi          Oxidi          Oxidi          Cray          Satur          Geor          Frost         Wetland Hydrology         ions), if available:         Indicators of wetland hydro	y Indicators (minimum of two required) ice Soil Cracks (B6) sely Vegetated Concave Surface (B8) iage Patterns (B10) zed Rhizospheres on Living Roots (C3 here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) norphic Position (D2) Neutral Test (D5) -Heave Hummocks (D7) (LRR F) Present? Yes No plogy were recorded with this condition in mind.

#### ASP05



Project/Site: PVGTB - PVH	City/County: E	agle Pass/Maverick County	Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: ASP06
Investigator(s): AP, NA	Section, Town	ship, Range: <u>N/A</u>	
Landform (hillslope, terrace, etc.): Flat	_ Local relief (co	oncave, convex, none): None	Slope (%): 1
Subregion (LRR): 183B Lat: 28	3.74521	Long: -100.500978	Datum: NAD83_2011
Soil Map Unit Name: ReA - Reynosa silty clay loam, 0 to 1 per	rcent slopes	NWI classific	ation:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significantly	/ disturbed?	Are "Normal Circumstances" p	resent? Yes <u>✓</u> No
Are Vegetation, Soil, or Hydrology naturally pro	oblematic?	(If needed, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling	point locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>✓</u> No <u>✓</u> No <u>✓</u>	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>
Remarks:					

This sample point was recorded to represent a herbaceous upland area near the transition from scrub-shrub upland to agricultural field.

00 ft	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				(excluding FAC-): 0 (A)
3				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
	_	= Total Cov	/er	Demont of Deminent Creation
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL FACW or FAC 0.00 (A/B)
1.				
2				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
				OBL species <u>5</u> x 1 = <u>5</u>
4				FACW species $0$ x 2 = $0$
5				EAC species $0$ x 3 = $0$
Userb Obserburg (Distribute 5 ft r		= Total Cov	/er	EACH appearing $15$ $x = 60$
Herb Stratum (Plot size: 51(1))	40			$\begin{array}{c} \text{FACO species}  \underline{10} \qquad x \neq \underline{-00} \\ \text{HD} \qquad -$
	40	<u> </u>		UPL species $\frac{80}{100}$ x 5 = $\frac{400}{100}$
2. Cenchrus ciliaris	40		UPL	Column Totals: $100$ (A) $465$ (B)
3. Cynodon dactylon	15		FACU	Dravalance index $= D/A = -4.65$
4. Suaeda nigra	5		OBL	
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7	_			2 - Dominance Test is >50%
Q				3 - Prevalence Index is ≤3.0 <sup>1</sup>
0				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10	100			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Weader Vine Charter (Plat size, 30 ft r	100	= Total Cov	/er	<sup>1</sup> Indicators of hydric soil and watland hydrology must
Woody vine Stratum (Plot size. <u>contrim</u> )				be present, unless disturbed or problematic.
1				··· p ··· · · · · · · · · · · · · · · ·
2				Hydrophytic
		= Total Cov	/er	Vegetation Present? Yes No V
% Bare Ground in Herb Stratum				
Remarks:				
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.

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(inches)		0/	Color (maint)		<u>s</u> Tum- <sup>1</sup>	$1 a a^2$	Touture	Dama dar	
(incnes)		<u> </u>	Color (moist)	<u>%</u>	Type	LOC	<u> </u>	Remarks	
0-10	2.51 5/5	100					Silty Clay		
-									
-									
-									
-				_					
-									
-									
-							· · ·		
Type: C=Co	ncentration, D=Dep	letion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Locat	ion: PL=Pore Lining,	M=Matrix.
lydric Soil I	ndicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)		Indicators fo	or Problematic Hydrid	: Soils <sup>3</sup> :
Histosol (	A1)		Sandy	Gleyed Ma	ıtrix (S4)		1 cm Mu	ck (A9) ( <b>LRR I, J</b> )	
Histic Ep	pedon (A2)		Sandy	Redox (S5	)		Coast Pr	airie Redox (A16) (LR	R F, G, H)
Black His	tic (A3)		Strippe	d Matrix (S	56) 		Dark Sur	face (S7) (LRR G)	
Hydroger Stratified	1 Suilide (A4)	=)	Loamy	Cloved Ma	trix (F2)		High Plai	Houtside of MIRA	72 8. 73)
1 cm Mu	Layers (A3) (LKK)	F) H)	Loaniy Deplete	oleyeu wa d Matrix (F	=3)		Reduced	Vertic (F18)	2 & 73)
Depleted	Below Dark Surfac	e (A11)	Redox	Dark Surfa	ice (F6)		Red Pare	ent Material (TF2)	
 Thick Da	rk Surface (A12)	· · /	Deplete	d Dark Su	rface (F7)		Very Sha	allow Dark Surface (TF	12)
Sandy M	ucky Mineral (S1)		Redox	Depressio	ns (F8)		Other (E:	xplain in Remarks)	
2.5 cm M	ucky Peat or Peat (	S2) (LRR G,	H) High Pl	ains Depre	essions (F	16)	<sup>3</sup> Indicators of	hydrophytic vegetatio	n and
5 cm Mu	cky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	.RA 72 & 7	73 of LRR	H)	wetland h	ydrology must be pre	sent,
							unless di	sturbed or problemation	Э.
	ayer (if present):								
Type: Oic	1 <u>y</u> haadda 10								
Depth (Inc	nes): <u>10</u>						Hydric Soli Pi	resent? Yes	<u>NO</u>
Remarks:									
Hydric soil	components v	were not o	observed at th	nis samp	ple poin	t. A har	d clay layer v	vas observed at	10 inches
pelow the	soil surface.								
YDROLOG	θY								
Netland Hyd	rology Indicators:								
Primary Indica	ators (minimum of c	one required;	check all that app	y)			Secondary	Indicators (minimum	of two required
Surface \	Vater (A1)		Salt Crust	(B11)			Surfac	e Soil Cracks (B6)	
High Wat	er Table (A2)		Aquatic In	vertebrate	s (B13)		Sparse	ely Vegetated Concav	e Surface (B8)
Saturatio	n (A3)		Hydrogen	Sulfide Od	dor (C1)		Draina	ige Patterns (B10)	
Water Ma	arks (B1)		Dry-Sease	on Water T	able (C2)		Oxidiz	ed Rhizospheres on L	iving Roots (C
Sedimen	t Deposits (B2)		Oxidized I	Rhizosphe	res on Liv	ing Roots	(C3) (whe	ere tilled)	
Drift Dep	osits (B3)		(where	not tilled)			Crayfis	sh Burrows (C8)	
Algal Mat	or Crust (B4)		Presence	of Reduce	d Iron (C4	•)	Satura	ation Visible on Aerial	magery (C9)
Iron Dep	osits (B5)		Thin Mucl	Surface (	C7)		Geom	orphic Position (D2)	
Inundatio	n Vis ble on Aerial	Imagery (B7)	Other (Ex	plain in Re	marks)		FAC-N	leutral Test (D5)	
Water-St	ained Leaves (B9)						Frost-I	Heave Hummocks (D7	') (LRR F)
Field Observ	ations:								
Surface Wate	r Present? Y	′es N	o 🖌 Depth (in	ches):		_			
Water Table I	Present? Y	′es N	o 🗹 Depth (in	ches):					
Saturation Pro	esent? Y	′es N	o 🖌 Depth (in	ches):		Wet	land Hydrology F	Present? Yes	No✓
includes cap	llary fringe)		itoring well porial	nhotos pr	evious inc	nections)	if available:		
Describe Rec		i yauye, mon	encing slightly drier th	priotos, pro	evious iris	pections),	II available.	oay were recorded with thi	condition in min
sooraling to the		, area is experi				dl		ag, more recorded with the	
emarks:									

#### ASP06



Eastern view from sample point



Western view from sample point

Project/Site: PVGTB - PVH	_ City/County: Eagle Pass/Maverick County Sampling Date: 2024-	05-22			
Applicant/Owner: Purto Verde Holdings	State: Texas Sampling Point: ASP07	'			
Investigator(s): AP, NA	Section, Township, Range: N/A				
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): None Slope (%): 1				
Subregion (LRR): 183B Lat: 28	28.74514 Long: -100.500883 Datum: NAC	83_2011			
Soil Map Unit Name: ReA - Reynosa silty clay loam, 0 to 1 per	ercent slopes NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of ye	year? Yes No (If no, explain in Remarks.)				
Are Vegetation, Soil, or Hydrology significantly	tly disturbed? Are "Normal Circumstances" present? Yes _ ✓ _ No	)			
Are Vegetation, Soil, or Hydrology naturally pr	problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing	ng sampling point locations, transects, important features	s, etc.			
Hydrophytic Vegetation Present? Yes No _	- Is the Sampled Area				
Hydric Soil Present? Yes No _✓	— within a Wetland? Yes No √				
Wetland Hydrology Present? Yes No					
Remarks:					

This sample point was recorded within scrub-shrub upland habitat bordering agricultural fields.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Demisert Oregies
1 Prosopis glandulosa	75	√	FACU	That Are OBL FACW or FAC
2			<u></u>	(excluding FAC-): $0$ (A)
2				
3				Total Number of Dominant
4				Species Across Air Strata. <u>5</u> (B)
a in the second s	75	= Total Co	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 13 rt 1)	20			That Are OBL, FACW, or FAC: $0.00$ (A/B)
1. Prosopis giandulosa	30	✓	FACU	Brovalanco Index workshoot:
2				
3				Nultiply by:
4				OBL species $0 \times 1 = 0$
5.				FACW species $0$ x 2 = $0$
	30	= Total Co	ver	FAC species $0   x 3 = 0$
Herb Stratum (Plot size: 5 ft r )		rotar oo		FACU species 115 x 4 = 460
1. Cenchrus ciliaris	50	$\checkmark$	UPL	UPL species 50 x 5 = 250
2 Prosopis glandulosa	10		FACU	Column Totals: 165 (A) 710 (B)
3				
				Prevalence Index = $B/A = 4.30$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				$3 - $ Prevalence Index is $< 3.0^{1}$
8				Merchological Adaptations <sup>1</sup> (Dravide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydronhytic Vegetation <sup>1</sup> (Explain)
	60	= Total Co	ver	
Woody Vine Stratum (Plot size: 30 ft r )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		= Total Co	ver	Vegetation
% Bare Ground in Herb Stratum				Present? Yes No 🗸
Remarks:				
Lludroubytic verstation was not do				in a limit
hydrophytic vegetation was not dol	mant a	at this s	ampie	point.

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CORREST	Color (moint)	0/_	Color (moist) % Type <sup>1</sup>	ac <sup>2</sup> Toytura	Domarka
0 - 9	2 5V 5/2	<u> </u>			Kemarks
0-0	2.31 3/3	100		Clay	
-					
-					
-					
-					
-					
_					
		· <u> </u>			
Type: C=Co Indria Sail	oncentration, D=Dep	letion, RM=R	educed Matrix, CS=Covered or Coated S	Sand Grains. 1	Location: PL=Pore Lining, M=Matrix.
			Sandy Cloyed Matrix (S4)	1 cm	
Histic Fr	(AT) Dipedon (A2)		Sandy Redox (S5)	T CI	II Muck (A9) (LKK I, J) Ist Prairie Redox (A16) (I RR F G H)
Black Hi	stic (A3)		Stripped Matrix (S6)	Oed Dar	k Surface (S7) ( <b>LRR G</b> )
Hydroge	en Sulfide (A4)		Loamy Mucky Mineral (F1)	High	Plains Depressions (F16)
Stratified	d Layers (A5) (LRR I	F)	Loamy Gleyed Matrix (F2)	(	LRR H outside of MLRA 72 & 73)
1 cm Mu	ick (A9) (LRR F, G,	H)	Depleted Matrix (F3)	Red	uced Vertic (F18)
Depleted	d Below Dark Surfac	e (A11)	Redox Dark Surface (F6)	Red	Parent Material (TF2)
I NICK Da	ark Sufface (A12)		Depleted Dark Surface (F7)	Ver	y Shallow Dark Surface (TF12)
3anuy iv 2.5 cm M	Aucky Peat or Peat (	S2) (I RR G. '	High Plains Depressions (F16)	<sup>3</sup> Indicato	ors of hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	(MLRA 72 & 73 of LRR H)	wetl	and hydrology must be present,
	, , , , , , , , , , , , , , , , , , ,	, ( )	, ,	unle	ess disturbed or problematic.
Restrictive I	Layer (if present):				
Restrictive I	Layer (if present):		_		
Restrictive I Type: Depth (ind	Layer (if present):		_	Hydric S	oil Present? Yes No✓
Restrictive I Type: Depth (ind Remarks:	Layer (if present):			Hydric S	oil Present? Yes No∕
Restrictive I Type: Depth (ind Remarks: Hydric so	Layer (if present):	vere not o	 	Hydric S A hard clay lay	oil Present? Yes No✓ er was encountered at 8 inche
Restrictive I Type: Depth (ind Remarks: Iydric so below the	Layer (if present): ches): il components v soil surface.	were not o	— — bserved at this sample point. /	Hydric S A hard clay lay	oil Present? Yes No $\checkmark$ er was encountered at 8 inche
Restrictive I Type: Depth (ind Remarks: Iydric sol elow the YDROLO	Layer (if present): ches): il components v soil surface. GY	were not o		Hydric S A hard clay lay	oil Present? Yes No _✓ er was encountered at 8 inche
Type: Depth (inc Remarks: Iydric so elow the YDROLO	Layer (if present): ches): il components v soil surface. GY drology Indicators:	were not o	bserved at this sample point. /	Hydric S A hard clay lay	oil Present? Yes No _ ✓ er was encountered at 8 inche
testrictive I Type: Depth (inc Remarks: lydric so elow the YDROLO Vetland Hyd Primary India	Layer (if present): ches): il components v soil surface. GY drology Indicators: cators (minimum of c		bserved at this sample point. /	Hydric S A hard clay lay Secor	oil Present? Yes No _✓_ er was encountered at 8 inche
estrictive I Type: Depth (ind emarks: ydric sol elow the fDROLO Vetland Hydright Surface	Layer (if present): ches): il components w soil surface. GY drology Indicators: cators (minimum of c Water (A1)	were not o	bserved at this sample point. <i>i</i>	Hydric S A hard clay lay <u>Secor</u>	oil Present? Yes No _✓ er was encountered at 8 inche
Type: Depth (inc temarks: ydric sol elow the YDROLO Vetland Hyd rimary India Surface High Wa	Layer (if present): ches): il components v soil surface. GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2)	were not o		Hydric S A hard clay lay Secor S	oil Present? Yes No _✓ er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8
Restrictive I Type: Depth (inc Remarks: Iydric soi elow the YDROLO Yetland Hyo Yrimary India Surface High Wa Saturatia	Layer (if present): ches): il components w soil surface. GY drology Indicators: cators (minimum of c Water (A1) ther Table (A2) on (A3)	were not o		Hydric S A hard clay lay S <u>ecor</u> S S S	oil Present? Yes No er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10)
Restrictive I Type: Depth (inc Remarks: Iydric so Pelow the YDROLO Vetland Hyd Primary India Casturatio High Wa Saturatio Water M	Layer (if present): ches): il components w soil surface. GY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) larks (B1)	were not o	bserved at this sample point. / check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)	Hydric S A hard clay lay S S S S S	oil Present? Yes No er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) Dividized Rhizospheres on Living Roots (C
Restrictive I Type: Depth (inc Remarks: Iydric sol elow the Primary India Surface Surface High Wa Saturatia Saturatia Sedimer	Layer (if present): ches):	were not o	bserved at this sample point. <i>i</i> check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living	Hydric S A hard clay lay Secor S S S D C Roots (C3)	oil Present? Yes No _✓ er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 Irainage Patterns (B10) Dxidized Rhizospheres on Living Roots (C (where tilled)
Restrictive I Type: Depth (inc Remarks: Iydric so pelow the YDROLO Vetland Hyc Primary Indic Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep	Layer (if present): ches):	were not o	bserved at this sample point. // check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled)	Hydric S A hard clay lay Secor 	oil Present? Yes No _✓ er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 irainage Patterns (B10) 0xidized Rhizospheres on Living Roots (C (where tilled) irayfish Burrows (C8)
Restrictive I Type: Depth (inc Remarks: Iydric sol Pelow the YDROLO Vetland Hyc Primary India Control of the Saturatio Water M Saturatio Saturatio Saturatio Mater M Saturatio Algal Ma	Layer (if present): ches): il components was soil surface. GY drology Indicators: cators (minimum of controls) water (A1) tter Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	were not o	bserved at this sample point. / check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4)	Hydric S A hard clay lay Secon S S S S C Roots (C3) C S	oil Present? Yes No _✓ er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 parainage Patterns (B10) exidized Rhizospheres on Living Roots (C (where tilled) trayfish Burrows (C8) aturation Visible on Aerial Imagery (C9)
Restrictive I Type: Depth (inc Remarks: Iydric soi below the YDROLO Vetland Hyd Primary India Control of the Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	Layer (if present): ches):	were not o	Salt Crust (B11) Check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7)	Hydric S A hard clay lay 	oil Present? Yes No er was encountered at 8 inches ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) rainage Patterns (B10) 0xidized Rhizospheres on Living Roots (C (where tilled) rrayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2)
Restrictive I Type: Depth (inc Remarks: Iydric sol Pelow the Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati	Layer (if present): ches):	were not o	check all that apply)  Salt Crust (B11)  Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Hydric S A hard clay lay Secor S S S B C Roots (C3) C S C C C C C C C C C C C C C C C C C	oil Present? Yes No✓ er was encountered at 8 inches ndary Indicators (minimum of two requires urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 trainage Patterns (B10) trainage Patterns (B10) traininge Patterns (B10) trayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) AC-Neutral Test (D5)
Restrictive I Type: Depth (inc Remarks: Iydric sol Pelow the YDROLO YDROLO Wetland Hyp Primary India Watar M Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Water-S	Layer (if present): ches):	were not o	check all that apply) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks)	Hydric S A hard clay lay Secor 	oil Present? Yes No er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) prainage Patterns (B10) 0xidized Rhizospheres on Living Roots (C (where tilled) trayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) AC-Neutral Test (D5) rost-Heave Hummocks (D7) (LRR F)
Restrictive I Type: Depth (inv Remarks: Iydric sol pelow the YDROLO Vetland Hyv Primary India Overland Hyv Primary India Saturatia Water M Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Water-S Field Obser	Layer (if present): ches):	were not o	<u>check all that apply</u> <u>Salt Crust (B11)</u> <u>Aquatic Invertebrates (B13)</u> <u>Hydrogen Sulfide Odor (C1)</u> <u>Dry-Season Water Table (C2)</u> <u>Oxidized Rhizospheres on Living (where not tilled)</u> <u>Presence of Reduced Iron (C4)</u> <u>Thin Muck Surface (C7)</u> <u>Other (Explain in Remarks)</u>	Hydric S A hard clay lay 	oil Present? Yes No er was encountered at 8 inche ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) trainage Patterns (B10) trainage
Restrictive I Type: Depth (inc Remarks: Iydric sol Delow the YDROLO Vetland Hyd Primary India Control of the Saturatio Saturatio Sedimer Sedimer Drift Dep Algal Ma Iron Dep Inundati Water-S Field Obser	Layer (if present): ches):	were not o	bserved at this sample point. bserved at this sample point. <u>check all that apply</u> ) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living (where not tilled) Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches):	Hydric S A hard clay lay Secor S S S D C Roots (C3) C S C S C C S S C S S C S S C S S C S S C S S C S S S C S	oil Present? Yes No er was encountered at 8 inches ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8) rainage Patterns (B10) oxidized Rhizospheres on Living Roots (C (where tilled) aturation Visible on Aerial Imagery (C9) ecomorphic Position (D2) AC-Neutral Test (D5) rost-Heave Hummocks (D7) (LRR F)
Restrictive I Type: Depth (inc Remarks: Hydric sol Delow the YDROLO Wetland Hyd Primary India Control of the Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S Field Obser Surface Wat	Layer (if present): ches):	were not o	check all that apply)	Hydric S A hard clay lay Secor 	oil Present? Yes No✓ er was encountered at 8 inches indary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 trainage Patterns (B10) bxidized Rhizospheres on Living Roots (C (where tilled) trayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) becomorphic Position (D2) AC-Neutral Test (D5) rost-Heave Hummocks (D7) (LRR F)
Restrictive I Type: Depth (inc Remarks: Tydric sol Delow the YDROLO Wetland Hyp Primary India Surface High Wa Saturation Drift Dep Algal Ma Iron Dep Inundatii Water S Field Obser Surface Wat Vater Table Saturation P	Layer (if present): ches):	were not o	check all that apply)	Hydric S A hard clay lay Secor 	oil Present? Yes No er was encountered at 8 inches ndary Indicators (minimum of two required urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 trainage Patterns (B10) 0xidized Rhizospheres on Living Roots (C (where tilled) trayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) AC-Neutral Test (D5) rost-Heave Hummocks (D7) (LRR F)
Restrictive I Type: Depth (inc Remarks: Hydric sol Delow the YDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatii Water-S Field Obser Surface Wat Nater Table	Layer (if present): ches):	were not o	bbserved at this sample point.  bbserved at this sample poin	Hydric S A hard clay lay Secor S S S S C Roots (C3) C S C S C S C S C S C S C S C S C S C	oil Present? Yes No✓ er was encountered at 8 inches ndary Indicators (minimum of two requires urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 rainage Patterns (B10) 0xidized Rhizospheres on Living Roots (C (where tilled) trayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) AC-Neutral Test (D5) rost-Heave Hummocks (D7) (LRR F)
Restrictive I Type: Depth (inc Remarks: Iydric soi elow the YDROLO Yetland Hyd Primary India Control of the Primary India Control of the Sedimer Control of the Seconding to the	Layer (if present): ches):	were not o	bbserved at this sample point.  bbserved at this sample poin	Hydric S A hard clay lay Secon S S S B C Roots (C3) C S G G G F F S G G S S C S S S C S S S S S S S S S S	oil Present? Yes No er was encountered at 8 inches ndary Indicators (minimum of two requires urface Soil Cracks (B6) parsely Vegetated Concave Surface (B8 rainage Patterns (B10) bxidized Rhizospheres on Living Roots (C (where tilled) rayfish Burrows (C8) aturation Visible on Aerial Imagery (C9) beomorphic Position (D2) AC-Neutral Test (D5) rost-Heave Hummocks (D7) (LRR F)

#### ASP07



Project/Site: PVGTB - PVH	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings	State: Texas Sampling Point: ASP08
Investigator(s): AP, NA	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.): Flat	_ Local relief (concave, convex, none): <u>None</u> Slope (%): <u>1</u>
Subregion (LRR): 183B Lat: 28	B.741232 Long: -100.503121 Datum: NAD83_2011
Soil Map Unit Name: LgA - Lagloria very fine sandy loam, 0 to	o 1 percent slopes NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally pro	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>√</u> No <u>√</u> No <u>√</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:			•		

This sample point was recorded to represent a herbaceous upland area located north of Seco Creek and the abutting scrub-shrub habitat..

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				(excluding FAC-): $0$ (A)
3				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
		= Total Cov	/er	Demonst of Deminant Creation
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL. FACW. or FAC: 0.00 (A/B)
1.				
2.				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
۵ ۸				OBL species <u>0</u> x 1 = <u>0</u>
4				FACW species $0$ x 2 = $0$
o				FAC species $0   x 3 = 0$
Herb Stratum (Plot size: 5 ft r )		= Total Cov	/er	FACU species $55 \times 4 = 220$
1 Cynodon dactylon	50	$\checkmark$	FACU	UPL species $20 \times 5 = 100$
2 Cenchrus ciliaris	20			Column Totals: $75$ (A) $320$ (B)
2. Prosopis glandulosa	5		FACU	
	_ —		1400	Prevalence Index = $B/A = 4.26$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0 <sup>1</sup>
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
20.4	75	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r )				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed of problematic.
2				Hydrophytic
		= Total Cov	/er	Vegetation
% Bare Ground in Herb Stratum				
Remarks:				
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.

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Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type'	Loc <sup>2</sup> Texture Remarks
<u>0-8</u> <u>2.5Y 5/3</u> <u>100</u>		Clay
-		
-		
· · · · · · · · · · · · · · · · · · ·		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated	Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all	LRRS, unless otherwise noted.)	Indicators for Problematic Hydric Solis :
HISTOSOI (A1) Histic Epipedon (A2)	Sandy Gleyed Matrix (S4)	1 CM MUCK (A9) (LRR I, J) Coast Prairie Redox (A16) (LRP F. C. H)
Black Histic (A3)	Stripped Matrix (S6)	Dark Surface (S7) (IRR G)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	High Plains Depressions (F16)
Stratified Layers (A5) (LRR F)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)	Depleted Matrix (F3)	Reduced Vertic (F18)
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Red Parent Material (TF2)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Other (Explain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRR	(ML DA 72 & 72 of L DD I	<ul> <li>andicators of hydrophytic vegetation and</li> <li>wotland hydrophytic vegetation and</li> </ul>
		unless disturbed or problematic.
Restrictive Layer (if present):		
<sub>Type:</sub> Clay		
Depth (inches): <u>8</u>		Hydric Soil Present? Yes No _✓
Remarks:		
Hydric soil components were not	t observed at this sample point	A hard clay layer was encountered at 8 inches
below the soil surface.		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	d: check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Salt Crust (B11)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1)	Dry-Season Water Table (C2)	Oxidized Rhizospheres on Living Roots (C3)
Sediment Deposits (B2)	Oxidized Rhizospheres on Livir	ig Roots (C3) (where tilled)
Drift Deposits (B3)	(where not tilled)	Crayfish Burrows (C8)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5)	Thin Muck Surface (C7)	Geomorphic Position (D2)
Inundation Vis ble on Aerial Imagery (B	7) Other (Explain in Remarks)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)		Frost-Heave Hummocks (D7) (LRR F)
Field Observations:		
Surface Water Present? Yes	No 🧹 Depth (inches):	-
Water Table Present? Yes	No Depth (inches):	-
Saturation Present? Yes (includes capillary fringe)	No <u>/</u> Depth (inches):	_ Wetland Hydrology Present? Yes No _✓
Describe Recorded Data (stream gauge, me According to the USACE's APT, the survey area is exp	Dnitoring well, aerial photos, previous insp eriencing slightly drier than normal climatic conditio	ections), if available: ns. Indicators of wetland hydrology were recorded with this condition in mind.
Remarks:		
Wetland hydrology was not	observed at this sample	point.

#### ASP08



Project/Site: PVGTB - PVH	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings	State: Texas Sampling Point: TISP01
Investigator(s): AP, NA	Section, Township, Range: N/A
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): <u>None</u> Slope (%): <u>15</u>
Subregion (LRR): 183B	Lat: 28.737926 Long: -100.50558 Datum: NAD83_2011
Soil Map Unit Name: Rz - Rio Grande and Zalla soils, fr	requently flooded NWI classification:
Are climatic / hydrologic conditions on the site typical for this ti	ime of year? Yes No _ ✔ (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sign	nificantly disturbed? Are "Normal Circumstances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology nate	turally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	howing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes No _         Hydric Soil Present?       Yes No _         Wetland Hydrology Present?       Yes No _	✓     Is the Sampled Area       ✓     within a Wetland?   Yes No _✓
Remarks:	

This sample point was recorded to represent a scrub-shrub upland area situated south of Seco Creek.

00.4	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>1</u> (B)
		= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: $0.00$ (A/B)
1. Prosopis glandulosa	30	✓	FACU	
2				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4.				OBL species $0$ x 1 = $0$
5				FACW species $0   x 2 = 0$
···	30	= Total Cov		FAC species $0 \times 3 = 0$
Herb Stratum (Plot size: 5 ft r )				FACU species <u>30</u> x 4 = <u>120</u>
1.				UPL species $0 \times 5 = 0$
2				Column Totals: 30 (A) 120 (B)
3				( ) ( )
4.				Prevalence Index = B/A = 4.00
				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0 <sup>1</sup>
8		. <u> </u>		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
20 ft #		= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r )				Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed of problematic.
2				Hydrophytic
		= Total Cov	/er	Vegetation Brocent? Yes No Y
% Bare Ground in Herb Stratum				
Remarks:				
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.

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Profile Desc	ription: (Describe	to the depth h	eeaed to docui	nent the i	naicator (	or confirr	n the absence o	or indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 12	2.5Y 5/3	100					Silty Clav	
-								
-								
-								
					·			
<sup>1</sup> Type: C=Co	oncentration, D=Dep	oletion, RM=Red	duced Matrix, C	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LRF	Rs, unless othe	rwise note	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy (	Gleyed Ma	ıtrix (S4)		1 cm Mi	uck (A9) ( <b>LRR I, J</b> )
Histic Ep	bipedon (A2)		Sandy I	Redox (S5	)		Coast P	rairie Redox (A16) ( <b>LRR F, G, H</b> )
Black Hi	stic (A3)		Stripped	d Matrix (S	56) 		Dark Su	irface (S7) (LRR G)
Hydroge	n Sumae (A4)	<b>E</b> )	Loamy	NUCKY MIL	(F1)		High Pla	AINS Depressions (FT6)
1 cm Mu	I Layers (A3) (LKK)	F) H)	Loaniy Denlete	of Matrix (F	=3)		Reduce	d Vertic (F18)
Depleted	d Below Dark Surfac	e (A11)	Redox I	Dark Surfa	ice (F6)		Red Par	rent Material (TF2)
Thick Da	ark Surface (A12)	<b>、</b>	Deplete	d Dark Su	rface (F7)		Very Sh	allow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox I	Depressio	ns (F8)		Other (E	Explain in Remarks)
2.5 cm N	lucky Peat or Peat (	(S2) ( <b>LRR G, H</b>	) High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators o	f hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	.RA 72 & 7	73 of LRR	H)	wetland	hydrology must be present,
Destrictive							unless o	disturbed or problematic.
	_ayer (if present):							
Type: CI	ay 10		_					
Depth (ind	cnes): <u>12</u>		-				Hydric Soil F	Present? Yes No
Remarks:								
Hydric soi	l components	were not ob	served at th	nis samp	ole poin	t. A har	d layer of cla	ay was encountered at 12
inches be	low the soil sur	face.						
HYDROLO	GY							
Wetland Hy	drology Indicators							
Primary India	ators (minimum of c	ne required: ch	eck all that ann	V)			Secondar	v Indicators (minimum of two required)
<u>r milary maid</u>	Mator (A1)		Salt Crust	<u>y)</u> (P11)				
	vialer (AT)			(DTT) vortobrato	c (P13)		<u>v</u> Suna	ce Sull Clacks (B0)
Saturatio	$(\Delta 3)$		Hydrogen		$\sin(C1)$		Opais Drain	age Patterns (B10)
Water M	arks (B1)		Invelogen	on Water T	able (C2)		Ovidi	zed Rhizospheres on Living Roots (C3)
Sedimer	at Denosits (B2)			Rhizosohe	res on Livi	ina Roots	(C3) (wh	pere tilled)
Drift Der	(B3)		(where	not tilled)		ing roots	(CC) (WI	ish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduce	d Iron (C4	L)	Satur	ration Visible on Aerial Imagery (C9)
Iron Der	osits (B5)		Thin Muck	Surface (	C7)	)	Geon	norphic Position (D2)
Inundatio	on Vis ble on Aerial	Imagery (B7)	Other (Ex	olain in Re	marks)		EAC-	Neutral Test (D5)
Water-S	tained Leaves (B9)						Frost	-Heave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	er Present?	íes No	✓ Depth (in	ches).				
Water Table	Present?	/es No	✓ Depth (in	ches):		_		
Saturation D			✓ Dopth (in	ches).		Wet	land Hydrology	Present? Yes No 🗸
(includes car	billary fringe)	69 <u> </u>		uies)			and nyurology	
Describe Re	corded Data (stream	n gauge, monito	ring well, aerial	photos, pr	evious ins	pections),	if available:	
According to the	USACE's APT, the surve	ey area is experienc	ing slightly drier that	an normal clir	matic conditi	ions. Indicat	ors of wetland hydro	logy were recorded with this condition in mind.
Remarks:								
Wetland h	drology was obs	served in the	form of surfa	ice Surfa	ice Soil (	Cracks (	B6). Surface S	Soil Cracks (B6) are a secondary
wetland hy	drology indicato	r and does n	ot fulfill the re	equireme	ents for v	wetland	hydrology at 1	this sample point.

# T1SP01



Project/Site: PVGTB - PVH	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05-22					
Applicant/Owner: Purto Verde Holdings	State: Texas Sampling Point: T1SP02					
Investigator(s): AP, NA	Section, Township, Range: <u>N/A</u>					
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): <u>None</u> Slope (%): <u>1</u>					
Subregion (LRR): 183B Lat: 28	3.739138 Long: -100.50621 Datum: NAD83_2011					
Soil Map Unit Name: Rz - Rio Grande and Zalla soils, frequently flooded NWI classification:						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes <u>✓</u> No					
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area					
Hydric Soil Present? Yes No _✓	within a Wetland? Yes No $\checkmark$					
Wetland Hydrology Present? Yes No						

Remarks:

This sample point was recorded to represent a scrub-shrub upland area situated north of Seco Creek.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species
1. Prosopis glandulosa	30	$\checkmark$	FACU	That Are OBL, FACW, or FAC
2.				(excluding FAC-): 0 (A)
3.				Total Number of Dominant
4				Species Across All Strata: <u>4</u> (B)
··	30	- Total Co	/or	
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL_EACW_or EAC <sup>1</sup> 0.00 (A/B)
1. Acacia farnesiana	15	$\checkmark$	UPL	
2				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
				OBL species 0 x 1 = 0
4				FACW species $0$ x 2 = $0$
5				EAC species $0 \times 3 = 0$
(D)	15	= Total Co	/er	EACLI species $100$ x 4 = $400$
Cynodon dactylon	70	./	FACU	$\frac{1}{100} \frac{1}{100} \frac{1}$
	- 70			$\frac{1}{2} OPL species = \frac{1}{2} OPL species $
2. Cenchirus cinaris	30	✓	UPL	Column Lotals: $143$ (A) $023$ (B)
3				Prevalence Index = $B/A = 4.31$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				
8				$\_$ 3 - Prevalence index is $\leq 3.0$
9				4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	100	= Total Co	/er	
Woody Vine Stratum (Plot size: 30 ft r)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		= Total Co	/er	Vegetation
% Bare Ground in Herb Stratum				Present? Yes No _✓
Remarks:				
Hydrophytic vegetation was not do	minant	at this s	amnle	noint
inguispinguis vegetation was not uo	initiant d	at tino o	ampie	point.

SO	L
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Depth	Matrix		Redox Features		
(inches)	Color (moist)	%(	<u>Color (moist) % Type' I</u>	Loc <sup>2</sup> Texture	Remarks
0 - 10	2.54 5/3	100		Clay	
-					
-					
-					
-					
·					
-					
<sup>1</sup> Type: C=Co	oncentration, D=De	pletion, RM=Rec	duced Matrix, CS=Covered or Coated S	Sand Grains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LRR	ts, unless otherwise noted.)	Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Gleyed Matrix (S4)	1 cm N	luck (A9) (LRR I, J)
Histic Ep	oipedon (A2)		Sandy Redox (S5)	Coast I	Prairie Redox (A16) (LRR F, G, H)
Black HI	STIC (A3)		Stripped Matrix (S6)	Dark S	urrace (S7) (LRR G)
Stratified	l avers (A5) (LRR	F)	Loamy Gleved Matrix (F2)	LR	R H outside of MLRA 72 & 73)
1 cm Mu	ick (A9) (LRR F, G,	- ) H)	Depleted Matrix (F3)	Reduce	ed Vertic (F18)
Depleted	d Below Dark Surfa	ce (A11)	Redox Dark Surface (F6)	Red Pa	arent Material (TF2)
Thick Da	ark Surface (A12)		Depleted Dark Surface (F7)	Very S	hallow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox Depressions (F8)	Other (	Explain in Remarks)
2.5 cm N	Aucky Peat or Peat	(S2) (LRR G, H)	) High Plains Depressions (F16)		of hydrophytic vegetation and
<u> </u>		55) (ERR I )		unless	disturbed or problematic
Restrictive I	_ayer (if present):				
Type: CI	ay		_		
Depth (ind	<sub>ches):</sub> <u>10</u>		_	Hydric Soil	Present? Yes No _✓
Remarks:					
Hydric so	il components	were not ob	served at this sample point.	A hard clav laver	was encountered at 10 inches
helow the	soil surface				
	GV				
	arology indicators			Casarda	
Primary India	ators (minimum or	one required; ch		<u>Seconda</u>	ry Indicators (minimum of two required)
Surrace	vvater (A1)		Salt Crust (BTT)	Suna	ace Soll Cracks (Bo)
Saturatio	$\frac{1}{2} (A3)$		Hydrogen Sulfide Odor (C1)	Spai	sely vegetated Concave Surface (Bo)
Oaturatio	arks (B1)		Trycrogen Suilide Odor (C1)	Drail Ovid	lized Rhizospheres on Living Roots (C3)
Nater M	nt Deposits (B2)		Oxidized Rhizospheres on Living	Roots (C3) (w	here tilled)
Drift Der	osits (B3)		(where not tilled)	Crav	fish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence of Reduced Iron (C4)	Satu	ration Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)		Thin Muck Surface (C7)	Geo	morphic Position (D2)
Inundatio	on Vis ble on Aerial	Imagery (B7)	Other (Explain in Remarks)	FAC	-Neutral Test (D5)
Water-S	tained Leaves (B9)			Fros	t-Heave Hummocks (D7) (LRR F)
Field Obser	vations:				
Surface Wate	er Present?	Yes No _	✓ Depth (inches):		
Water Table	Present?	Yes No _	✓ Depth (inches):		
Saturation P	resent?	Yes No _	✓ Depth (inches):	Wetland Hydrology	/ Present? Yes No _✓
(includes cap	oillary fringe)			tione) if eveileble.	
Describe Re	Corded Data (Stream	n gauge, monito	ring well, aerial photos, previous inspec	ctions), if available:	alogy were recorded with this condition in mind
	, USAUL S AF I, the SURV	ey area is experienc		. maicators or wettand flydr	ology were recorded with this condition in MING.
Remarks:					
Wetland	hydrology	was not ok	oserved at this sample p	oint.	

# T1SP02

Photograph 1 Photograph 2 Northern view from sample point Eastern view from sample point Photograph taken: May 22, 2023 Photograph taken: May 22, 2023 Photograph 3 Photograph 4 Southern view from sample point Western view from sample point Photograph taken: May 22, 2023 Photograph taken: May 22, 2023

Project/Site: PVGTB - PVH	City/County: Eagle Pass/Maveri	ck County Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings	State	e: Texas Sampling Point: T2SP01
Investigator(s): AP, NA	Section, Township, Range: <u>N/A</u>	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, nor	e): None Slope (%): 1
Subregion (LRR): 183B	28.742602 Long: -1	00.503888 Datum: NAD83_2011
Soil Map Unit Name: LgA - Lagloria very fine sandy loa	0 to 1 percent slopes	NWI classification:
Are climatic / hydrologic conditions on the site typical for this tir	of year? Yes No _ ✓ (If no	o, explain in Remarks.)
Are Vegetation, Soil, or Hydrology sign	antly disturbed? Are "Normal Circ	cumstances" present? Yes <u>✓</u> No
Are Vegetation, Soil, or Hydrology natu	lly problematic? (If needed, expla	in any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	ving sampling point locations	transects, important features, etc.
Hydrophytic Vegetation Present? Yes No _	/	
Hydric Soil Present? Yes No _	within a Wetland?	Yes No ✓
Wetland Hydrology Present? Yes No _		
Remarks:		
This sample point was recorded to repres	nt an agricultural field locat	ed north of Seco Creek.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 ft r )	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC	( <b>a</b> )
2				(excluding FAC-):	_ (A)
3				Total Number of Dominant	
4				Species Across All Strata: 1	_ (B)
		= Total Co	ver	Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: 0.00	(A/B)
1			·	Drevelence Index werkeheet:	
2				Tatal % Occurrent	
3					
4				OBL species $0$ $x_1 = 0$	
5.				FACW species $0   x 2 = 0$	
		= Total Co	ver	FAC species $0   x 3 = 0$	
Herb Stratum (Plot size: 5 ft r)				FACU species <u>80</u> x 4 = <u>320</u>	
1. Cynodon dactylon	80	$\checkmark$	FACU	UPL species <u>5</u> x 5 = <u>25</u>	
2. Solanum elaeagnifolium	5		UPL	Column Totals: <u>85</u> (A) <u>345</u>	(B)
3.				4.05	
4				Prevalence Index = $B/A = 4.05$	
5				Hydrophytic Vegetation Indicators:	
6			·	1 - Rapid Test for Hydrophytic Vegetation	
7			·	2 - Dominance Test is >50%	
/			·	3 - Prevalence Index is $≤3.0^1$	
8			·	4 - Morphological Adaptations <sup>1</sup> (Provide su	upporting
9			·	data in Remarks or on a separate shee	t)
10			·	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	ain)
Woody Vine Stratum (Plot size: 30 ft r )	85	= Total Co	ver	<sup>1</sup> Indicators of hydric soil and wetland hydrology	/ muet
				be present, unless disturbed or problematic.	must
1			·		
2			·	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum	. <u></u>	= Total Co	ver	Present? Yes No _✓	
Remarks:					
				• .	
Hydrophytic vegetation was not doi	minant a	at this s	sample	point.	

S	Ο	I	L
•	•		_

Profile Desc	ription: (Describe	to the depth ne	eded to docur	nent the i	ndicator	or confirr	n the absence o	of indicators.)
Depth (inches)	Matrix		Redo	x Feature	S Type <sup>1</sup>		Texturo	Remarke
<u>(incries)</u> 0 - 10	2 5V 5/2	100		/0	<u>iype</u>			
0 10	2.31 3/3	100		·			Clay	
-								
-							<u>_</u>	
-								
-				<u> </u>				
				·				
							<u> </u>	
-				. <u> </u>				
-							<u> </u>	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	pletion, RM=Red	uced Matrix, CS	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all LRR	s, unless other	wise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy C	Gleyed Ma	atrix (S4)		1 cm Mi	uck (A9) ( <b>LRR I, J</b> )
Histic Ep	pipedon (A2)		Sandy F	Redox (S5	5)		Coast P	Prairie Redox (A16) (LRR F, G, H)
Black Hi	stic (A3)		Stripped	d Matrix (S	6)		Dark Su	urface (S7) (LRR G)
Hydroge	n Sulfide (A4)		Loamy I	Mucky Mir	neral (F1)		High Pla	ains Depressions (F16)
Stratified	Layers (A5) (LRR	F)	Loamy (	Gleyed Ma	atrix (F2)		(LRF	R H outside of MLRA 72 & 73)
	ICK (A9) (LRR F, G, 1 Below Dark Surfac	H)	Deplete	d Matrix (I Dark Surfa	F3) 200 (E6)		Reduce	d Vertic (F18) rept Material (TE2)
Depleted	ark Surface (A12)	e (ATT)	Deplete	d Dark Suite	ice (F7)		Verv Sh	nallow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox [	Depressio	ns (F8)		Other (E	Explain in Remarks)
2.5 cm N	lucky Peat or Peat (	(S2) (LRR G, H)	High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators o	of hydrophytic vegetation and
5 cm Mu	cky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	RA 72 & 7	73 of LRR	H)	wetland	hydrology must be present,
							unless o	disturbed or problematic.
Restrictive L	_ayer (if present):							
Type: Cla	ay							
Depth (inc	ches): 10						Hydric Soil F	Present? Yes No _✓
Remarks:								
Hydric soi	l components	were not obs	served at th	is samp	ole poin	t. A har	d clay layer	was encountered at 10 inches
below the	soil surface.							
	GY							
	atoro (minimum of c	no roquirodu ob	ok all that ann				Cocondor	, Indiantora (minimum of two required)
Primary Indic		one required, che		<u>y)</u>			Secondar	
	vvater (A1)		Salt Crust	(B11)	- (D40)		<u>▼</u> Suna	ace Soll Cracks (B6)
High vva	iter Table (A2)			Vertebrate	S (B13)		Spars	sely vegetated Concave Surface (B8)
	on (A3) orke (B1)		Hyurogen	Sunue O	uur (UT) Table (CC)			iaye Fallettis (DTU)
Valer w	alks (DT)			hizoonho		ina Pooto	(C2) (with	
Seamer	$\frac{DC}{DC} = \frac{DC}{DC} = DC$			nt tilled	ICS UII LIV	ING ROOLS	(US) (Wr	fish Burrows (C8)
	(B3)		Presence	of Reduce	d Iron (C/	I)	Ciayi Satur	ration Visible on Aerial Imageny (CQ)
Iron Den	(B5)		Thin Muck	Surface (	(C7)	"/	Geon	norphic Position (D2)
	on Vis ble on Aerial	Imagery (B7)	Other (Evr		omarks)		EAC-	Neutral Test (D5)
Water-St	tained Leaves (B9)				inano)		Frost	-Heave Hummocks (D7) (I RR F)
Field Observ	vations:							
Surface Wate	er Present?	les No	<ul> <li>Depth (in)</li> </ul>	ches).				
Water Table	Present?	(es No	✓ Depth (in	ches):		-1		
Saturation D			✓ Dopth (in	chec).		- Wet	land Hydrology	Present? Yes No v
(includes cap	billary fringe)			ches)			ianu nyurology	
Describe Red	corded Data (stream	n gauge, monitor	ing well, aerial p	ohotos, pr	evious ins	pections),	, if available:	
According to the	USACE's APT, the surve	ey area is experienci	ng slightly drier tha	n normal clii	matic condit	ions. Indicat	ors of wetland hydro	plogy were recorded with this condition in mind.
Remarks:								
Wetland hy	drology was ob	served in the	form of surfa	ce Surfa	ace Soil (	Cracks (	B6). Surface S	Soil Cracks (B6) are a secondarv
wetland hy	drology indicato	r and do not f	ulfill the requ	uirement	s for we	tland hy	drology at thi	s sample point.

# T2SP01



,	'	City/County	Lugicit		Sam	ipling Date: _	2024-03-22
Applicant/Owner: Purto Verde Holdings				State: Te	xas Sam	pling Point:	T2SP02
Investigator(s): AP, NA		Section, Township, Range: N/A					
Landform (hillslope, terrace, etc.): Flat		Local relief (concave, convex, none): <u>None</u> Slope (%): <u>3</u>					be (%): <u>3</u>
Subregion (LRR): I 83B	Lat: 28.	740905		_ Long: -100.50	02864	Datu	m: NAD83_201
Soil Map Unit Name: LgB - Lagloria very fine sar	dy loam, 1 to	3 percent	slopes	NWI	classification	:	
Are climatic / hydrologic conditions on the site typical for	or this time of yea	ar? Yes	No	✓ (If no, exp	lain in Remar	ks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are	'Normal Circumsta	ances" presei	nt? Yes	No 🗸
Are Vegetation , Soil , or Hydrology	naturally pro	blematic?	(If ne	eded, explain any	answers in l	Remarks.)	
SUMMARY OF FINDINGS – Attach site m	ap showing	samplin	g point l	ocations, trar	nsects, im	portant fe	atures, etc.
Hydrophytic Vegetation Present? Yes	No 🗸	la th	o Somoloo	Aroo			
Hydric Soil Present? Yes	No∕	with	e Samplec in a Wetla	nd? Ye	26	No √	
Wetland Hydrology Present? Yes	No∕	With					
Remarks:							
This sample point was recorded to repre-	esent a scrul	b-shrub	upland a	rea located ir	n between	Seco Cre	ek to the
south and agricultural fields to the north	) <b>.</b>						
VEGETATION – Use scientific names of p	plants.						
Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Te	st workshee	t:	
1. Prosopis glandulosa	30	<u>↓</u>	FACU	Number of Dom That Are OBL.	inant Specie FACW, or FA	s C	
2.				(excluding FAC	-):	0	(A)
3				Total Number o	f Dominant		
4				Species Across	All Strata:	2	(B)
Sapling/Shrub Stratum (Plot size: 15 ft r	30	= Total Cov	ver	Percent of Dom That Are OBL,	iinant Species FACW, or FA	s C: <u>0.00</u>	(A/B)
1				Prevalence Inc	lex workshe	et:	
3				Total % Co	ver of:	Multiply	/ by:
4				OBL species	0	x 1 = 0	
5.				FACW species	0	x 2 = 0	
		= Total Cov	ver	FAC species	0	x 3 = 0	
Herb Stratum (Plot size: 5 ft r )	05			FACU species	30	$x_4 = \frac{120}{125}$	
1. Cenchrus ciliaris	25	<u> </u>	UPL	UPL species	<u>25</u> 55	$x 5 = \frac{125}{245}$	(D)
2				Column Totals:		(A) <u>240</u>	<u>, (В)</u>
3				Prevalenc	e Index = B/	A = 4.45	
4				Hydrophytic V	egetation Ind	dicators:	
6.				1 - Rapid T	est for Hydro	phytic Vegeta	ation
7.				2 - Domina	nce Test is >	50%	
8				3 - Prevale	nce Index is a	≤3.0 <sup>1</sup>	
9				4 - Morpho data in I	logical Adapta Remarks or o	ations' (Provi n a separate	de supporting sheet)
10				Problemati	c Hydrophytic	Vegetation <sup>1</sup>	(Explain)
Woody Vine Stratum (Plot size: <u>30 ft r</u> )	_25	= Total Cov	ver	<sup>1</sup> Indicators of hyber present, unle	ydric soil and ess disturbed	wetland hydr or problemat	ology must ic.
2.				Hydrophytic			
		= Total Cov	ver	Vegetation			1
% Bare Ground in Herb Stratum				Present?	Yes	No	/

S	Ο	I	L
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IN THEST	Color (moist)	0/_	Color (moist)	0/_		$1 cc^2$	Texture	Pemarka
0 - 10	2 5V 5/2	100		70	Type	LUC	Silty Clay	Remarks
0-10	2.51 5/5						Silty Clay	
-								
-								
-								
-				·				
				. <u> </u>			<u> </u>	
-							<u> </u>	
-								
-								
Type: C=Co	ncentration D=Der	oletion RM=Re	educed Matrix CS	S=Covered	or Coate	d Sand G	rains <sup>2</sup> Loc	ation: PI =Pore Lining M=Matrix
vdric Soil li	ndicators: (Applic	cable to all LR	Rs. unless other	rwise note	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (	Δ1)		Sandy (	Gleved Ma	triv $(S4)$			
Histic Eni	inedon (A2)		Sandy F	Redox (S5)			Coast I	Prairie Redox (A16) (I RR F. G. H)
Black His	tic (A3)		Stripped	d Matrix (S	6)		Dark S	urface (S7) (LRR G)
Hydroger	n Sulfide (A4)		Loamy	Mucky Min	eral (F1)		High P	lains Depressions (F16)
Stratified	Layers (A5) (LRR	F)	Loamy	Gleyed Ma	trix (F2)		(LR	R H outside of MLRA 72 & 73)
_ 1 cm Mud	ck (A9) (LRR F, G,	H)	Deplete	d Matrix (F	3)		Reduce	ed Vertic (F18)
_ Depleted	Below Dark Surface	ce (A11)	Redox I	Dark Surfa	ce (F6)		Red Pa	arent Material (TF2)
Thick Da	rk Surface (A12)		Deplete	d Dark Su	face (F7)		Very S	hallow Dark Surface (TF12)
Sandy M	ucky Mineral (S1)		Redox I	Depressior	ıs (F8)		Other (	Explain in Remarks)
2.5 cm M	ucky Peat or Peat	(S2) (LRR G, H	H) High Pla	ains Depre	ssions (F	16)	<sup>3</sup> Indicators	of hydrophytic vegetation and
5 cm Muo	cky Peat or Peat (S	63) ( <b>LRR F</b> )	(ML	RA 72 & 7	3 of LRR	H)	wetland	hydrology must be present,
	·····						unless	disturbed or problematic.
	ayer (if present):							
Type: Cla	iy 10		_					
<b>D</b> = = 11= /: =								Dracant? Vac No V
Depth (Inc	nes). <u>10</u>						Hydric Soli	
Depth (Inc Remarks:	nes). <u>10</u>						Hydric Soli	
Remarks: Iydric soil	components	were not o	— bserved at th	nis samp	le poin	t. A har	d clay layer	was encountered at 10 inch
Inc Remarks: Iydric soil elow the	components soil surface.	were not o	 bserved at th	iis samp	le poin	t. A har	d clay layer	was encountered at 10 inch
Incentified and a second secon	components soil surface.	were not o	bserved at th	iis samp	le poin	t. A har	d clay layer	was encountered at 10 inch
Incention of the second	components soil surface.	were not o	bserved at th	iis samp	le poin	t. A har	d clay layer	was encountered at 10 inch
Ight (Inc Remarks: Iydric soil elow the YDROLO( Vetland Hyd	components soil surface. GY rology Indicators	were not ol	– bserved at th	iis samp	le poin	t. A har	d clay layer	was encountered at 10 inch
Depth (Inc Remarks: Iydric soil elow the YDROLO( Vetland Hyd Primary Indica	components soil surface. 3Y rology Indicators	were not ol	bserved at th	iis samp	le poin	t. A har	d clay layer	was encountered at 10 inch
Depth (Inc Remarks: Iydric soil elow the YDROLO( Yetland Hyd Primary Indica Surface V	components soil surface. GY rology Indicators ators (minimum of o Water (A1)	were not o	bserved at th	uis samp y) (B11)	le poin	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa	was encountered at 10 inch
Depth (Inc Remarks: Iydric soil elow the YDROLOC Yetland Hyd Yrimary Indica Surface V High Wat	components soil surface. GY rology Indicators ators (minimum of o Vater (A1) er Table (A2)	were not o	heck all that appl Salt Crust Aquatic In	y) (B11) vertebrates	le poin	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa Spar	was encountered at 10 inch ry Indicators (minimum of two required ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8
Depth (Inc emarks: ydric soil elow the (DROLOC (Vetland Hyd rimary Indica Surface V High Wat Saturatio	components soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3)	were not o	heck all that appl Salt Crust Aquatic In Hydrogen	v) (B11) vertebrates Sulfide Od	le poin 6 (B13) lor (C1)	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa Spar Drain	was encountered at 10 inch ry Indicators (minimum of two required ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10)
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Depth (Inc temarks: ydric soil elow the YDROLOO Yetland Hyd trimary Indica Surface V High Wat Saturatio Water Ma Sediment	components soil surface. GY rology Indicators ators (minimum of o Water (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2)	were not o	heck all that appl Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	is samp y) (B11) vertebrates Sulfide Od on Water T Rhizospher	le poin s (B13) lor (C1) able (C2) res on Livi	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa <u></u> Drain <u></u> Oxid (C3) (w	was encountered at 10 inch ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled)
Depth (inc Remarks: Iydric soil elow the YDROLOC Vetland Hyd Primary Indica Surface V High Wat Saturatio Saturatio Saturatio Dift Dep	components soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	were not o	heck all that appl Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where	v) (B11) vertebrates Sulfide Od on Water T Rhizospher not tilled)	le poin s (B13) lor (C1) able (C2) es on Livi	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray	was encountered at 10 inch ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) ized Rhizospheres on Living Roots (C here tilled) rfish Burrows (C8)
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Depth (inc Remarks: Iydric soil elow the YDROLOC Vetland Hyd Primary Indica Control Control Surface V High Wate High Water Ma Sediment Drift Depu Algal Mate Iron Depo	components soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5)	were not o	heck all that appl heck all that appl Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F (where f (where f Thin Muck	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduce	s (B13) (or (C1) able (C2) es on Livi d Iron (C4	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu Geo	was encountered at 10 inch ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) ized Rhizospheres on Living Roots (C here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2)
Depth (Inc Remarks: Iydric soil elow the YDROLOC Vetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Depu Algal Mat Iron Depu Inundatio	components soil surface. GY rology Indicators ators (minimum of of Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Vis ble on Aerial	were not of	heck all that appl heck all that appl Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F (where c Thin Muck Other (Ex)	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduce Surface (i Dain in Rei	le point s (B13) lor (C1) able (C2) es on Livi d Iron (C4 C7) marks)	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa <u>Span</u> <u>Drain</u> (C3) (w <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u> <u>C3</u>	ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5)
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Depth (Inc Remarks: Iydric soil elow the YDROLOO Yetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Sediment Drift Dept Algal Mat Iron Dept Inundatio Water-Sta	components soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of	heck all that appl Salt Crust Salt Crust Aquatic In Dry-Sease Oxidized F (where f Presence Thin Muck Other (Exp	y) (B11) vertebrates Sulfide Od on Water T Rhizospher not tilled) of Reduce Surface (( blain in Rei	le poin s (B13) lor (C1) able (C2) res on Livi d Iron (C4 C7) marks)	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa <u>✓</u> Surfa <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros	ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (Inc Remarks: Iydric soil Pelow the YDROLOO Vetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Sediment Algal Mat Iron Depo Inundatio Water-Sta Field Observ	components soil surface. GY rology Indicators ators (minimum of of Water (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of : one required; c Imagery (B7) res No	bserved at the heck all that appl 	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduces Surface ( blain in Reduces Surface)	le poin s (B13) lor (C1) able (C2) res on Livi d Iron (C4 C7) marks)	t. A har	d clay layer <u>Seconda</u> <u>✓</u> Surfa <u>✓</u> Surfa <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros	was encountered at 10 inch ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (Inc Remarks: Aydric soil Pelow the YDROLOC Vetland Hyd Primary Indica Surface V High Wate Saturatio Water Ma Sediment Sediment Orift Depu Algal Mate Iron Depu Inundatio Water-St Field Observ Surface Wate Vater Table F	components soil surface. Soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of one required; c Imagery (B7) Yes No Yes No	heck all that appl 	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduce : Surface (( blain in Rel ches): ches):	le poin (B13) (or (C1) able (C2) es on Livi d Iron (C4 C7) marks)	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa <u></u> Drain <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros	ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) ized Rhizospheres on Living Roots (C here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (Inc Remarks: Iydric soil elow the YDROLOC Vetland Hyd Primary Indica Surface V High Wate Saturatio Water Ma Sediment Orift Dept Algal Mate Iron Dept Nater-Sta Sield Observ Surface Wate Vater Table F Saturation Pro	components soil surface. Soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of : one required; c imagery (B7) Yes No Yes No Yes No	heck all that appl 	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduce Surface (i blain in Rei ches): ches):	le point s (B13) lor (C1) able (C2) es on Livi d Iron (C4 C7) marks)	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa <u></u> Drain <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros	was encountered at 10 inch ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 nage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (Inc Remarks: Iydric soil elow the YDROLOC Vetland Hyd Primary Indica Surface V High Wate Saturatio Water Ma Sediment Sediment Drift Depte Algal Mate Iron Depte Inundatio Water-Sta Sield Observ Surface Wate Vater Table F Saturation Pro ncludes cap Describe Rec	components soil surface. SY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of : one required; c imagery (B7) Yes No Yes No Yes No Yes No	bserved at th	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduces Surface (f blain in Ref ches): ches): ches):	le point s (B13) lor (C1) able (C2) es on Livi d Iron (C4 C7) marks)	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa <u></u> Spar <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cay <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros and Hydrology if available:	was encountered at 10 inch ry Indicators (minimum of two required ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8) nage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled) rfish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) y Present? Yes No
Depth (Inc Remarks: Iydric soil elow the YDROLOO Vetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Sediment Algal Mat Iron Depo Inundatio Water-St Surface Water Vater Table F Saturation Pre ncludes cap Describe Rec Scording to the	components soil surface. GY rology Indicators: ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of one required; c one required; c lmagery (B7) Yes No Yes No Yes No Yes No res No res No res No res No	bserved at the heck all that appl 	y) (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduces Surface (( blain in Red ches): ches): ches): ches): photos, pre	le point s (B13) for (C1) able (C2) es on Livi d Iron (C4 C7) marks) evious ins natic conditi	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa <u>√</u> Surfa <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros land Hydrology if available: ors of wetland hydr	was encountered at 10 inch ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B8 hage Patterns (B10) lized Rhizospheres on Living Roots (C here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) / Present? Yes No ology were recorded with this condition in mir
Depth (Inc emarks: ydric soil elow the /DROLOO /etland Hyd rimary Indica 	components soil surface. GY rology Indicators ators (minimum of of Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Vis ble on Aerial ained Leaves (B9) ations: r Present?	were not of : one required; c imagery (B7) Yes No Yes No Yes No Yes No n gauge, monit ey area is experier	bserved at the heck all that appl 	is samp (B11) vertebrates Sulfide Oc on Water T Rhizospher not tilled) of Reduces Surface (( blain in Red ches): ches): ches): photos, pre	le poin s (B13) lor (C1) able (C2) res on Livi d Iron (C4 C7) marks) evious ins	t. A har	d clay layer <u>Seconda</u> <u>√</u> Surfa <u></u> Spar <u></u> Drain <u></u> Oxid (C3) (w <u></u> Cray <u></u> Satu <u></u> Geo <u></u> FAC <u></u> Fros land Hydrology if available: ors of wetland hydr	was encountered at 10 incl ry Indicators (minimum of two require ace Soil Cracks (B6) rsely Vegetated Concave Surface (B6 nage Patterns (B10) lized Rhizospheres on Living Roots ( here tilled) fish Burrows (C8) ration Visible on Aerial Imagery (C9) morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F) / Present? Yes No sology were recorded with this condition in minimum of two requires vertices and the solution of two requires ace Soil Cracks (B6) requires and two requires requires and two requires and two requires requires and two requires and two requires and two requires requires and two requires and two requires and two requires requires and two requires and two requires requires and two requires and two requires requires and two requ

#### T2SP02



Project/Site: PVGTB - PVH	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings	State: Texas Sampling Point: T2SP03
Investigator(s): <u>AP, NA</u>	Section, Township, Range: <u>N/A</u>
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): None Slope (%): 10
Subregion (LRR): 183B Lat: 28	8.739878 Long: -100.502255 Datum: NAD83_2011
Soil Map Unit Name: LgB - Lagloria very fine sandy loam, 1 to	o 3 percent slopes NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	rear? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Normal Circumstances" present? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes No _√         Hydric Soil Present?       Yes No _√         Wetland Hydrology Present?       Yes No _√	Is the Sampled Area within a Wetland? Yes No∕

Remarks:

This sample point was recorded to represent a scrub-shrub upland area located south of Seco Creek.

Tree Stratum (Plot size: 30 ft r )	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:
A Procopic glanduloca	<u>10</u>			Number of Dominant Species
	10		FACU	Inat Are OBL, FACW, or FAC $(excluding FAC-)$ $0$ (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>5</u> (B)
	10	= Total Co	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: $0.00$ (A/B)
1. Vachellia farnesiana	25	✓	FACU	
<sub>2.</sub> Acacia rigidula	15	$\checkmark$	UPL	Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
A.				OBL species 0 x 1 = 0
4				FACW species $0$ x 2 = $0$
5	40			FAC species $0$ x 3 = $0$
Harb Stratum (Distance 5 ft r )	40	= Total Co	/er	EACLI species $45$ $x_4 = 180$
<u>Herb Stratum</u> (Piot size. <u>5111</u> )	10	./	IIDI	$\frac{1}{100} \text{ species} \frac{10}{25} \text{ species} \frac{100}{100} \text{ species} \frac{100}{1$
	10			$\frac{1}{20} = \frac{1}{20} $
2. Opuntia stricta	10	<b>v</b>	FACU	Column Totals: $70$ (A) $303$ (B)
3				Prevalence index = $B/A = 4.35$
4				
5				
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	20	= Total Co	/er	
Woody Vine Stratum (Plot size: 30 ft r )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2.				Hydrophytic
		= Total Co	/er	Vegetation
% Bare Ground in Herb Stratum		rotal oo		Present? Yes No _✓
Remarks:				
Hydrophytic vegetation was not do	ninant a	at this s	ample	point
	mante	1000	ampic	

SO	L
----	---

Depth	Matrix		Redox Features		
(inches)	Color (moist)	<u>%</u> C	olor (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks	
0 - 10	2.5Y 5/3	100		Silty Clay	
-					
-					
-					
-					
-					
-					
<sup>1</sup> Type: C=C	oncentration D=Der	letion RM=Red	uced Matrix CS=Covered or Coate	ed Sand Grains <sup>2</sup> Location: PL=Pore Lining M=Matrix	
Hydric Soil	Indicators: (Applic	able to all LRR	s, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Sandy Gleved Matrix (S4)	1 cm Muck (A9) (LRR I, J)	
Histic Ep	pipedon (A2)		Sandy Redox (S5)	Coast Prairie Redox (A16) (LRR F, G, H)	
Black Hi	istic (A3)		Stripped Matrix (S6)	Dark Surface (S7) (LRR G)	
Hydroge	en Sulfide (A4)		Loamy Mucky Mineral (F1)	) High Plains Depressions (F16)	
Stratified	d Layers (A5) (LRR	F)	Loamy Gleyed Matrix (F2)	(LRR H outside of MLRA 72 & 73)	
1 cm Mu	uck (A9) ( <b>LRR F, G,</b>	H)	Depleted Matrix (F3)	Reduced Vertic (F18)	
Deplete	d Below Dark Surfac	ce (A11)	Redox Dark Surface (F6)	Red Parent Material (TF2)	
Thick Da	ark Surface (A12)		Depleted Dark Surface (F7	7) Very Shallow Dark Surface (TF12)	
	lucky Mineral (S1)		Redox Depressions (F8)	Other (Explain in Remarks)	
2.5 cm r	NUCKY Peat of Peat	(52) (LRR G, H)	(ML PA 72 & 73 of L PE	<b>P H</b> ) wetland bydrology must be present	
0 cm Mc				unless disturbed or problematic	
Restrictive	Laver (if present):				
Type: CI	ay				
Depth (in	<sub>ches):</sub> 10			Hvdric Soil Present? Yes No ✓	~
Remarks:				.,	
Lludria aa	il componente :	wara nat ah	conved at this comple pair	at A hard alow lower was appoundered at 10 inc	haa
		were not ob:	served at this sample poir	It. A hard clay layer was encountered at 10 Inc	nes
HIDROLO	GT				
Wetland Hy	drology Indicators				
Primary India	cators (minimum of o	one required; che	eck all that apply)	Secondary Indicators (minimum of two requir	<u>ed)</u>
Surface	Water (A1)		Salt Crust (B11)	Surface Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic Invertebrates (B13)	Sparsely Vegetated Concave Surface (B	38)
Saturatio	on (A3)		Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)	
Water M	larks (B1)		Dry-Season Water Table (C2)	2) Oxidized Rhizospheres on Living Roots (	(C3)
Sedimer	nt Deposits (B2)		Oxidized Rhizospheres on Liv	ving Roots (C3) (where tilled)	
Drift Dep	posits (B3)		(where not tilled)	Crayfish Burrows (C8)	
Algal Ma	at or Crust (B4)		Presence of Reduced Iron (C	(C9) Saturation Visible on Aerial Imagery	)
Iron Dep	oosits (B5)		Thin Muck Surface (C7)	Geomorphic Position (D2)	
Inundati	on Vis ble on Aerial	Imagery (B7)	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Water-S	tained Leaves (B9)			Frost-Heave Hummocks (D7) (LRR F)	
Field Obser	vations:		,		
Surface Wat	er Present?	res No	✓ Depth (inches):		
Water Table	Present?	/es No	✓ Depth (inches):		
Saturation P	resent?	res No	✓ Depth (inches):	Wetland Hydrology Present? Yes No∕	<u> </u>
Describe Re	corded Data (stream	auge, monitor	ing well, aerial photos, previous ing	spections), if available:	
According to the	USACE's APT, the surve	ey area is experienci	ng slightly drier than normal climatic condi	itions. Indicators of wetland hydrology were recorded with this condition in m	nind.
Remarks:	•	•	·		
wetland	i nyarology v	vas not ob	served at this sample	e point.	

#### T2SP03



Photograph taken: May 22, 2023

Wetland Data Sheets Appendix B

Project/Site: PVGTB - PVH	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05					
Applicant/Owner: Purto Verde Holdings	wner: Purto Verde Holdings State: Texas Sampling Point: T					
Investigator(s): AP, NA	_ Section, Township, Range: <u>N/A</u>					
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex, none): Undulating Slope (%): 15					
Subregion (LRR): 183B Lat: 28	3.742145	Long: -100.499229		Datum:	NAD83_2011	
Soil Map Unit Name: LgB - Lagloria very fine sandy loam, 1 to	o 3 percent slop	es NWI classific	ation:			
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes	No 🗹 (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significantly	y disturbed?	Are "Normal Circumstances" p	present? Yes	<u>,</u> ✓	_ No	
Are Vegetation, Soil, or Hydrology naturally pr	roblematic?	(If needed, explain any answe	rs in Remarks	s.)		
SUMMARY OF FINDINGS – Attach site map showing	g sampling po	int locations, transects	, importan	t feat	ures, etc.	

Hydrophytic Vegetation Present?	Yes	_ No 🖌	Is the Sampled Area		
Hydric Soil Present?	Yes	No	within a Wotland?	Voc	
Wetland Hydrology Present?	Yes	_ No _ 🗸		165	
Remarks:			•		

This sample point was recorded just outside of the survey area to demonstrate that the survey area is separated from Seco Creek by upland habitat. Conditions present within the sample plot appear consistent with those seen within the survey area.

Tree Stratum (Distaine) 30 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size. <u>30 ret</u> )	<u>% Cover</u>	<u>Species</u>		Number of Dominant Species
	15	•	FACU	$\begin{bmatrix} \text{Ihat Are OBL, FACW, or FAC} \\ (excluding FAC-) \end{bmatrix} \begin{bmatrix} 0 \\ (A) \end{bmatrix}$
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>4</u> (B)
	15	= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )		,		That Are OBL, FACW, or FAC: 0.00 (A/B)
1. Acacia rigidula	30	✓	UPL	Dravalance Index workshoets
2. Guaiacum angustifolium	20		UPL	
3				I otal % Cover of: Multiply by:
4				OBL species $0$ $x = 0$
5.				FACW species $0   x^2 = 0$
	50	= Total Cov	/er	FAC species $0 \times 3 = 0$
Herb Stratum (Plot size: <u>5 ft r</u> )				FACU species <u>15</u> x 4 = <u>60</u>
1. Cenchrus ciliaris	45	$\checkmark$	UPL	UPL species <u>95</u> x 5 = <u>475</u>
2.				Column Totals: 110 (A) 535 (B)
3				
4				Prevalence Index = B/A = 4.86
				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
0				2 - Dominance Test is >50%
/				3 - Prevalence Index is $\leq 3.0^{1}$
8				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
20 ft r	45	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 11 )				be present unless disturbed or problematic
1				
2				Hydrophytic
		= Total Cov	/er	Vegetation Present? Ves No V
% Bare Ground in Herb Stratum				
Remarks:				
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.

Profile Desc	ription: (Describe	to the depth ne	eded to docum	nent the i	ndicator or con	firm the absen	ce of indicators.)
Depth (inches)	Color (moist)	% <u>C</u>	Nedox olor (moist)	<u>eatures %</u>	s Type <sup>1</sup> Loc <sup>2</sup>	<sup>2</sup> Texture	Remarks
0 - 18	2.5Y 6/3	100			<u>,po</u> <u></u>	Clav	
					·		
					·		
-					·		
-							
-							
-							
_							
					·		
1Transi 0-0			used Matrix CC				
Type: C=Co	oncentration, D=Dep Indicators: (Applic	bletion, RM=Redu	uced Matrix, CS	=Covered	d or Coated Sand	d Grains. <sup>2</sup> L	.ocation: PL=Pore Lining, M=Matrix.
Histosol			Sandy G	leved Ma	(S4)	1 cn	Muck (A9) (I RR I I)
Histic Er	(A) bipedon (A2)		Sandy C	edox (S5	)	1 cn Coa	st Prairie Redox (A16) (I RR F. G. H)
Black Hi	stic (A3)		Stripped	Matrix (S	, (6)	Darl	Surface (S7) (LRR G)
Hvdroge	en Sulfide (A4)		Loamv N	/uckv Mir	neral (F1)	Hiat	Plains Depressions (F16)
Stratified	Layers (A5) (LRR	F)	Loamy C	Sleved Ma	atrix (F2)	(	LRR H outside of MLRA 72 & 73)
1 cm Mu	ick (A9) (LRR F, G,	H)	Depleted	d Matrix (I	=3)	Red	uced Vertic (F18)
Depleted	d Below Dark Surfac	e (A11)	Redox D	ark Surfa	ice (F6)	Red	Parent Material (TF2)
Thick Da	ark Surface (A12)		Depleted	d Dark Su	rface (F7)	Very	Shallow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox D	epressio	ns (F8)	Othe	er (Explain in Remarks)
2.5 cm N	Aucky Peat or Peat	(S2) ( <b>LRR G, H</b> )	High Pla	ins Depre	essions (F16)	<sup>3</sup> Indicato	rs of hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR F</b> )	(MLF	RA 72 & 7	73 of LRR H)	wetla	and hydrology must be present,
Destriction	((					unle	ss disturbed or problematic.
Tuno	Layer (if present):						
Type.							
Deptil (Int	ciles).					Hydric 3	
Remarks:							
Hydric s	oil compone	nts were n	ot observ	ed at	this sampl	le point.	
HYDROLO	GY						
Wetland Hy	drology Indicators	:					
Primary India	cators (minimum of o	one required; che	ck all that apply	()		Secor	dary Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)		S	urface Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Inv	rertebrate	s (B13)	S	parsely Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen \$	Sulfide Od	dor (C1)	D	rainage Patterns (B10)
Water M	larks (B1)		Dry-Seaso	n Water T	able (C2)	0	xidized Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized R	hizosphe	res on Living Ro	ots (C3)	(where tilled)
Drift Dep	posits (B3)		(where n	ot tilled)		C	rayfish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence of	of Reduce	d Iron (C4)	S	aturation Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)		Thin Muck	Surface (	C7)	G	eomorphic Position (D2)
Inundatio	on Vis ble on Aerial	Imagery (B7)	Other (Exp	lain in Re	marks)	F.	AC-Neutral Test (D5)
Water-S	tained Leaves (B9)					F	rost-Heave Hummocks (D7) (LRR F)
Field Obser	vations:						
Surface Wate	er Present?	res No	<ul> <li>Depth (inc</li> </ul>	hes):			
Water Table	Present?	/es No	✓ Depth (inc	hes):			
Saturation P	resent?	/es No	✓ Depth (inc	thes):	v	Vetland Hydrold	ogy Present? Yes No ✓
(includes cap	pillary fringe)						
Describe Re	corded Data (stream	n gauge, monitori	ng well, aerial p	hotos, pr	evious inspectior	ns), if available:	
According to the	e USACE's APT, the surve	ey area is experiencir	ng slightly drier than	n normal clir	matic conditions. Ind	licators of wetland h	ydrology were recorded with this condition in mind.
Remarks:							

Wetland hydrology was not observed at this sample point.

# T3SP01



Project/Site: PVGTB - PVH	City/County: _	Eagle Pass/Maverick County	Sampling Date: 2024-05-22			
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: T3SP02			
Investigator(s): AP, NA	Section, Towr	Section, Township, Range: N/A				
Landform (hillslope, terrace, etc.): Flat	Local relief (c	oncave, convex, none): None	Slope (%): <u>1</u>			
Subregion (LRR): 183B Lat: 2	28.741836	Long: -100.499242	Datum: NAD83_2011			
Soil Map Unit Name: MKC - Maverick association, undulating	ng	NWI classific	ation:			
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes	No 🖌 (If no, explain in R	emarks.)			
Are Vegetation, Soil, or Hydrology significan	tly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If needed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No	- Is the	Sampled Area				

Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	Is the Sampled Area within a Wetland?	Yes	No 🖌
Remarks:				

This sample point was recorded in an slight depression identified in LiDAR data that extends from Seco Creek. Sample point recorded to demonstrate that aquatic conditions are absent and to establish that this area is scrub-shrub upland habitat.

20 <del>ft</del> -	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 It I	<u>% Cover</u>	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC	<pre>/ • `</pre>
2				(excluding FAC-): 0 (A	(A)
3				Total Number of Dominant	
4.				Species Across All Strata: 2 (E	B)
		= Total Cov	/er	Demonst of Deminent Creation	
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL_FACW_or FAC <sup>-</sup> 0.00 (A	A/B)
1. Prosopis glandulosa	50	$\checkmark$	FACU	(	,
2				Prevalence Index worksheet:	
3				Total % Cover of: Multiply by:	
				OBL species 0 x 1 = 0	
4			<u> </u>	FACW species $0$ x 2 = $0$	
5				EAC species $0$ $x_3 = 0$	
bill the second s	50	= Total Cov	/er	$\frac{1}{50} = \frac{1}{50} $	
Herb Stratum (Plot size: <u>51(1</u> ))	25	/		FACU species $30$ $x 4 = 200$	
1. Cenchrus clians	25	<b>√</b>	UFL	UPL species $23$ $x 5 = 123$	
2				Column Totals: 75 (A) 325	(B)
3				Drevelance index $= D/A = -4.33$	
4	<u> </u>				
5.				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
7				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
0			·	4 - Morphological Adaptations <sup>1</sup> (Provide support	orting
9				data in Remarks or on a separate sheet)	-
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	1
20  ft r	25	= Total Cov	/er		
Woody Vine Stratum (Plot size: 30 TT )				be present unless disturbed or problematic	st
1					
2				Hydrophytic	
		= Total Cov	/er	Vegetation	
% Bare Ground in Herb Stratum					
Remarks:					
Hydrophytic vegetation was not obs	erved a	at this s	ample	point.	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix			Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0 - 8	2.5Y 5/3	100					Silty Clay		
-									
·							·		
-									
-									
-									
-									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.									
Hydric Soil	Indicators: (Applie	cable to all LR	Rs, unless othe	rwise note	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Sandy (	Gleyed Ma	ıtrix (S4)		1 cm M	1uck (A9) ( <b>LRR I, J</b> )	
Histic Ep	Sandy I	Sandy Redox (S5)			Coast Prairie Redox (A16) (LRR F, G, H)				
Black Hi	Stripped	Stripped Matrix (S6)			Dark Surface (S7) (LRR G)				
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1)							High P	lains Depressions (F16)	
Stratified Layers (A5) (LRR F) Loamy Gleyed Matrix (F2)						(LR	R H outside of MLRA 72 & 73)		
1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F3)							Reduc	ed Vertic (F18)	
Depleted Below Dark Surface (A11) Redox Dark Surface (F6)							Red Parent Material (TF2)		
Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12)									
Sandy Mucky Mineral (S1) Redox Depressions (F8) Other (Explain in Remarks)									
2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Indicators of hydrophytic vegetation and									
S CTI MUCKY PEAT OF PEAT (53) (LKK F) (MLRA /2 & 73 of LRR H) wetland hydrol								disturbed or problematic	
Pestrictive Laver (if present):									
	av								
Depth (inches): <u>o</u>							Hydric Soil	Present? Yes <u>No V</u>	
Remarks:									
Hydric s	oil compone	ents were	not observ	ved at	this sa	ample	noint		
l ly arro o				loa at			ponne		
	CV								
	Gi								
Wetland Hy	drology Indicators	:							
Primary India	cators (minimum of	one required; c	heck all that appl	y)			Seconda	ary Indicators (minimum of two required)	
Surface Water (A1) Salt Crust (B11)							✓ Surf	ace Soil Cracks (B6)	
High Water Table (A2) Aquatic Invertebrates (B13)						Spa	rsely Vegetated Concave Surface (B8)		
Saturation (A3) Hydrogen Sulfide Odor (C1)							Drai	nage Patterns (B10)	
Water Marks (B1) Dry-Season Water Table (C2) Oxidized Rhizospheres on Living Roots (C3)									
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled)									
Drift Deposits (B3) (where not tilled) Crayfish Burrows (C8)									
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation Visible on							ration Visible on Aerial Imagery (C9)		
Iron Deposits (B5) Thin Muck Surface (C7)						Geo	morphic Position (D2)		
Inundation Vis ble on Aerial Imagery (B7) Other (Explain in Remarks)						FAC	-Neutral Test (D5)		
Water-Stained Leaves (B9) Frost-Heave Hummocks (D7) (LRR F)									
Field Obser	vations:								
Surface Wate	er Present?	Yes No	✓ Depth (in	ches):					
Water Table Present? Yes No <u>✓</u> Depth (inches):									
Saturation P	resent?	Yes No	✓ Depth (in	ches):		Wetl	and Hydrolog	y Present? Yes _ No ✔	
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
According to the	e USACE's APT, the surv	ey area is experier	icing slightly drier tha	an normal clir	matic condit	ions. Indicato	ors of wetland hydi	rology were recorded with this condition in mind.	

Remarks:

Wetland hydrology was observed in the form of surface Surface Soil Cracks (B6). Surface Soil Cracks (B6) are a secondary wetland hydrology indicator and do not fulfill the requirements for wetland hydrology at this sample point.
# T3SP02



Project/Site: PVGTB - PVH	_ City/County: _E	agle Pass/Maverick County	Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: T3SP03
Investigator(s): AP, NA	_ Section, Towr	ship, Range: <u>N/A</u>	
Landform (hillslope, terrace, etc.): Flat	Local relief (c	oncave, convex, none): None	Slope (%): <u>1</u>
Subregion (LRR): 183B Lat: 2	8.750044	Long: -100.503782	Datum: NAD83_2011
Soil Map Unit Name: LgA - Lagloria very fine sandy loam, 0	to 1 percent s	lopes NWI classific	ation:
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes	No 🖌 (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology significant	ly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology naturally p	problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showin	ng sampling	point locations, transects	, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	Is the Sampled Area	Vas	No 🗸
Wetland Hydrology Present?	Yes	No 🖌		163	
Remarks:					

This sample point was recorded to represent an agricultural field located immediately adjacent to a scrubshrub area.

The Obstation (Distation 30 ft r	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft f</u> )	% Cover	<u>Species</u> ?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC (A) $(A)$
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>2</u> (B)
15 6 -		= Total Co	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 It r )				That Are OBL, FACW, or FAC: 0.00 (A/B)
1				Brouslance Index worksheet:
2				
3				Total % Cover or: Multiply by.
4				$\begin{array}{c c} OBL \text{ species} & \underline{O} & x \text{ 1} = \underline{O} \\ \hline \end{array}$
5				FACW species $0$ $x 2 = 0$
		= Total Co	ver	FAC species $0$ $x 3 = 0$
Herb Stratum (Plot size: 5 ft r )				FACU species 20 x 4 = 80
1. Sorghum bicolor	20	✓	FACU	UPL species <u>10</u> x 5 = <u>50</u>
2. Solanum elaeagnifolium	10	$\checkmark$	UPL	Column Totals: <u>30</u> (A) <u>130</u> (B)
3				4.22
4.				Prevalence Index = B/A = 4.33
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
0				3 - Prevalence Index is ≤3.0 <sup>1</sup>
o				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Weady Vina Stratum (Plot size: 30 ft r )	30	= Total Cov	ver	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
l				
2				Hydrophytic
% Bare Ground in Herb Stratum		= Total Cov	ver	Present? Yes No 🗸
Remarks:				
incinaints.				
Hydrophytic vegetation was not obs	served a	at this s	sample	point.

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Depth	Matrix		Redo	x Features	<b>5</b>	. ?	<b>-</b> <i>i</i>	<b>-</b> ·	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc <sup>2</sup>		Remarks	
0 - 10	2.5Y 5/3	100					Clay		
-		·							
-									
-		·		·					
		·		·					
		·							
-		·			. <u> </u>				
-		·					. <u> </u>		
-									
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	letion, RM=Re	duced Matrix, CS	S=Covered	or Coate	d Sand G	rains. <sup>2</sup> Locat	tion: PL=Pore Lining, M=Mat	trix.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise note	ed.)		Indicators for	or Problematic Hydric Soils	<sup>3</sup> :
Histosol	(A1)		Sandy (	Gleyed Mat	trix (S4)		1 cm Mu	ck (A9) ( <b>LRR I, J</b> )	
Histic Ep	pipedon (A2)		Sandy F	Redox (S5)	)		Coast Pr	airie Redox (A16) (LRR F, G	, H)
Black Hi	stic (A3)		Stripped	d Matrix (S	6)		Dark Sur	face (S7) (LRR G)	
Hydroge	en Sulfide (A4)		Loamy	Mucky Min	eral (F1)		High Plai	ins Depressions (F16)	
Stratified	Layers (A5) (LRR F	-)	Loamy	Gleyed Ma	trix (F2)		(LRR	H outside of MLRA 72 & 73	<b>B</b> )
1 cm Mu	ick (A9) (LRR F, G, I	H)	Deplete	d Matrix (F	-3) 		Reduced	l Vertic (F18)	
Depleted	a Below Dark Surfac	e (A11)	Redox I	Jark Surfa	Ce (F6) face (E7)		Red Pare	ent Material (TF2)	
Sandy M	Ark Surface (A12) Aucky Mineral (S1)		Depiete	u Dark Sui Jenressior	(F8)		Other (E	volain in Remarks)	
2.5 cm M	Aucky Peat or Peat (	S2) (L <b>RR G. H</b>	) High Pla	ains Depre	ssions (F	16)	<sup>3</sup> Indicators of	hydrophytic vegetation and	
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	) <u> </u>	RA 72 & 7	3 of LRR	H)	wetland h	hydrology must be present.	
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			,	unless di	sturbed or problematic.	
Restrictive I	Layer (if present):								
Type: CI	ау		_						
Depth (in	ches): <u>10</u>		_				Hydric Soil P	resent? Yes <u>No</u> No	<u>√</u>
Remarks:									
Hydric so	il components v	vere not ob	served at th	is samp	le poin	t. A har	d laver of cla	v was encountered at	t 10
inches be	low the soil sur	face.					,	,	
ITUROLO	GT								
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of o	ne required; ch	neck all that appl	y)			<u>Secondary</u>	Indicators (minimum of two	required
Surface	Water (A1)		Salt Crust	(B11)			✓ Surface	e Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic In	vertebrates	s (B13)		Sparse	ely Vegetated Concave Surfa	ace (B8)
Saturatio	on (A3)		Hydrogen	Sulfide Od	lor (C1)		Draina	age Patterns (B10)	
Water M	larks (B1)		Dry-Seaso	on Water T	able (C2)		Oxidiz	ed Rhizospheres on Living R	Roots (C3
Sedimer	nt Deposits (B2)		Oxidized F	Rhizospher	es on Liv	ing Roots	(C3) (who	ere tilled)	
Drift Dep	posits (B3)		(where	not tilled)			Crayfi	sh Burrows (C8)	
Algal Ma	at or Crust (B4)		Presence	of Reduce	d Iron (C4	.)	Satura	ation Visible on Aerial Imager	y (C9)
Iron Dep	oosits (B5)		Thin Muck	Surface (	C7)		Geom	orphic Position (D2)	
Inundati	on Vis ble on Aerial I	magery (B7)	Other (Exp	plain in Rei	marks)		FAC-N	leutral Test (D5)	
Water-S	tained Leaves (B9)						Frost-I	Heave Hummocks (D7) (LRI	<b>R F</b> )
Field Obser	vations:								
Surface Wat	er Present? Y	es No _	Depth (in	ches):					
Water Table	Present? Y	es No _	✓ Depth (in	ches):		_			,
Saturation P	resent? Y	es No _	✓ Depth (in	ches):		Wet	and Hydrology I	Present? Yes No	<u>√</u>
(Includes cap	oillary tringe) corded Data (stream		ring well aerial	nhotos pre	vious ins	nections)	if available:		
According to the	USACE's APT. the surve	y area is experiend	cing slightly drier that	in normal clin	natic conditi	ons. Indicat	ors of wetland hydrol	ogy were recorded with this condition	on in mind
Remarke	,		5 5 ., un						
							-		
Wetland hy	/drology was obs	erved in the	torm of surfa	ce Surfa	ce Soil (	Cracks (	B6). Surface S	oil Cracks (B6) are a sec	condar
wotland by	drology indicato	r and do not	fulfill the rear	iromont	e for wo	tland hv	drology at this	sample point	

#### T3SP03



Project/Site: PVGTB - PVH	_ City/County:	Eagle Pass/Maverick County	Sampling Date:	2024-05-22			
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point:	T3SP04			
Investigator(s): AP, NA	_ Section, Tow	nship, Range: <u>N/A</u>					
Landform (hillslope, terrace, etc.): Flat	Local relief (	concave, convex, none): <u>None</u>	Slo	pe (%): <u>15</u>			
Subregion (LRR): 183B Lat: 2	8.749544	Long: -100.503399	Datu	Im: NAD83_2011			
Soil Map Unit Name: ReA - Reynosa silty clay loam, 0 to 1 pe	ercent slopes	NWI classific	cation:				
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes	No (If no, explain in R	emarks.)				
Are Vegetation, Soil, or Hydrology significant	ly disturbed?	Are "Normal Circumstances" p	oresent? Yes	/ No			
Are Vegetation, Soil, or Hydrology naturally p	oroblematic?	(If needed, explain any answe	ers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes No	- Is the	Sampled Area					

Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	Is the Sampled Area within a Wetland?	Yes	No <u> </u>
Remarks:				

This sample point was recorded to represent a scrub-shrub upland area. It appears that this area has been used as an agricultural field in the past. However, lack of recent production has allowed natural scrub-shrub habitat to develop.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 It I	<u>% Cover</u>	<u>Species?</u>	Status	Number of Dominant Species
1. Prosopis glandulosa	15	✓	FACU	That Are OBL, FACW, or FAC
2				$(excluding FAC-): \qquad \underline{\circ} \qquad (A)$
3				Total Number of Dominant
4				Species Across All Strata: <u>4</u> (B)
	15	= Total Cov	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: 0.00 (A/B)
<sub>1.</sub> Prosopis glandulosa	15		FACU	
2. Vachellia farnesiana	10	$\checkmark$	FACU	Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
4.				OBL species $0$ x 1 = $0$
5				FACW species $0$ x 2 = $0$
	25	- Total Cov		FAC species $0   x 3 = 0$
Herb Stratum (Plot size: 5 ft r		- 10181 001		FACU species 40 x 4 = 160
1 Cenchrus ciliaris	50	$\checkmark$	UPL	UPL species 50 $x_5 = 250$
2				Column Totals: 90 (A) 410 (B)
2				
3				Prevalence Index = $B/A = 4.55$
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				2 - Dominance Test is >50%
7				$3 - $ Prevalence Index is $< 3 0^{1}$
8				Morphological Adoptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	50	= Total Cov	ver	
Woody Vine Stratum (Plot size: 30 ft r)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
		= Total Cov	ver	Vegetation
% Bare Ground in Herb Stratum				Present? Yes <u>No </u> ✓
Remarks:				

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Profile Desc	ription: (Describe	e to the depth n	eeded to docur	nent the i	ndicator o	r confirn	n the absence of	f indicators.)	
Depth	Matrix		Redo	x Features	8				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type'	Loc	Texture	Remarks	
0 - 10	2.5Y 6/3	100					Clay		
-									
-									
				·					
				·	·		<u> </u>		
							·		
-									
-									
	oncentration D=De	nletion RM=Re	duced Matrix CS	=Covered	l or Coater	Sand G	rains <sup>2</sup> Locat	ion: PI =Pore Lining	M=Matrix
Hvdric Soil	Indicators: (Appli	cable to all LR	Rs. unless other	wise note	ed.)		Indicators fo	or Problematic Hydrid	: Soils <sup>3</sup> :
Histosol	(A1)		Sandy (	Bleved Ma	trix (S4)		1 cm Mu	ck (A9) (LRR I. J)	
Histic Er	oipedon (A2)		Sandy F	Redox (S5)	)		Coast Pr	airie Redox (A16) ( <b>LR</b>	R F. G. H)
Black Hi	istic (A3)		Stripped	Matrix (S	, 6)		Dark Sur	face (S7) (LRR G)	, _,,
Hydroge	en Sulfide (A4)		Loamy I	Mucky Min	eral (F1)		High Plai	ins Depressions (F16)	
Stratified	d Layers (A5) (LRR	F)	Loamy (	Gleyed Ma	atrix (F2)		(LRR	H outside of MLRA 7	<b>2 &amp; 73</b> )
1 cm Mu	uck (A9) (LRR F, G,	H)	Deplete	d Matrix (F	-3)		Reduced	l Vertic (F18)	
Depleted	d Below Dark Surfa	ce (A11)	Redox [	Dark Surfa	ce (F6)		Red Pare	ent Material (TF2)	
Thick Da	ark Surface (A12)		Deplete	d Dark Su	rface (F7)		Very Sha	allow Dark Surface (TF	12)
	lucky Mineral (S1)		Redox L		15 (F8)	6)	<u>Uther (E</u>	xplain in Remarks)	n and
2.5 cm M	incry Feat of Feat	(32) (LRR G, H 3) (I RR F)	( <b>MI</b>	RA 72 & 7		0) H)	wetland h	avdrology must be pre-	n anu sent
		55) (ERRT)			J OI LINN	••)	unless di	sturbed or problemation	2
Restrictive I	Laver (if present):								
Type: CI	ay i j								
Depth (inc	<sub>ches)</sub> . 10		-				Hydric Soil P	resent? Yes	No 🗸
Remarks:			_						
	il a a man a manta	wara nat ak	o any call at the		la naint	Abor			at 10 in aboa
		were not or	serveu at th	is samp	ne point	. A fial	u ciay layer v		at to inclues
HYDROLO	GY								
Wetland Hy	drology Indicators	•							
Primany India	ators (minimum of	• ono roquirod: ch	ock all that apply	.0			Socondan	Indicators (minimum	of two required)
<u>Frinary mulo</u>		<u>one required, cr</u>	Solt Crust	<u>(</u> 011)			Surfac		<u>or two required)</u>
	vvaler (AT)			(DII) vertebretev	o (D12)		Sunac	e Soli Clacks (BO)	Curface (DQ)
	(A2)		Aqualic III		S(DI3)		Sparso	ely Vegetated Colicav	e Sullace (Do)
Saturation	Jir (AJ) Jarke (B1)			n Wator T	$\operatorname{ion}(C1)$			age Fallenis (D10)	iving Poots (C3)
Valer W	at Doposite (B2)			hizosphor	able (CZ)		(C3) (who	ed Killed)	
Drift Der	(B2)			ot tilled)		ig itoots	(CC) (With	sh Burrows (C8)	
	at or Crust (B4)		Presence	of Reduce	d Iron (C4)	N N	Orayna Satura	ation Visible on Aerial	magery (C9)
Iron Der	(B5)		Thin Muck	Surface ((	0 11011 (04) C7)	,	Geom	ornhic Position (D2)	magery (00)
	on Vis ble on Aerial	Imagery (B7)	Other (Exr	lain in Re	marks)		EAC-N	Jeutral Test (D5)	
Water-S	tained Leaves (B9)				marke)		Erost-l	Heave Hummocks (D7	(LRR F)
Field Obser	vations:								/()
Surface Wat	er Present?	Ves No	✓ Depth (in	hes).					
Water Table	Procent?	Yes <u>No</u> No	✓ Depth (ind			-			
	resent?	res No	Depth (ind			- Woti	and Hydrology	Procent? Vec	
(includes car	pillary fringe)		■ Depth (Ind	mes).			and hydrology i		
Describe Re	corded Data (stream	n gauge, monito	ring well, aerial p	photos, pre	evious insp	ections),	if available:		
According to the	e USACE's APT, the surv	ey area is experien	cing slightly drier tha	n normal clin	natic conditio	ons. Indicate	ors of wetland hydrol	ogy were recorded with this	condition in mind.
Remarks:									
Wetland	l hydrology v	was not ol	oserved at	this sa	ample	point.			

# T3SP04



Project/Site: PVGTB - PVH	City/County: E	agle Pass/Maverick County	Sampling Date: 2024-05-22
Applicant/Owner: Purto Verde Holdings		State: Texas	Sampling Point: T4SP01
Investigator(s): AP, NA	Section, Town	ship, Range: <u>N/A</u>	
Landform (hillslope, terrace, etc.): Flat	Local relief (c	oncave, convex, none): None	Slope (%): <u>1</u>
Subregion (LRR): 183B	_at: 28.753243	Long: -100.501491	Datum: NAD83_2011
Soil Map Unit Name: ReA - Reynosa silty clay loam, 0 to	o 1 percent slopes	NWI classific	cation:
Are climatic / hydrologic conditions on the site typical for this tir	ne of year? Yes	No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrologysign	ificantly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No
Are Vegetation, Soil, or Hydrology natu	rally problematic?	(If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map sh	owing sampling	point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No	×		

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>✓</u> No <u>✓</u> No <u>✓</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

This sample point was recorded to represent an agricultural field located along the northern boundary of the survey area.

20.4 -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>1</u> (B)
		= Total Cov	rer	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: 0.00 (A/B)
1				
2				Prevalence Index worksheet:
3				Total % Cover of:Multiply by:
4.				OBL species $\frac{0}{x} \times 1 = \frac{0}{x}$
5				FACW species $0$ x 2 = $0$
		= Total Cov	er	FAC species $0   x 3 = 0$
Herb Stratum (Plot size: 5 ft r)				FACU species 25 x 4 = 100
1. Sorghum bicolor	25	$\checkmark$	FACU	UPL species $0 \times 5 = 0$
2.				Column Totals: 25 (A) 100 (B)
3.				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
0				3 - Prevalence Index is ≤3.0 <sup>1</sup>
0				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9				data in Remarks or on a separate sheet)
10	25			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30 ft r )	23	= Total Cov	rer	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
··				Hadaaa kada
۲		- Total Ori		Hydropnytic Vegetation
% Bare Ground in Herb Stratum			er	Present? Yes No 🗸
Remarks:				1
	•			
Hydrophytic vegetation was not dor	nınant a	at this s	ample	point.

S	Ο	I	L
•	•		_

Depth	Matrix	to the depth	Redo	x Feature	S	o, comin		indicators.
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 10	2.5Y 5/3	100		_	_	_	Silty Clay	
-							<u> </u>	
-				<u> </u>				
-								
<u> </u>								
-							<u> </u>	
-							·	
<sup>1</sup> Type: C=Ce	oncentration, D=Dep	pletion, RM=R	educed Matrix, CS	S=Covered	d or Coate	d Sand G	rains. <sup>2</sup> Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	able to all LR	Rs, unless othe	rwise not	ed.)		Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy (	Gleyed Ma	trix (S4)		1 cm Mu	uck (A9) ( <b>LRR I, J</b> )
— Histic Ep	pipedon (A2)		Sandy F	Redox (S5	)		Coast P	rairie Redox (A16) ( <b>LRR F, G, H</b> )
Black Hi	stic (A3)		Stripped	d Matrix (S	6)		Dark Su	rface (S7) (LRR G)
Hydroge	en Sulfide (A4)	_`	Loamy	Mucky Mir	neral (F1)		High Pla	ains Depressions (F16)
Stratified	Layers (A5) (LRR	F)	Loamy	Gleyed Ma	atrix (F2)		(LRR	H outside of MLRA 72 & 73)
1 cm Mu	ICK (A9) (LRR F, G, d Bolow Dork Surfac	$\mathbf{H}$ )	Deplete	d Matrix (I	-3)		Reduce	d Vertic (F18)
Depieted	ark Surface (A12)	e (ATT)		d Dark Suild	ice (F0) Irface (F7)		Very Sh	allow Dark Surface (TE12)
Sandy M	lucky Mineral (S1)		Redox [	Depressio	ns (F8)		Other (E	Explain in Remarks)
2.5 cm N	Aucky Peat or Peat	(S2) ( <b>LRR G, I</b>	H) High Pla	ains Depre	essions (F	16)	<sup>3</sup> Indicators o	f hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) (LRR F)	, <u> </u>	RA 72 & 7	73 of LRR	μ)	wetland	hydrology must be present,
							unless c	listurbed or problematic.
Restrictive I	Layer (if present):							
Type: CI	ау							
Depth (in	ches): <u>10</u>						Hydric Soil F	Present? Yes No
Remarks:								
Hvdric so	il components	were not o	bserved at th	nis samu	niog alc	t. A har	d laver of cla	av was encountered at 10
inches be	low the soil sur	face					,	
	GY							
Wetlend Liv	drele <i>nu</i> Indiastera							
wetland Hy	arology indicators:							
Primary India	cators (minimum of o	one required; o	check all that appl	y)			Secondar	y Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			<u></u> ✓ Surfa	ce Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic In	vertebrate	s (B13)		Spars	sely Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen	Sulfide O	dor (C1)		Drain	age Patterns (B10)
Water M	larks (B1)		Dry-Seaso	on Water T	able (C2)		Oxidi:	zed Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized F	Rhizosphe	res on Liv	ing Roots	(C3) (wh	ere tilled)
Drift Dep	posits (B3)		(where i	not tilled)			Crayf	ish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduce	ed Iron (C4	+)	Satur	ation Visible on Aerial Imagery (C9)
Iron Dep	oosits (B5)		Thin Muck	Surface (	C7)		Geon	norphic Position (D2)
Inundati	on Vis ble on Aerial	Imagery (B7)	Other (Exp	plain in Re	marks)		FAC-	Neutral Test (D5)
Water-S	tained Leaves (B9)						Frost-	Heave Hummocks (D7) (LRR F)
Field Obser	vations:		,					
Surface Wat	er Present?	/es No	✓ Depth (in	ches):				
Water Table	Present?	/es No	Depth (in	ches):		_		
Saturation P	resent?	/es No	Depth (in	ches):		Wet	land Hydrology	Present? Yes No _✓
(includes cap	oillary fringe)						if a valle bil	
Describe Re	corded Data (stream	n gauge, monit	oring well, aerial	pnotos, pr	evious ins	pections),	if available:	
According to the	e USACE'S APT, the surve	ey area is experiei	ncing slightly drier tha	in normal cli	matic condit	ions. Indicat	ors of wetland hydro	logy were recorded with this condition in mind.
Remarks:								
Wetland hy	/drology was ob	served in th	e form of surfa	ice Surfa	ice Soil (	Cracks (	B6). Surface S	Soil Cracks (B6) are a secondary
wetland hy	drology indicato	r and do no	t fulfill the requ	uirement	s for we	tland hy	drology at this	s sample point.

#### T4SP01



Project/Site: PVGTB - PVH	City/County: E	agle Pass/Maverick County	Sampling Date: 2024-05-22				
Applicant/Owner: Purto Verde Holdings	pplicant/Owner: Purto Verde Holdings State: Texas Sampling Point: Texas						
Investigator(s): <u>AP, NA</u>	Section, Town	Section, Township, Range: N/A					
Landform (hillslope, terrace, etc.): Flat	Local relief (co	Local relief (concave, convex, none): None Slope (%): 1					
Subregion (LRR): 183B Lat:	28.752121	Long: -100.500859	Datum: NAD83_2011				
Soil Map Unit Name: ReA - Reynosa silty clay loam, 0 to 1	percent slopes	NWI classific	ation:				
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes	No 🧹 (If no, explain in R	emarks.)				
Are Vegetation, Soil, or Hydrology significa	antly disturbed?	Are "Normal Circumstances" p	oresent? Yes 🖌 No				
Are Vegetation, Soil, or Hydrology naturall	y problematic?	(If needed, explain any answe	rs in Remarks.)				
SUMMARY OF FINDINGS – Attach site map show	/ing sampling	point locations, transects	, important features, etc.				
Hydrophytic Vegetation Present? Yes No _	Is the S	ampled Area					

Hydrophylic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes	No $\checkmark$ No $\checkmark$	Is the Sampled Area within a Wetland?	Yes	No
Remarks:					

This sample point was recorded to represent a scrub-shrub upland area. This area appears to have been used for agricultural purposes in the past. However, lack of recent production has allowed native scrub-shrub habitat to develop in the area.

# **VEGETATION – Use scientific names of plants.**

20.4 -	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30 It I	<u>% Cover</u>	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC	
2					1
3				Total Number of Dominant	
4				Species Across All Strata: <u>3</u> (B)	
		= Total Cov	/er	Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size: 15 ft r )				That Are OBL, FACW, or FAC: <u>33.33</u> (A/E	B)
1. Prosopis glandulosa	30	$\checkmark$	FACU		
2				Prevalence Index worksheet:	
3.				Total % Cover of: Multiply by:	
4				OBL species $5   x_1 = 5$	
5				FACW species $0   x 2 = 0$	
o	30	- Total Car		FAC species $0$ x 3 = $0$	
Herb Stratum (Plot size: 5 ft r )			/er	FACU species $35$ $x_4 = 140$	
1 Suaeda nigra	5	$\checkmark$	OBL	UPL species $0 \times 5 = 0$	
2 Vachellia farnesiana	5		FACU	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	2
2					·)
3			<u> </u>	Prevalence Index = B/A = 3.62	
4				Hydrophytic Vegetation Indicators:	
5				1 - Rapid Test for Hydrophytic Vegetation	
6				2 - Dominance Test is >50%	
7				3 - Prevalence Index is < 3.01	
8				0 * 1 revalence index is 200	na
9				data in Remarks or on a separate sheet)	ng
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
	10	= Total Cov	/er	· · · · · · · · · · · · · · · · ·	
Woody Vine Stratum (Plot size: 30 ft r )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
1				be present, unless disturbed or problematic.	
2				Hydrophytic	
		= Total Cov	/er	Vegetation	
% Bare Ground in Herb Stratum				Present? Yes No	
Remarks:					
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.	

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Profile Desc	cription: (Describe	to the depth n	eeded to docu	ment the i	ndicator	or confirr	n the absence o	of indicators.)
(inches)	Color (moist)	% (	Color (moist)	%	S Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 8	2.5Y 6/3	100					Clay	
_								
	-							
							<u> </u>	
-								
-								
-								
-								
-								
<sup>1</sup> Type: $C=C$	oncentration D=Der	letion RM=Rec	luced Matrix C	S=Covered	d or Coate	d Sand G	rains <sup>2</sup> Loca	ation: PI = Pore Lining M=Matrix
Hvdric Soil	Indicators: (Applic	able to all LRR	s. unless othe	rwise note	ed.)		Indicators f	for Problematic Hvdric Soils <sup>3</sup> :
Histosol	(A1)		Sandv	Gleved Ma	atrix (S4)		1 cm Mi	uck (A9) (LRR I, J)
Histic Ep	bipedon (A2)		Sandy	Redox (S5	)		Coast P	Prairie Redox (A16) ( <b>LRR F, G, H</b> )
Black Hi	istic (A3)		Strippe	d Matrix (S	56)		Dark Su	urface (S7) (LRR G)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mir	neral (F1)		High Pla	ains Depressions (F16)
Stratified	d Layers (A5) (LRR I	F)	Loamy	Gleyed Ma	atrix (F2)		(LRF	R H outside of MLRA 72 & 73)
1 cm Mu	ICK (A9) (LRR F, G, I d Bolow Dork Surface	H)	Deplete	ed Matrix (F	-3) >>> (E6)		Reduce	d Vertic (F18)
Thick Da	ark Surface (A12)	e (ATT)	Redux	ed Dark Sulla	rface (F7)		Verv Sh	nallow Dark Surface (TF12)
Sandy M	lucky Mineral (S1)		Redox	Depression	ns (F8)		Other (E	Explain in Remarks)
2.5 cm M	Mucky Peat or Peat (	S2) (LRR G, H)	) High Pl	ains Depre	essions (F	16)	<sup>3</sup> Indicators c	of hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	.RA 72 & 7	73 of LRR	H)	wetland	hydrology must be present,
							unless o	disturbed or problematic.
Restrictive	Layer (if present):							
Type: 01	ay 							
Depth (In	cnes): 0		-				Hydric Soll H	Present? Yes No
Remarks:								
Hydric so	il components v	were not ob	served at th	nis samp	ole poin	t. A har	d layer of cla	ay was encountered at 8
inches be	low the soil sur	face.						
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary India	cators (minimum of c	one required; ch	eck all that app	ly)			<u>Secondar</u>	y Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			🖌 Surfa	ace Soil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Ir	vertebrate	s (B13)		Spars	sely Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen	Sulfide Oc	dor (C1)		Drain	nage Patterns (B10)
Water M	larks (B1)		Dry-Seas	on Water T	able (C2)		Oxidi	zed Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized	Rhizosphe	res on Liv	ing Roots	(C3) (wh	nere tilled)
Drift Dep	posits (B3)		(where	not tilled)			Crayl	fish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduce	ed Iron (C4	4)	Satur	ration Visible on Aerial Imagery (C9)
Iron Dep	DOSITS (B5)	(DZ)		(Surface (	C7)		Geon	Norphic Position (D2)
Inundati	on VIS ble on Aerial	magery (B7)	Other (Ex	plain in Re	marks)		FAC-	
Eiold Obsor	vations:					1	FIOSI	
Surface Wat	or Prosont?	íos No	✓ Dopth (in	choc):				
Water Table		Co No	✓ Dopth (ir			-		
Soturation D	rocont?	Co No	· Deptii (Ir	ohoo):		- Met	and Hydrology	Brosopt2 Voc No
(includes car	pillary fringe)	es NO _	- Deptn (Ir	iches):		vvet	ianu nyurology	
Describe Re	corded Data (stream	gauge, monito	ring well, aerial	photos, pr	evious ins	pections),	if available:	
According to the	e USACE's APT, the surve	y area is experienc	ing slightly drier th	an normal clir	matic condit	ions. Indicat	ors of wetland hydro	blogy were recorded with this condition in mind.
Remarks:								
Wetland h	/drology was obs	served in the	form of surfa	ace Surfa	ice Soil (	Cracks (	B6). Surface S	Soil Cracks (B6) are a secondarv
wetland hy	drology indicato	r and do not	fulfill the req	uirement	s for we	tland hy	drology at thi	s sample point.

# T4SP02



Project/Site: PVGTB - PVH	City/C	City/County: Eagle Pass/Maverick County Sampling Date: 2024-05-22					
Applicant/Owner: Purto Verde Holdings			State: Texas	Sampling Point: T5SP01			
Investigator(s): AP, NA	Sectio	Section, Township, Range: N/A					
Landform (hillslope, terrace, etc.): Flat	Loca	relief (concave,	convex, none): None	Slope (%): 3			
Subregion (LRR): 183B	Lat: 28.7449	968	_ Long: -100.490914	Datum: NAD83_2011			
Soil Map Unit Name: CAB - Catarina clay, association	on, 0 to 5 perce	ent slopes	NWI classifi	cation:			
Are climatic / hydrologic conditions on the site typical for th	is time of year? Y	es No _	✓ (If no, explain in F	Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are	"Normal Circumstances"	present? Yes 🖌 No			
Are Vegetation, Soil, or Hydrology	naturally problema	atic? (If ne	eeded, explain any answe	ers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map	showing sam	pling point l	ocations, transects	s, important features, etc.			
Hydrophytic Vegetation Present? Yes N	No 🖌	Is the Sampleo	l Area				
Hydric Soil Present? Yes N	No 🖌	within a Wetla	nd? Yes	No 🗸			
Wetland Hydrology Present? Yes N	No <u> ⁄</u>						
Remarks:							

This sample point was recorded to represent a scrub-shrub upland area located south of Seco Creek.

20 # -	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft r )	<u>% Cover</u>	Species?	Status	Number of Dominant Species
1. Prosopis glandulosa	30	✓	FACU	That Are OBL, FACW, or FAC
2				(excluding FAC-).
3				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
15 4	30	= Total Cov	/er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15 Tt r )	10	/		That Are OBL, FACW, or FAC: 0.00 (A/B)
1. Acacia rigidula	10	✓	UPL	Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				
4				$\frac{OBL species}{O} = \frac{O}{O}$
5				FACW species $0$ $x^2 = 0$
	10	= Total Cov	/er	FAC species $5$ $x 3 = 15$
Herb Stratum (Plot size: 5 ft r)				FACU species $\frac{30}{30}$ x 4 = $\frac{120}{30}$
1. Cenchrus ciliaris	50	✓	UPL	UPL species $\frac{75}{x 5} = \frac{375}{x 5}$
2. Acacia rigidula	10		UPL	Column Totals: <u>110</u> (A) <u>510</u> (B)
3. Rumex salicifolius	5		FAC	5 1 1 5/4 4.63
4. Ratibida columnifera	5		UPL	Prevalence Index = B/A = 4.00
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				$\_$ 3 - Prevalence Index is $\leq 3.0^{1}$
9				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
20 ft r	70	= Total Cov	/er	
Woody Vine Stratum (Plot size: 30 ft r )				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Hydronbytic
		= Total Cov	/er	Vegetation
% Bare Ground in Herb Stratum				Present? Yes No 🗸
Remarks:				
Hydrophytic vegetation was not dor	ninant a	at this s	ample	point.

SO	L
----	---

Depth	Matrix		Redo	x Features	S		in the absence of	mulcators.)
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0 - 12 2	2.5Y 5/3	100					Silty Clay	
							· <u> </u>	
				. <u> </u>			·	
-								
-								
-								
				·			· ·	
17			durand Matrix Of				21	and DL Dans Lining M Mateix
Hydric Soil Ind	icators: (Application)	etion, RIVI=Re	duced Matrix, Ca	s=Covered	or Coate	d Sand G	Indicators for	on: PL=Pore Lining, M=Matrix.
Histosol (A	1)		Sandy (		triv $(S1)$		1 cm Muc	
Histic Enine	edon (A2)		Sandy 6	Redox (S5	)		Coast Pra	airie Redox (A16) ( <b>I RR F. G. H</b> )
Black Histic	c (A3)		Strippe	d Matrix (S	, 6)		Dark Surf	ace (S7) (LRR G)
Hvdrogen S	Sulfide (A4)		Loamv	Mucky Min	eral (F1)		High Plair	ns Depressions (F16)
Stratified La	ayers (A5) (LRR F	·)	Loamy	Gleyed Ma	atrix (F2)		(LRR	H outside of MLRA 72 & 73)
1 cm Muck	(A9) (LRR F, G, H	ł)	Deplete	d Matrix (F	-3)		Reduced	Vertic (F18)
Depleted B	elow Dark Surface	e (A11)	Redox I	Dark Surfa	ce (F6)		Red Pare	nt Material (TF2)
Thick Dark	Surface (A12)		Deplete	d Dark Su	rface (F7)		Very Sha	llow Dark Surface (TF12)
Sandy Muc	ky Mineral (S1)		Redox I	Depressior	ns (F8)		Other (Ex	plain in Remarks)
2.5 cm Muc	cky Peat or Peat (	52) (LRR G, H	I) High Pla	ains Depre	ssions (F	16)	°Indicators of	hydrophytic vegetation and
5 cm Muck	y Peat or Peat (S3	5) (LRR F)	(ML	RA 72 & 7	'3 of LRR	H)	wetland h	ydrology must be present,
Postrictivo I a	(or (if prosont))						uniess ais	sturbed or problematic.
	ver (ii present).							
Dopth (incho	No.): 12		_				Hydric Soil Pr	osont? Yos No V
Bomorko:			_				Tryanc Son Ph	
Hydric soil c	components v	vere not ol	oserved at th	iis samp	ble poin	t. A har	d layer of clay	/ was encountered at 12
inches below	w the soil surf	ace. Grav	el and river r	ock pres	sent wit	thin sol	l sample.	
HYDROLOG	Y							
Wetland Hydro	ology Indicators:							
Primary Indicate	ors (minimum of o	ne required; c	heck all that appl	y)			Secondary	Indicators (minimum of two required)
Surface Wa	ater (A1)		Salt Crust	(B11)			Surface	e Soil Cracks (B6)
High Water	Table (A2)		Aquatic In	vertebrate	s (B13)		Sparse	ly Vegetated Concave Surface (B8)
Saturation	(A3)		Hydrogen	Sulfide Oc	lor (C1)		Drainag	ge Patterns (B10)
Water Mark	ks (B1)		Dry-Seaso	on Water T	able (C2)		Oxidize	ed Rhizospheres on Living Roots (C3)
Sediment E	Deposits (B2)		Oxidized F	Rhizosphei	res on Livi	ng Roots	(C3) (whe	re tilled)
Drift Depos	sits (B3)		(where	not tilled)			Crayfis	h Burrows (C8)
Algal Mat o	or Crust (B4)		Presence	of Reduce	d Iron (C4	·)	Saturat	tion Visible on Aerial Imagery (C9)
Iron Depos	its (B5)		Thin Muck	Surface (	C7)		Geomo	orphic Position (D2)
Inundation	Vis ble on Aerial I	magery (B7)	Other (Exp	olain in Re	marks)		FAC-N	eutral Test (D5)
Water-Stair	ned Leaves (B9)						Frost-H	leave Hummocks (D7) (LRR F)
Field Observat	ions:							
Surface Water I	Present? Ye	es No	✓ Depth (in	ches):		_		
Water Table Pre	esent? Ye	es <u>N</u> o	✓ Depth (in	ches):		_		
Saturation Pres (includes capilla	ent? Yo ary fringe)	es No	✓ Depth (in	ches):		Wet	land Hydrology P	resent? Yes No _✓
Describe Recor	ded Data (stream	gauge, monito area is experien	oring well, aerial cing slightly drier that	photos, pre in normal clir	evious ins natic conditi	pections) ons. Indicat	, if available: ors of wetland hydrolo	gy were recorded with this condition in mind.
Remarks:	······		5 6 7 8 8 8					
Wetland h	wdrology w	as not o	bserved at	this s	ample	point	_	

# T5PSP01

