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	END OF A CURB ON THE SOUTH SIDE OF WILDHORSE TRAIL. ELEVATION = 640.40'	SHEET NUMBER
		7 OF 69
	SP	-2022-0426C SH

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APPENDIX II PHOTO GALLERY

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1. View northeast across the southern portion of the subject property



2. Mattress discarded at the southern portion of the subject property



3. View southeast along southwest property boundary



4. Southwest property boundary (Undeveloped land)



5. Southwest adjoining property (rural residential property and undeveloped land)



6. View of Wild Horse Ranch Trail along the southwestern property boundary

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9. View northeast of the central portion of the subject property



10. View northeast along Blue Bluff Road



11. Southeast adjoining property (undeveloped land)



12. View southeast along Blue Bluff Road



13. View west of subject property from locked gate along Blue Bluff Road



14. Northeast adjoining property (undeveloped land)

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15. Northwest adjoining property (undeveloped land)



CITY OF AUSTIN ENVIRONMENTAL RESOURCE INVENTORY FOR THE WILDHORSE HILLTOP TRACT

Travis County, Texas

March 2021

Submitted to:

Kimley-Horn and Associates, Inc. 10814 Jollyville Road Campus IV, Suite 200 Austin, TX 78759

> **Prepared by:** aci consulting 1001 Mopac Circle Austin, Texas 78746

aci Project No.: 35-21-018

aci consulting

a division of aci group, LLC Page 27 of 56 www.aci-consulting.net

Austin (512) 347.9000 • Denver (720) 440.5320

(City use only)

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Environmental Resource Inventory

For the City of Austin

Relating to the Land Development Code (LDC) Section 25-8, Title 30-5, ECM 1.3.0 & 1.10.0 Effective October 28, 2013

The ERI is required for projects that meet one or more of the criteria listed in (LDC) Section 25-8-121(A), Title 30-5-121(A).

- 1. SITE/PROJECT NAME: Wildhorse Hilltop
- 2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 848837, 848836, and 848840
- 3. ADDRESS/LOCATION OF PROJECT: 9900 US HIGHWAY 290 E MANOR, TX 78653
- 4. WATERSHED: Gilleland Creek

5. THIS SITE IS WITHIN THE (Check all that apply) Edwards Aquifer Recharge Zone* (See note below)......□YES ⊠No Edwards Aquifer Contributing Zone*.....□YES ⊠No Edwards Aquifer 1500 ft Verification Zone*□YES ⊠No Barton Spring Zone*.....□YES ⊠No *(as defined by the City of Austin – LDC 25-8-2)

Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.

- - (1) The floodplain modifications proposed are necessary to protect the public health and safety;
 - □ (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the Environmental Criteria Manual, or
 - (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under Section 25-8-261 or 25-8-262 of the LDC.**
 - (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

** If yes, then a functional assessment must be completed and attached to the ERI (see Section 1.7 and Appendix X in the Environmental Criteria Manual for forms and guidance) unless conditions 1 or 3 above apply.

7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE?□YES*** ⊠NO

***If yes, then riparian restoration is required by Section 25-8-261(E) of the LDC and a functional assessment must be completed and attached to the ERI (see Section 1.5 and Appendix X in the Environmental Criteria Manual for forms and guidance).

There is a total of 2 (#'s) Critical Environmental Feature(s)(CEFs) on or within150 feet of the project site. If CEF(s) are present, attach a detailed DESCRIPTION of the CEF(s), color PHOTOGRAPHS, the CEF WORKSHEET and provide DESCRIPTIONS of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site (*Please provide the number of CEFs*):

____ (#'s) Spring(s)/Seep(s) ____ (#'s) Point Recharge Feature(s) ____ (#'s) Bluff(s)

____ (#'s) Canyon Rimrock(s) ____ (#'s) Wetland(s)

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is <u>not provided</u>, you must provide a written request for an administrative variance from Section 25-8-281(C)(1) and provide written findings of fact to support your request. <u>Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.</u>

9. The following site maps are attached at the end of this report (Check all that apply and provide):

All ERI reports must include:

- Site Specific Geologic Map with 2-ft Topography
- Historic Aerial Photo of the Site
- ⊠ Site Soil Map
- ☑ Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography

Only if present on site (Maps can be combined):

- □ Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone (Only if site is over or within 1500 feet the recharge zone)
- □ Edwards Aquifer Contributing Zone
- □ Water Quality Transition Zone (WQTZ)
- □ Critical Water Quality Zone (CWQZ)
- □ City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage
- 10. **HYDROGEOLOGIC REPORT** Provide a description of site soils, topography, and site specific geology below (*Attach additional sheets if needed*):

Surface Soils on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness							
Soil Series Unit Name & Subgroup**	Thickness (feet)						
See Section 10-1							

*Soil Hydrologic Groups Definitions *(Abbreviated)*

- A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
- B. Soils having a <u>moderate</u> <u>infiltration</u> rate when thoroughly wetted.
- C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.
- D. Soils having a <u>very slow</u> <u>infiltration</u> rate when thoroughly wetted.

**Subgroup Classification – See <u>Classification of Soil Series</u> Table in County Soil Survey.

Description of Site Topography and Drainage (Attach additional sheets if needed):

According to the Austin West U.S. Geologic Survey (USGS) 7.5-Minute Topographic Quadrangle and the City of Austin 2012 two-foot contours, the elevation within the subject area ranges from 508 feet above mean sea level (MSL) to 640feet above MSL. The subject area slopes from the southern portion toward the southern portion. (USGS 1987).

(COA) City of Austin. 2012. Two-foot Topographic Lines. City of Austin: Austin, TX.

(USGS) U.S. Geologic Survey. 1988. Manor Texas Quadrangle. USGS - Department of the Interior: Denver, CO.

List surface geologic units below:

Geologic Units Exposed at Surface							
Group	Formation	Member					
N/A	Alluvium (Qal) N/A						
Taylor Group	Navarro and Taylor Group undivided N/A						

Brief description of site geology (Attach additional sheets if needed):

The subject area is mapped as Navarro and Taylor Groups undivided (Knt) and Alluvium (Qal)

Knt - "in areas where Pecan Gap Chalk is not present because of gradation of marl similar to that of the Marlbrook and Ozan Formations"

Qal - "Floodplain deposits, including indistinct low terrace deposite; clay, sand, and gravel; silt and clay, calcareous to surface, dark gray to dark brown; sand largely quartz; gravel, siliceous, mostly chert, quartzite, limestone, and petrified wood, along Colorado River much igneous and metamorphic rock, probably mostly reworked from terrace deposits; fluviatile morphology well preserved with point bars, oxbows, and abandoned channel segments"

(USGS) U.S. Geologic Survey. 2021. Texas Geology Web Map. Last accessed: March 19, 2021. https:// txpub.usgs.

Wells – Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

There are $\frac{0}{4}$ (#) wells present on the project site and the locations are shown and labeled

- (#'s)The wells are not in use and have been properly abandoned.
- ____ (#'s)The wells are not in use and will be properly abandoned.
- (#'s)The wells are in use and comply with 16 TAC Chapter 76.

There are $\frac{0}{1}$ (#'s) wells that are off-site and within 150 feet of this site.

11. **THE VEGETATION REPORT** – Provide the information requested below:

Brief description of site plant communities (Attach additional sheets if needed):

The vegetation is mixed deciduous and Ashe juniper woodland interspersed with cleared areas that maintained mature trees, but lacks an understory. The vegetation identified consisted of, but was not limited to, Ashe juniper (Juniperus ashei), Carolina ponysfoot (Dichondra carolinensis), redseed plantain (Plantago rhodosperma), common greenbrier (Smilax rotundifolia), sugarberry (Celtis laevigata), cedar elm (Ulmus crassifolia), turkey tangle fogfruit (Phyla nodiflora), bitter dock (Rumex obtusifolius), carolina crane bill (Geranium carolinianum), poison hemlock (Conium maculatum), balloon vine (Cardiospermum halicacabum), honey mesquite (Prosopis glandulosa), white horehound (Marrubium vulgare), Roosevelt weed (Baccharis neglecta), southern dewberry (Rubus trivialis), common spike rush, (Eleocharis palustris), broadleaf cattail (Typha latifolia), cursed crowfoot (Ranunculus sceleratus), and black willow (Salix nigra).

Woodland species				
Common Name	Scientific Name			
Ashe Juniper	Juniperus ashei			
Cedar Elm	Ulmus crassifolia			
Honey Mesquite	Prosopis glandulosa			
Sugar Hackberry	Celtis laevigata			

Grassland/prairie/savanna species					
Common Name	Scientific Name				
Little Bluestem	Schizachyrium scoparium				
Southern Dewberry	Rubus trivialis				
Roosevelt Weed	Baccharis neglecta				

There is hydrophytic vegetation on siteXYES NO (*Check one*). If yes, list the dominant species in table below (*next page*):

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Hydrophytic plant species							
Common Name	Scientific Name	Wetland Indicator Status					
Bushy Bluestem	Andropogon glomeratus F						
Common Spike Rush	Eleocharis palustris	OBL					
Broadleaf Cattail	Typha latifolia	OBL					
Cursed Crowfoot	Ranunculus sceleratus	OBL					
Black Willow	Salix nigra	FACW					

A tree survey of all trees with a diameter of at least eight inches measured four and onehalf feet above natural grade level has been completed on the site. \boxtimes YES \square NO *(Check one).*

12. WASTEWATER REPORT – Provide the information requested below.

Wastewater for the site will be treated by (Check of that Apply):

- \Box On-site system(s)
- City of Austin Centralized sewage collection system
- Other Centralized collection system

Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with Chapter 15-12 of Austin City Code and wells must be registered with the City of Austin

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications. \blacksquare YES \square NO *(Check one).*

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan. \Box YES \Box NO \boxtimes Not Applicable *(Check one).*

Wastewater lines are proposed within the Critical Water Quality Zone? \Box YES \boxtimes NO *(Check one)*. If yes, then provide justification below:

Is the project site is over the Edwards Aquifer? \boxtimes YES \square NO *(Check one).*

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.

Date(s) ERI Field Assessment was performed: March 18, 2021

Date(s)

My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

Stephen Meyer	(512) 852-3860
Print Name	Telephone
O 24 May	smeyer@aci-group.net
Signature	Email Address
aci consulting	March 30, 2021
Name of Company	Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).

P.G. Seal

Print Form



LIST OF ATTACHMENTS FOR THE ENVIRONMENTAL RESOURCE INVENTORY FORM

Question 8:

Q8-1: Critical Environmental Features Q8-2. CEF Worksheet

Question 9:

Q9-1: Site Specific Geologic Map with 2-ft Contours

Q9-2: 1996 Historic Aerial

Q9-3: Soils

Q9-4: CEFs with Wells and 2-ft Contours

Q9-5: Edwards Aquifer Contributing Zone

Question 10:

Q10-1: Surface Soils Q10-2: Surface Geology



QUESTION 8 ATTACHMENTS



<u>Q8-1: Critical Environmental Features</u>

Section 25-8-1 of the City of Austin (COA) LDC defines CEFs as "features that are of critical importance to the protection of environmental resources, and include bluffs, canyon rimrocks, caves, faults and fractures, seeps, sinkholes, springs, and wetlands."

Aerial photographs and topographic maps were utilized to orient surveyors in the field. If potential CEFs were identified in the field, they were carefully examined and recorded, and each potential feature was described, photographed and its location recorded using a handheld Garmin GPS unit.

According to Section 30-5-1 of the COA LDC, wetlands are defined as "a transitional land between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water and conforms to the Army Corps of Engineers' definition." The U.S. Army Corps of Engineers defines wetlands as areas having hydrophytic vegetation, wetland hydrology, and hydric soils. Additionally, according to the COA Environmental Criteria Manual, wetlands should be identified based on criteria outlined in Part IV Section D. Routine Determinations of the Corps of Engineers 1987 Wetlands Delineation Manual. This section identifies steps to identify whether or not an area is a wetland, but assumes an area has hydric soils if it has wetland hydrology and hydrophytic vegetation with an abrupt boundary between the hydrophytic vegetation and the upland area. Additionally, to assume that hydric soils are present at the site, the dominant hydrophytic vegetation must not have a dominant Facultative (FAC) species, at least one community type must be dominated by an Obligate (OBL) species, the boundary between wetlands and non-wetlands is distinct, and the area is not known or suspected of having significantly altered hydrology (footer Page 54).

Field reconnaissance and a wetland delineation was conducted within the subject area on March 18, 2021, according to Part IV Section D Subsection 2 – Onsite Inspection Necessary of the 1987 Corps of Engineers Wetlands Delineation Manual.

However, COA Watershed Protection Department Staff generally base their wetland determinations on Section 1.10.3 of the ECM, which states (emphasis added):

The identification of wetlands should be completed by someone familiar with the Army Corps of Engineers three-parameter technical criteria as outlined in the Corps of



Engineers 1987 Wetlands Delineation Manual (Section D. Routine Determinations). The three parameters for wetland determination include prevalence of hydrophytic vegetation, hydric soil formation, and the presence of adequate hydrology. The recommended routine method assumes adequate hydrology and hydric soils if the area under examination is dominated (over 50% vegetative cover) by Facultative-wet and/or Obligate plant species (as listed in the National List of Plant Species That Occur in Wetlands, South Plains, Region 6, U.S. Department of the Interior, Washington D.C.) and an abrupt boundary is evident between these Facultative-wet and/or Obligate plant species, the hydric soil and hydrology parameters cannot be assumed and must be examined to determine if an area is a wetland.

If an area is classified as a wetland CEF, the standard setback for a wetland meeting the City of Austin CEF definition is 150 feet. This setback may be administratively modified so that the same square footage as the standard setback is applied while maintaining a minimum buffer width of 50 feet from the centerline of the CEF. The standard buffer may be administratively modified or reduced on a case-by-case-basis if 1:1 mitigation in the form of in-kind and on-site wetland enhancement or replacement is provided.

The current hydrologic condition compared to a typical year can be determined using the Antecedent Precipitation Tool (APT), a desktop tool designed by the U.S. Army Corps of Engineers (USACE) to simplify rainfall analysis specifically for WOUS delineation. The tool uses a scoring system and weighted calculation to determine a final precipitation score. An index score of 9 or lower indicates conditions are drier than normal; an index score of 10 to 14 indicates conditions are normal; and a score of 15 or higher indicates conditions are wetter than normal. A typical year is defined by the Environmental Protection Agency (EPA) as "typical hydrologic flows or surface water connections that occur under normal conditions" and is based on a rolling thirty-year period (EPA).

The APT was utilized for the date of **aci consulting's** original site visit on March 18, 2021, to assess the local current conditions. The subject area scored a 10, which indicated normal conditions.

Field reconnaissance was conducted on March 18, 2021, and two wetland CEF'S, CEF-1 and CEF-2 were identified within the subject area.



CEF-1

CEF-1 is an emergent riverine wetland located in the western portion of the subject area around a pond. CEF-1 was saturated at the time of the field visit. CEF-1 had wetland hydrology, hydric soils, and is dominated by hydrophytic vegetation such as common spike rush, bushy bluestem, and broadleaf cattails. The boundary between CEF-1 and the adjacent non-wetland was identified based on changes in hydrology, dominant plant composition, and soils. No FEMA Flood Hazard Zones extend onto the subject area at CEF-1. The total area of CEF-1 is approximately 30,582 square feet (0.702 acre) within the subject area (Photo 1).





CEF-2

CEF-2 is a wetland fringe located in the central portion of the subject area. CEF-2 was saturated at the time of the field visit. CEF-2 had wetland hydrology, hydric soils, and is dominated by hydrophytic vegetation such as common spike rush and broadleaf cattails. The boundary between CEF-2 and the adjacent non-wetland was identified based on changes in hydrology, dominant plant composition, and soils. No FEMA Flood Hazard Zones extend onto the subject area at CEF-2. The total area of CEF-2 is approximately 3,793 square feet (0.087 acre) within the subject area (Photo 2).





Non-CEF A

Non-CEF A is a stock pond located in the southeastern portion of the subject area. Non-CEF A was not inundated or saturated at the time of the field visit. No FEMA Flood Hazard Zones extend onto the subject area at Non-CEF A. Non-CEF A lacks emergent vegetation and hydric soils and is therefore a non-wetland. The total area of Non-CEF A is approximately 3,489 square feet, or approximately 0.08 acre within the subject area (Photo 3).





Non-CEF B

Non-CEF B is a stock pond located in the northern portion of the subject area. Non-CEF B was inundated at the time of the field visit. No FEMA Flood Hazard Zones extend onto the subject area at Non-CEF B. Non-CEF B lacks emergent vegetation and hydric soils and is therefore a non-wetland. The total area of Non-CEF B is approximately 8,603 square feet, or approximately 0.19 acre within the subject area (Photo 4).





Non-CEF C

Non-CEF C is an ephemeral stream that flows west to east across the northern portion of the subject area. NJD-2 has a bed, bank, and OHWM for approximately 443 feet and is approximately 3 feet wide, for a total area of approximately 2,553 square feet (0.05 acre) in the subject area. Water was not present within Non-CEF C at the time of field investigations. The 1% Annual Chance and 0.2% Annual Chance Flood Hazard Zones extend onto the subject area at Non-CEF C. Non-CEF C lacks emergent vegetation, wetland hydrology, and hydric soils and is therefore a non-wetland. Vegetation observed along Non-CEF C includes, but is not limited to, broomweed, lemon beebalm, and (Photo 5).



City of Austin Environmental Resource Inventory - Critical Environmental Feature Worksheet

1	Project Name:	Wildhorse Hilltop Tract
2	Project Address:	9900 US HIGHWAY 290 E MANOR , TX 78653
3	Site Visit Date:	3/18/2021
4	Environmental Resource Inventory Date:	3/22/2021

5	Primary Contact Name:	Stephen Meyer
6	Phone Number:	(512) 347-3860
7	Prepared By:	Stephen Meyer
8	Email Address:	<u>smeyer@aci-group.net</u>

	FEATURE TYPE		FEATURE LONGITU	DE	FEATURE LATITUD	E	WETL	AND	RIMRO	CK/BLUFF	RE	CHA	RGE	FEATURE	Springs Est.
9	{Wetland,Rimrock, Bluffs,Recharge	reatore iD	(WGS 1984 in Mete	rs)	(WGS 1984 in Meter	eters) DIMENSIONS (ft) DIMENSIONS (ft) DIMEN		DIMENSIONS (ft)		MENS	IONS	Discharge			
	Feature,Spring}	(08 3 1)	coordinate	notation	coordinate	notation	Х	Y	Length	Avg Height	Х	Y	Ζ	Trend	cfs
	Wetland	CEF-1	-97.577626	DD	30.336217	DD	174.87	174.87							
	Wetland	CEF-2	-97.830745	DD	30.337568	DD	61.58	61.58							



Please state the method of coordinate data collection and the approximate precision and accuracy of the points and the unit of measurement.

Method		<u>Accuracy</u>	
GPS	Х	sub-meter	
Surveyed		meter	
Other		>1 meter	Х
	Profession	al Geologists a	pply seal below



Result

Wet Season

Figure and tables made by the Antecedent Precipitation Tool Version 1.0 Written by Jason Deters

U.S. Army Corps of Engineers

WebWIMP H₂O Balance

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days (Normal)	Days (Antecedent)
TAYLOR 1NW	30.5844, -97.4156	570.866	19.677	21.586	9.279	7335	90
AUSTIN WTP	30.2806, -97.6536	500.0	5.942	49.28	2.967	299	0
WELLS BRANCH 4.2 S	30.3852, -97.6788	691.929	6.916	142.649	4.099	1	0
ELGIN 1 N	30.3642, -97.37	594.16	12.53	44.88	6.201	3717	0
ROUND ROCK 3 NE	30.5414, -97.635	721.129	14.583	171.849	9.068	1	0

Мау	Jun	Jul
2021	2021	2021

ondition Value	Month Weight	Product
1	3	3
2	2	4
3	1	3
		Normal Conditions - 10

11 SP-2022-0426C.SH - Blueridge Multifamily at Wildhorse Ranch; District 128 of 39WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Wildhorse Hilltop	City/County: Austin/Travis		Sampling Date: 3/18/2021
Applicant/Owner: Kimley-Horn and Associates, Inc.		State: TX	Sampling Point: <u>89</u>
Investigator(s): Gabriel Nejad and Mason Finley	Section, Township, Range:		
Landform (hillslope, terrace, etc.):	Local relief (concave, convex	(, none): <u>Concave</u>	Slope (%):
Subregion (LRR): <u>North Great Plains</u> Lat: <u>30</u> .	336217 Long	<u>-97.577626</u>	Datum:
Soil Map Unit Name:		NWI classific	ation:
Are climatic / hydrologic conditions on the site typical for this time of year Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally prosecutive summary OF FINDINGS – Attach site map showing	ear? Yes / No / N	(If no, explain in R al Circumstances" p explain any answe ons, transects	emarks.) resent? Yes <u>No</u> No rs in Remarks.) , important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Waypoint 89, CEF-1	Is the Sampled Area within a Wetland?	Yes 🔽	

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1			·	That Are OBL, FACW, or FAC
2				(excluding FAC-): (A)
3				Total Number of Dominant
4				Species Across All Strata: <u>1</u> (B)
		= Total Co	ver	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC: 100% (A/B)
1				December of the land of the set
2			·	Prevalence index worksneet:
3				Total % Cover of: Multiply by:
4				OBL species $\frac{90}{45}$ x 1 = $\frac{90}{20}$
5.				FACW species $\frac{15}{2}$ x 2 = $\frac{30}{2}$
		= Total Co	ver	FAC species x 3 =
Herb Stratum (Plot size:)				FACU species 25 x 4 = 100
1. bushy blustem	15		FACW	UPL species 1 x 5 = 5
2. <u>boardleaf cattails</u>	10		OBL	Column Totals: <u>131</u> (A) <u>225</u> (B)
3. southern dewberry	25		FACU	4.7
4. common spike rush	80	\checkmark	OBL	Prevalence Index = B/A = <u>1.7</u>
5. Engelman daisy	1		UPL	Hydrophytic Vegetation Indicators:
6			·	1 - Rapid Test for Hydrophytic Vegetation
7			·	2 - Dominance Test is >50%
8			·	$\boxed{}$ 3 - Prevalence Index is $\leq 3.0^1$
0			·	4 - Morphological Adaptations ¹ (Provide supporting
3			·	data in Remarks or on a separate sheet)
10	131	Table	·	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:	101	= Total Co	ver	¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2			·	Hudrophytic
۷		- Total Ca		Vegetation
% Bare Ground in Herb Stratum		- 10tal C0	vei	Present? Yes Ves No
Remarks:				1

11 SP-2022-0426C.SH - Blueridge Multifamily at Wildhorse Ranch; District 1 Sampling Point: 89

-	-	
~	"	
• • •		L

Profile Des	cription: (Describe	e to the depth	needed to docun	nent the i	ndicator o	or confirm	n the absence	of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/2	99%					Clay	Hydric soils
	10YR 3/6	1%					Clay	Iron reduction
9-12+	10YR6/2	100%					Clay	Hydric soils
				·				
				·				
				·	<u> </u>			
¹ Type: C=C	concentration, D=De	pletion, RM=Re	educed Matrix, CS	S=Covered	d or Coate	d Sand Gr	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LR	Rs, unless other	wise not	ed.)		Indicators	o for Problematic Hydric Soils ³ :
Histoso	l (A1)		🔲 Sandy (Gleyed Ma	ıtrix (S4)		1 cm I	Muck (A9) (LRR I, J)
Histic E	pipedon (A2)		Sandy F	Redox (S5)		Coast	Prairie Redox (A16) (LRR F, G, H)
Black H	listic (A3)		Stripped	l Matrix (S	6)		Dark S	Surface (S7) (LRR G)
	en Sulfide (A4)	-		Mucky Mir	neral (F1)		High F	Plains Depressions (F16)
	a Layers (A5) (LRR	r) H)		Jeyed Ma	airix (F2) =2)			KK N OUISIGE OT MLKA (2 & 73)
	d Below Dark Surfa	се (А11)		u iviatrix (I)ark Surfa	-3) Ice (F6)			arent Material (TF2)
Thick D	ark Surface (A12)			d Dark Su	rface (F7)			Shallow Dark Surface (TF12)
Sandy I	Mucky Mineral (S1)		Redox [Depressio	ns (F8)		Other	(Explain in Remarks)
<u> </u>	Mucky Peat or Peat	(S2) (LRR G, H	l) 🔲 High Pla	ains Depre	essions (F	16)	³ Indicators	of hydrophytic vegetation and
<u> </u>	ucky Peat or Peat (63) (LRR F)	(ML	RA 72 & 7	73 of LRR	H)	wetlan	d hydrology must be present,
							unless	s disturbed or problematic.
Restrictive	Layer (if present):							
Туре:			_					\checkmark
Depth (in	iches):						Hydric Soil	Present? Yes No No
Remarks:								
Wetland Hy	drology indicators): i	haali all that an ul				Casand	
Primary Indi	cators (minimum or	one required; c		<u>y)</u>				ary indicators (minimum of two required)
	e Water (A1)		Salt Crust	(B11)	(D40)			face Soil Cracks (B6)
	ater Table (A2)			/ertebrate	S (B13)		V Spa	arsely Vegetated Concave Surface (B8)
	ion (A3)				r(C1)		<u>▼</u> Dra	linage Patterns (BTU)
	narks (BT)		Dry-Seaso	n vvater i	able (C2)			dized Rhizospheres on Living Roots (C3)
					res on Livi	ng Roois		vriete uned)
	at or Crust (B4)			of Poduco	d Iron (C4	\ \		uration Visible on Aerial Imagon (C0)
	nosite (B5)		Thin Muck		C7))		marchic Position (D2)
	ion Visible on Aerial	Imageny (B7)	Other (Evr		marke)			C-Neutral Test (D5)
Water-9	Stained Leaves (B9)				indik3)			st-Heave Hummocks (D7) (I RR F)
Field Obser	rvations:						<u> </u>	
Surface Wa	ter Present?	Ves 🗸 No		ches).				
Water Table	Procent?		Depth (ind			-		
						- Moti	and Hydrolog	
(includes ca	pillary fringe)			lies)		_ weu	and Hydrolog	
Describe Re	ecorded Data (stream	n gauge, monit	oring well, aerial p	photos, pr	evious ins	pections),	if available:	
Remarks:								

11 SP-2022-0426C.SH - Blueridge Multifamily at Wildhorse Ranch; District 130 of 39WETLAND DETERMINATION DATA FORM – Great Plains Region

Project/Site: Wildhorse Hilltop	City/County: A	ustin/Travis	Sampling Date: <u>3/18/2021</u>
Applicant/Owner: Kimley-Horn and Associates, Inc.		State: TX	Sampling Point: 110-132
Investigator(s): Gabriel Nejad and Mason Finley	Section, Towns	ship, Range:	
Landform (hillslope, terrace, etc.):	Local relief (co	oncave, convex, none): <u>conca</u>	ave Slope (%):
Subregion (LRR): North Great Plains	at: 30.337568	Long: <u>-97.575266</u>	Datum:
Soil Map Unit Name:		NWI clas	ssification:
Are climatic / hydrologic conditions on the site typical for this tim Are Vegetation, Soil, or Hydrology signif Are Vegetation, Soil, or Hydrology natur SUMMARY OF FINDINGS – Attach site map sho	e of year? Yes // / / / / / / / / / / / / / / / / /	No (If no, explain Are "Normal Circumstance (If needed, explain any an point locations, transe	in Remarks.) es" present? Yes No iswers in Remarks.)
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No Wetland Hydrology Present? Yes ✓ No Remarks:	Is the S	ampled Area a Wetland? Yes _	✓ No
Waypoints 110-132, pond with ~8ft wetlan	d fringe, CEF-	2	
	0 /		

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1. black willow	20	\checkmark	FACW	That Are OBL, FACW, or FAC
2. <u>cedar elm</u>	5	\checkmark	FAC	(excluding FAC-): 4 (A)
3				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	25	= Total Cov	ver	Demonst of Dominant Species
Sapling/Shrub Stratum (Plot size:)		rotar oo		That Are OBL, FACW, or FAC: 100% (A/B)
1				
2.				Prevalence Index worksheet:
3				Total % Cover of: Multiply by:
				OBL species <u>37</u> x 1 = <u>37</u>
4				FACW species $\frac{20}{x 2} = \frac{40}{x}$
5				FAC species 7 x 3 = 21
Horb Stratum (Plot size:		= Total Cov	ver	EACLI species 5 x 4 = 20
common spike rush	25	1	OBI	
- current crowfoot	20	<u>v</u>		$\begin{array}{c} \text{OFL species} \\ \text{OFL species} \\$
2. broadlast asttail	10			Column Totals. $\underline{\sim}$ (A) $\underline{\sim}$ (D)
		✓	5400	Prevalence Index = $B/A = 1.7$
4. red seed plantain	5		FAGU	Hydrophytic Vegetation Indicators:
5. hairyfruit chervil	2		FAC	\square 1 Papid Test for Hydrophytic Vegetation
6				\square 1 - Rapid Test for Hydrophytic Vegetation
7				
8				\square 3 - Prevalence Index is $\leq 3.0^{\circ}$
9.				4 - Morphological Adaptations' (Provide supporting
10				
10	44	- Total Ca	or	
Woody Vine Stratum (Plot size:)		- 101al CO	vei	¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Hydrophytic
2		- Tatal Ca		Vegetation
% Bare Ground in Herb Stratum		- 10tal C0	vei	Present? Yes Ves No
Remarks:				1

11 SP-2022-0426C.SH - Blueridge Multifamily at Wildhorse Ranch; District 1 31 of 3

SOIL

ict 1 31 of 39 Sampling Point: 110-132

Depth	Matrix		Redox Features		i the absence	or multators.)
(inches)	Color (moist)	<u>%</u> C	Color (moist)%Type ¹	Loc ²	Texture	Remarks
0-12	10YR 5/1	100			clay	hydric soil with out redox concentrations
				<u> </u>		
¹ Type: C=C	oncentration, D=De	pletion, RM=Red	luced Matrix, CS=Covered or Coated	Sand Gra	ains. ² Loc	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LRR	s, unless otherwise noted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gleyed Matrix (S4)			/luck (A9) (LRR I, J)
	pipedon (A2)		Sandy Redox (S5)			Prairie Redox (A16) (LRR F, G, H)
	ISTIC (A3)		Loomy Mucky Minoral (E1)			Purface (S7) (LRR G)
Stratified	d Lavers (A5) (LRR	F)	Loamy Gleved Matrix (F2)		(LR	R H outside of MLRA 72 & 73)
	ick (A9) (LRR F. G.	H)	Depleted Matrix (F3)			ed Vertic (F18)
Deplete	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)
D Sandy N	lucky Mineral (S1)		Redox Depressions (F8)		U Other	(Explain in Remarks)
<u> </u>	Mucky Peat or Peat	(S2) (LRR G, H)	High Plains Depressions (F1	6)	°Indicators	of hydrophytic vegetation and
<u> </u>	icky Peat or Peat (S	53) (LRR F)	(MLRA 72 & 73 of LRR F	-)	wetland	d hydrology must be present,
Restrictive	aver (if present):				uniess	disturbed of problematic.
Type	Layer (il present).					
Depth (in	ches):				Hydric Soil	Present? Yes No
Remarks:						
	GV					
Wetland Liv		-				
wetland Hy	drology indicators				0	
Primary India	cators (minimum of	one requirea; ch				ary indicators (minimum of two required)
	Water (A1)		$\Box \text{Salt Crust (B11)}$		Sur	ace Soil Cracks (B6)
	ater Table (A2)		Aquatic Invertebrates (B13)		IV Spa	rsely Vegetated Concave Surface (B8)
	on (A3) Jorka (B1)		Hydrogen Suilide Odor (C1)			nage Patterns (BTU)
	arks (DT)		Ovidized Phizephores on Livin	a Pooto (where tilled
	$B_{\rm D}$		(where not tilled)	ig Roots (ufish Burrows (C8)
	at or Crust (B4)		Presence of Reduced Iron (C4)			ration Visible on Aerial Imagery (C9)
	(B5)		Thin Muck Surface (C7)			morphic Position (D2)
<u>⊡</u> Inundati	on Visible on Aerial	Imagery (B7)	Other (Explain in Remarks)		<u> </u>	-Neutral Test (D5)
Water-S	tained Leaves (B9)	inagoly (D1)				st-Heave Hummocks (D7) (LRR F)
Field Obser	vations:					(
Surface Wat	er Present?	Yes 🗹 No	Depth (inches):			
Water Table	Present?	Yes 🔽 No	Depth (inches):	-		
Saturation P	resent?	Yes 🔽 No	Depth (inches):	Wetla	and Hydrolog	v Present? Yes No
(includes cap	oillary fringe)	<u> </u>				
Describe Re	corded Data (strear	n gauge, monitor	ring well, aerial photos, previous insp	ections), i	if available:	
Remarks:						
Nomarito.						



Q9-1: Site Specific Geology Map with 2-ft Topography