(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

20% of Total Cover: 20

20% of Total Cover: 0

(Plot Size : 30 )

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1.\_\_\_\_

**Herb Stratum** 

1 . Arundo donax

2 \_ Cvnodon dactvlon

3 . Parietaria pensvlvanica 4 . Chaerophyllum tainturieri

50% of Total Cover: 50

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0\_

0 \_

0

0\_\_\_ 0

0

0

0

0

0

0

0

0

0

0

0

90 🗸

4

0

0 0

0

0

0 0

0

0 0

100

Rel.Strat. Indicator

0.0%

0.0%

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0% 0.0%

0.0%

0.0%\_

90.0% FAC

5.0% FACU

4.0% FACU

1.0%\_\_FAC\_\_

0.0% 0.0%\_ 0.0%\_ \_ 0.0%\_

0.0%

0.0%\_ 0.0%

0.0%\_ \_

0.0%

0.0%\_

0.0% 0.0%

0.0%\_

= Total Cover

= Total Cover

\_\_\_\_0.0%\_\_

= Total Cover

0.0%\_

0.0%

Status

Dominance Test worksheet:			
Number of Dominant Species			
That are OBL, FACW, ro FAC:		3	(A)
Total Number of Dominant			
Species Across All Strata:		5	(B
Percent of Dominant Species That are OBL, FACW, or FAC:		60.0%	(A/B)
Prevalence Index worksheet:			
Total % Cover of:	Multip		_
OBL species 0	x 1		
FACW species 0	x 2	272	
FAC species 91	x 3	2.0	
FACU species 9 UPL species 0	x 4 x 5	_	
Colum Totals: 100	(A)	309	(B)
Prevalence Index = B/A=	(~)		
Hydrophytic Vegetation Indica		3.090	
Problematic Hydrophytic N  1 Indicators of hydric soil and hydrology must be present, u	i wetla	and	in)
<sup>1</sup> Indicators of hydric soil and	d wetlandess	and disturbed or a: ody vines, n height and	3 in.
¹ Indicators of hydric soil and hydrology must be present, under the present of t	d wetlanless Strata ng wo more i r at bre	and disturbed or a: ody vines, n height and east height ( woody vines	3 in. DBH).
¹ Indicators of hydric soil and hydrology must be present, under the present, under the present of the present	d wetlanless of strata of the	and disturbed or a: ody vines, n height and east height ( woody vines n height and	3 in. DBH). , less
¹ Indicators of hydric soil and hydrology must be present, under the present of	d wetlanless of strata of the	and disturbed or a: ody vines, n height and east height ( woody vines n height and luding vines, 28 ft (1m) tal	3 in. DBH). , less
Definition of Vegetation Tree - Woody plants, excludi approximately 20 ft (6 m) or (7.6 cm) or larger in diameter Sapling - Woody plants, excludi approximately 20 ft (6 m) or not than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plant than 3 in. DBH and greater the	Stratang womore in at brown at	and disturbed or a: ody vines, n height and east height ( woody vines, n height and luding vines, 28 ft (1m) tal oody vines, n height.	3 in. DBH). , less less l.
Definition of Vegetation approximately 20 ft (6 m) or a than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants than 3 in. DBH and greater than 3 in. DBH and greater than 3 in. DBH and greater than 3 in. All herbaceous (non-wherbaceous vines, regardless plants, except woody vines, let	Stratang womore in at browning more in an 3.2 ding woody) is of sizess the	and disturbed or a: ody vines, n height and east height ( woody vines, n height and luding vines, 28 ft (1m) tal oody vines, n height.  plants, inclu ee, and wood an approxim	3 in. DBH). , less less l. dding

Domarke	(If obcorred	list morphological	adaptations	holow
Ciliai Ks.	(II Observed,	list moi priologicai	auaptations	Delow).

Profile Description	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u> </u>	lor (moist)	<u>%</u>	Tvpe1	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/2	100					Sandy Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	Reduced Matri	x, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	atic Hydric Soils³:
5 cm Mucky Min  Muck Presence (  1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Matrix (Stripped Matrix (Stripped Matrix)	e (A4) (A5) (A6) (LRR P, T, U) eral (A7) (LRR P, T, (A8) (LRR U) (LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4) 5)	0A)	Thin D Loamy Loamy Deplet Redox Deplet Redox Marl (I Deplet Iron-M Umbric Delta G Reduc	Park Surface  Mucky Mi  Gleyed M  Gl	(F3) ace (F6) urface (F7) ons (F8) U) (F11) (MLRA 1 Masses (F12) (F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15) Jain Soils (F19	.T, U) R O) .51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	. ,						ydric Soil Present? Ye	es No •
Remarks:								

State: TX   Sampling Point:
Local relief (concave, convex, none): Convex
bregion (LRR): LRR T
In Map Unit Name: Raymondville clay loam, 1 to 3 percent slopes (RaB)  NWI Classification: PUBFh  e 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 disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation   , Soil , or Hydrology   naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No   Is the Sampled Area within a Wetland? Yes No within a Wetland?  Wetland Hydrology Present? Yes No   No within a Wetland?  Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)   Secondary Indicators (Minimum of 2 required)   Synface Water (A1)   Aquatic Fauna (B13)   Sparsely Vegetated Concave Surface (B8)   High Water Table (A2)   Marl Deposits (B15) (I.R. U)   Drainage Patterns (B10)   Drainage Patterns (B10)   Moss Trin Lines (B16)   Moss Trin Lines (B16)   Water Marks (B1)   Oxidized Rhizospheres along Living Roots (C3)   Dry Season Water Table (C2)   Sediment Deposits (B2)   Presence of Reduced Iron (C4)   Crayfish Burrows (C8)   Saturation (Visible on Aerial Imagery (C9)
e climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation S, Soil O, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation No Or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland?  Wetland Hydrology Present? Yes No No Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Secondary Indicators (Minimum of 2 required)  Sparsely Vegetated Concave Surface (B8)  High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10)  Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)  Water Marks (B1) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2)  Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8)  Portic Deposits (B3) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Are Vegetation  , Soil  , or Hydrology
Are Vegetation  , Soil  , or Hydrology
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  JMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Saturation (Al) Surface Water (Al) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) High Water Table (A2) Marl Deposits (B15) (LRR U) Drainage Patterns (B10) Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) Sediment Deposits (B2) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
JMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present?  Yes No  No  Is the Sampled Area within a Wetland?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present. This is not a wetland.  WPDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)  High Water Table (A2)  High Water Table (A2)  Marl Deposits (B15) (LRR U)  Saturation (A3)  Hydrogen Sulfide Odor (C1)  Water Marks (B1)  Oxidized Rhizospheres along Living Roots (C3)  Presence of Reduced Iron (C4)  Presence of Reduced Iron (C4)  Remarks:  No  No  No  No  No  No  No  No  No  N
Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  High Water Table (A2)  Water Marks (B1)  Water Marks (B2)  Presence of Reduced Iron (C4)  Presence of Reduced Iron (C4)  Reamarks:  Hydric Soil Present?  Yes  No  No  No  Secondary Indicators (Minimum of 2 required)  Secondary Indicators (Minimum of 2 required)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present. This is not a wetland.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  High Water Table (A2)  Saturation (A3)  Hydrogen Sulfide Odor (C1)  Water Marks (B1)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Prift Deposits (B3)  Within a Wetland?  Within a Wetland.  Within a Wetland?  Within a Wetland?  Within a Wetlan
Remarks: Hydric soil is not present. This is not a wetland.    YDROLOGY
Hydric soil is not present. This is not a wetland.    YDROLOGY
YDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (Minimum of one required; check all that apply)       Secondary Indicators (Minimum of 2 required)         Surface Water (A1)       Aquatic Fauna (B13)       Sparsely Vegetated Concave Surface (B8)         High Water Table (A2)       Marl Deposits (B15) (LRR U)       Drainage Patterns (B10)         Saturation (A3)       Hydrogen Sulfide Odor (C1)       Moss Trim Lines (B16)         Water Marks (B1)       Oxidized Rhizospheres along Living Roots (C3)       Dry Season Water Table (C2)         Sediment Deposits (B2)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         ✓ Drift Deposits (B3)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Prift Deposits (B3)  Secondary Indicators (Minimum of 2 required)  Sparsely Vegetated Concave Surface (B8)  Notation (B10)  Saturation (A3)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Prift Deposits (B3)  Secondary Indicators (Minimum of 2 required)  Sparsely Vegetated Concave Surface (B8)  Notation (B10)  Saturation (A3)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Prift Deposits (B3)  Secondary Indicators (Minimum of 2 required)  Sparsely Vegetated Concave Surface (B8)  Notation (B10)  Saturation (A3)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Primary Indicators (Minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Prish Deposits (B3)  Secondary Indicators (Minimum of 2 required)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Surface Water (A1)  Aquatic Fauna (B13)  Sparsely Vegetated Concave Surface (B8)  High Water Table (A2)  Marl Deposits (B15) (LRR U)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Water Marks (B1)  Oxidized Rhizospheres along Living Roots (C3)  Dry Season Water Table (C2)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)  Presence of Aerial Imagery (C9)
High Water Table (A2)  Marl Deposits (B15) (LRR U)  Saturation (A3)  Hydrogen Sulfide Odor (C1)  Water Marks (B1)  Oxidized Rhizospheres along Living Roots (C3)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Saturation (A3)  Hydrogen Sulfide Odor (C1)  Moss Trim Lines (B16)  Water Marks (B1)  Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Drift Deposits (B3)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roots (C3)  Dry Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)
Water Marks (B1)       Oxidized Rhizospheres along Living Roots (C3)       Dry Season Water Table (C2)         Sediment Deposits (B2)       Presence of Reduced Iron (C4)       Crayfish Burrows (C8)         ✓ Drift Deposits (B3)       Recent Iron Reduction in Tilled Soils (C6)       Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  □ Crayfish Burrows (C8)  □ Drift Deposits (B3)  Recent Iron Reduction in Tilled Soils (C6)  □ Saturation Visible on Aerial Imagery (C9)
✓ Drift Deposits (B3)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)  Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remarks)  Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)  FAC-Neutral Test (D5)
Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No No Depth (inches):
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:
Describe Recorded Data (Stream gauge, monitor Well, dental priotos, previous inspections), il dividiable.
Remarks:

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

20% of Total Cover: 18

(Plot Size : 30 )

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

2.\_Andropogon gerardii

50% of Total Cover: 45

**Woody Vine Stratum** 

1.\_\_\_

3 . Cvnodon dactvlon 4 . Galium aparine

1.\_\_\_\_

**Herb Stratum** 

1 . Arundo donax

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0

0 \_

0

0 0

0

0

0

0

0

0

0

0 0

0

0

0

0 0

0

0

90

0

0

0 0 Rel.Strat. Indicator

0.0%\_

0.0%

0.0% 0.0%

0.0% 0.0%

\_\_\_\_0.0%\_\_\_\_

= Total Cover

0.0%

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%

0.0%

0.0% 0.0%

0.0% 0.0%

0.0%

\_\_\_16.7%\_\_FACU

5.6% FACU

0.0%

0.0% 0.0%\_ \_ 0.0%

0.0%\_

0.0% 0.0%

0.0%\_

0.0%\_

0.0%

0.0% 0.0%

= Total Cover

= Total Cover

50 **1** \_ 55.6% FAC

20 **✓** \_\_\_22.2%\_\_FAC

0.0%

0.0%

Status

Number of Dominant Species That are OBL, FACW, ro FAC:  1  Total Number of Dominant		
Total Number of Dominant	(A)	.)
Species Across All Strata: 1	(B	;
Percent of Dominant Species		
That are OBL, FACW, or FAC: 100.0	)% (A,	/B)
Prevalence Index worksheet:		
Total % Cover of: Multiply by:		
OBL species0 x 1 =	0	
FACW species $0 \times 2 = $	0	
FAC species $70 \times 3 =$	210	
FACU species	80_	
UPL species 0 x 5 =	0_ 	_ \
Colum Totals: <u>90</u> (A) <u> </u>	290 (1	B)
Prevalence Index = B/A=	3.222	
Hydrophytic Vegetation Indicators:		
Problematic Hydrophytic Vegetation <sup>1</sup> (I  1 Indicators of hydric soil and wetland	Explain)	
_ , , , , ,		
¹ Indicators of hydric soil and wetland		
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin	ed or	
<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturb Definition of Vegetation Strata:	ed or es, t and 3 in.	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh	ed or es, t and 3 in. ight (DBH)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he  Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh	ed or es, it and 3 in. ight (DBH)	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody	ed or es, it and 3 in. ight (DBH)	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh than 3 in. (7.6 cm) DBH.	es, t and 3 in. ight (DBH) vines, t and less	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he  Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh	es, t and 3 in. ight (DBH) vines, t and less	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1)	es, t and 3 in. ight (DBH) vines, t and less vines, less m) tall.	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody plants, excluding woody plants.	es, t and 3 in. ight (DBH) vines, t and less vines, less n) tall.	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1 m).  Shrub - Woody plants, excluding woody vin approximately 3 to 20 ft (1 to 6 m) in height	es, t and 3 in. ight (DBH) vines, t and less vines, less m) tall. nes,	).
Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in heigh (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in heigh than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1 m) Shrub - Woody plants, excluding woody vin approximately 3 to 20 ft (1 to 6 m) in heighter - All herbaceous (non-woody) plants,	es, t and 3 in. ight (DBH) vines, t and less vines, less m) tall. nes, it.	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1 m) Shrub - Woody plants, excluding woody vin approximately 3 to 20 ft (1 to 6 m) in height Herb - All herbaceous (non-woody) plants, herbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 20 ft (2 m) or more in height plants.	es, t and 3 in. ight (DBH) vines, t and less vines, less m) tall. nes, ht. including woody	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1 m) Shrub - Woody plants, excluding woody vin approximately 3 to 20 ft (1 to 6 m) in height Herb - All herbaceous (non-woody) plants, herbaceous vines, regardless of size, and	es, t and 3 in. ight (DBH) vines, t and less vines, less m) tall. nes, ht. including woody	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1 m) Shrub - Woody plants, excluding woody vin approximately 3 to 20 ft (1 to 6 m) in height Herb - All herbaceous (non-woody) plants, herbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 20 ft (2 m) or more in height plants.	es, t and 3 in. ight (DBH) vines, t and less wines, less m) tall.  nes, nt.  including woody roximately	).
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed.  Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vin approximately 20 ft (6 m) or more in height (7.6 cm) or larger in diameter at breast he Sapling - Woody plants, excluding woody approximately 20 ft (6 m) or more in height than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding woody than 3 in. DBH and greater than 3.28 ft (1 m) Shrub - Woody plants, excluding woody vin approximately 3 to 20 ft (1 to 6 m) in height Herb - All herbaceous (non-woody) plants, herbaceous vines, regardless of size, and plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 3 to 20 ft (1 to 6 m) in height plants, except woody vines, less than approximately 20 ft (2 m) or more in height plants (3 m) or more in height plants (3 m) or more in height plants (4 m)	es, t and 3 in. ight (DBH) vines, t and less vines, less m) tall. nes, ht. including woody	).

5	0.0%	Present r
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
Remarks: (If observed, list morphological adaptations below).		

Profile Description	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u></u>	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 4/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	Reduced M	atrix, CS=Covered	or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	ntic Hydric Soils³:
5 cm Mucky Min  Muck Presence (  1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Matrix (Stripped Matrix (Stripped Matrix)	e (A4) (A5) (A6) (LRR P, T, U) eral (A7) (LRR P, T, (A8) (LRR U) (LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4) 5)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surfac Mucky Mi Gleyed M. Ed Matrix ( Dark Surfac Ed Dark St Depressio 10) (LRR Ed Ochric anganese Surface ( Chric (F17 d Vertic ( Int Floodp	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	. ,					H	lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site: Bluewater Te	rminal SPM Project	City/County: San Patr	ricio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips	66 Pipeline, LLC	State	e: TX <b>S</b> ar	mpling Point:	UPP1008
investigator(s): B. Bringh	urst & A. Ostrowski	Section	on, Township, Range:	S N/A T N/A	R N/A
andform (hillslope, terrace	e, etc.): Flat	Local relief (concave	, convex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.909918	Long: -97	376306	Datum: NAD 83
	ondville clay loam, 1 to 3 percent		NWI Classificati		10.00
			_		
Are climatic/hydrologic con	nditions on the site typical for t	this time of year? Yes	No (If no, exp	olain in Remarks.)	
Are Vegetation 🗸 ,	Soil 🗸 , or Hydrology	significantly disturbed?	Are "Normal Circur	mstances" present?	Yes 💿 No 🔾
Are Vegetation ,	Soil , or Hydrology	naturally problematic?	(If needed, explain	n any answers in Rer	marks.)
SUMMARY OF FINDING	S – Attach site map showi	ng sampling point locations, t	ransects, importan	t features, etc.	
Hydrophytic Vegetation Pres	ent? Yes • 1	No O			
Hydric Soil Present?			e Sampled Area n a Wetland?	Yes C	No •
Wetland Hydrology Present?	Yes • 1	No O	ira wellana:		
	hydric soil are not present. This is	not a wetland.			
HYDROLOGY					
Wetland Hydrology Indic		II that annly)	Coondon, In	diantaua (Minimuum	af 2 waguiwad)
	num of one required; check al			ndicators (Minimum	. ,
Surface Water (A1)		quatic Fauna (B13)		ely Vegetated Concave	Surface (B8)
High Water Table (A2)		arl Deposits (B15) (LRR U)		age Patterns (B10)	
Saturation (A3)		/drogen Sulfide Odor (C1)		Trim Lines (B16)	<b>、</b>
Water Marks (B1)		kidized Rhizospheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)		esence of Reduced Iron (C4)		sh Burrows (C8)	(20)
Drift Deposits (B3)		ecent Iron Reduction in Tilled Soils (C6)		ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		nin Muck Surface (C7)		orphic Position (D2)	
Iron Deposits (B5) Inundation Visible on Ae		ther (Explain in Remarks)		ow Aquitard (D3)	
	• , , ,			Neutral Test (D5)	- 10
☐ Water-Stained Leaves (E			Sphag	gnum moss (D8) (LRR 1	Γ, U)
Field Observations:					
Surface Water Present?	Yes O No •	Depth (inches):			
Water Table Present?	Yes No •	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes   No	Depth (inches):0	Wetland Hydr	ology Present? Ye	s • No O
Describe Recorded Data (str	eam gauge, monitor well, aerial p	photos, previous inspections), if availabl	e:		

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum 1.\_\_\_\_

**Herb Stratum** 

50% of Total Cover: 0

1 . Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0\_\_\_

0

0\_

0 \_

0

0\_\_\_

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

0

0

0

0

0

Rel.Strat. Indicator

0.0%\_

0.0%\_

0.0% 0.0%

0.0%

0.0%

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0% 0.0%

= Total Cover

0.0%\_

0.0%\_ 0.0%

0.0%

0.0%

0.0%

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%

0.0% 0.0%\_ 0.0%\_ 0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_ \_

0.0%

0.0%\_

0.0%

0.0%

0.0%

= Total Cover

Vegetation

Present?

= Total Cover

0.0%

0.0%

= Total Cover

0.0%

Status

Sampling Point:	UPP10	08	
Dominance Test worksheet:			
Number of Dominant Species That are OBL, FACW, ro FAC:		2	(A)
Total Number of Dominant Species Across All Strata:		2	(В
Percent of Dominant Species That are OBL, FACW, or FAC:		100.0%	(A/B)
Prevalence Index worksheet	:		
Total % Cover of:	Multip	ly by:	
OBL species 0	x 1	=0	_
FACW species 0	_ x 2	=0_	
FAC species 0	_ x 3	=	
FACU species 2	_ x 4	=8_	
UPL species 0	_ x 5	=	
Colum Totals: 2	(A)	8_	(B)
Prevalence Index = B/A=	-	4.000	
1 - Rapid Test for Hydro  2 - Dominance Test is >  3 - Prevalence Index is:  Problematic Hydrophytic  1 Indicators of hydric soil a hydrology must be present	50% ≤ 3.0¹ c Vegeta	tion¹ (Explai	n)
Definition of Vegetation Tree - Woody plants, exclusion approximately 20 ft (6 m) of (7.6 cm) or larger in diametric Sapling - Woody plants, exapproximately 20 ft (6 m) of than 3 in. (7.6 cm) DBH.	ding wo r more i ter at bro	ody vines, n height and east height (I woody vines	OBH).
Sapling/Shrub - Woody pla than 3 in. DBH and greater			
Shrub - Woody plants, excl approximately 3 to 20 ft (1			
Herb - All herbaceous (non herbaceous vines, regardle plants, except woody vines 3 ft (1 m) in height.	ss of siz	ze, and wood	у
Woody vine - All woody vin	es, rega	rdless of hei	ght.
Hydrophytic			

Remarks: (If observ	ad list marphale	ogical adaptation	c halaw)

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

No O

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,						lydric Soil Present? Ye	s ○ No ●
Remarks:								

City/County: San Patricio

Sampling Date:

2/4/2019

Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX	Sampling P	oint:	UPP100	9
Investigator(s): B. Bringhurst & A. Ostrowski	Section, To	ownship, Range: S N/A	T N/A	R N/A	
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, conv	vex, none): Flat		Slope: 0	% 0.0 °
Subregion (LRR): LRR T	<b>Lat:</b> 27.909525	Long: -97.370263		Datum:	NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)		NWI Classification: Non	 e	_	
Are climatic/hydrologic conditions on the site typical for this time of y	rear? Yes • No	(If no, explain in R	emarke )		
	<u> </u>		_	(2)	0
	•	e "Normal Circumstances	-	Yes •	No U
Are Vegetation , Soil , or Hydrology natura	ally problematic? (If	f needed, explain any ans	wers in Ker	narks.)	
SUMMARY OF FINDINGS — Attach site map showing sampling	g point locations, transe	ects, important featur	es, etc.		
Hydrophytic Vegetation Present? Yes No •					
Hydric Soil Present? Yes No •	Is the San within a W	npled Area Vetland?	Yes C	No 💿	
Wetland Hydrology Present? Yes   No	Willing	· ottaria ·			
Remarks: Hydrophytic vegetation and hydric soil are not present. This is not a wetland.					
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (Minimum of one required; check all that apply)		Secondary Indicators	(Minimum	of 2 required)	
Surface Water (A1)  Aquatic Fauna (B	(13)	Sparsely Vegeta	-	•	
High Water Table (A2)  Marl Deposits (B:	,	Drainage Patter		Surface (DO)	
✓ Saturation (A3) Hydrogen Sulfide		Moss Trim Line			
	heres along Living Roots (C3)	Dry Season Wa		)	
Sediment Deposits (B2)  Presence of Redu	uced Iron (C4)	Crayfish Burrov	-	,	
☐ Drift Deposits (B3) ☐ Recent Iron Redu	uction in Tilled Soils (C6)	Saturation Visib	le on Aerial I	magery (C9)	
Algal Mat or Crust (B4) Thin Muck Surfac	ce (C7)	Geomorphic Po	sition (D2)		
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aquitar	d (D3)		
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Te	st (D5)		
Water-Stained Leaves (B9)		Sphagnum mos	s (D8) (LRR <sup>-</sup>	Γ, U)	
Field Observations:					
Surface Water Present? Yes No • Depth (inches	s):				
Water Table Present? Yes No   Depth (inche:	s):				
Saturation Present? (includes capillary fringe) Yes • No O Depth (inches	s): 0	Wetland Hydrology Pr	esent? Ye	s • No	0
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous	s inspections), if available:				
Remarks:					
Remarks.					

**Project/Site:** Bluewater Terminal SPM Project

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 \_Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0\_

0 \_

0

0 0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

0

0

0 0 Rel.Strat. Indicator

0.0%\_

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0%

0.0%

0.0%

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%\_

0.0% 0.0%\_ 0.0%\_ 0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%\_

0.0%

0.0% 0.0%\_

0.0%

= Total Cover

= Total Cover

0.0%

0.0%

Status

Sampling Point: U	PP1009	
Dominance Test worksheet:		
Number of Dominant Species That are OBL, FACW, ro FAC:	0	
mat are obe, thew, to the.		(A)
Total Number of Dominant Species Across All Strata:		(В
Percent of Dominant Species That are OBL, FACW, or FAC:	0.0%_	(A/B)
Prevalence Index worksheet:		
	Multiply by:	_
OBL species 0	$x 1 = \frac{0}{0}$	
FACW species 0	^	
FAC species0	$x \ 3 = \frac{0}{8}$	
UPL species 0	x 5 = 0	
Colum Totals: 2	(A) 8	(B)
Prevalence Index = B/A=	4.000	(-)
Hydrophytic Vegetation Indicat		
<sup>1</sup> Indicators of hydric soil and hydrology must be present, un		
Definition of Vegetation S Tree - Woody plants, excludin approximately 20 ft (6 m) or m (7.6 cm) or larger in diameter	g woody vines, ore in height and	
Sapling - Woody plants, exclu approximately 20 ft (6 m) or m than 3 in. (7.6 cm) DBH.		less
Sapling/Shrub - Woody plants than 3 in. DBH and greater tha		
Shrub - Woody plants, excludi approximately 3 to 20 ft (1 to 6		
Herb - All herbaceous (non-wo herbaceous vines, regardless plants, except woody vines, le 3 ft (1 m) in height.	of size, and wood	<i>y</i>
Woody vine - All woody vines,	regardless of heig	ght.
Hydrophytic Vegetation Yes Present ?	○ No •	

Remarks: (	If observed,	list morphological	adaptations below	١.
recinal its.	(II ODSCIVEU)	not morphological	adaptations below	,,

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
Trus a Co Connectoration	on D-Douleties DMA	-Dadward	Matriu CC-Cayanad	as Castada	Sand Crains	Zlacation, DI - Dava	History McMatrix	
¹Type: C=Concentration	•	=Reduced	Matrix, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore	-	stic Usadrie Coile3.
Hydric Soil Indica	tors:						Indicators for Problema	atic Hydric Soils <sup>3</sup> :
Histosol (A1)			Polyval	ue Below	Surface (S8) (	(LRR S, T, U)	1 cm Muck (A9) (LRR	0)
Histic Epipedon (	` '		Thin Da	ark Surfac	ce (S9) (LRR S	, T, U)	2 cm Muck (A10) (LR	R S)
Black Histic (A3)			Loamy	Mucky M	ineral (F1) (LR	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
Hydrogen Sulfide	` ,		Loamy	Gleyed M	latrix (F2)		Piedmont Floodplain S	Soils (F19) (LRR P, S, T)
Stratified Layers	, ,		Deplete	ed Matrix	(F3)		Anomalous Bright Loa	amy Soils (F20) (MLRA 153B)
	(A6) (LRR P, T, U)		Redox	Dark Surf	ace (F6)		Red Parent Material (	TF2)
	eral (A7) (LRR P, T,	U)	Deplete	ed Dark S	urface (F7)		Very Shallow Dark Su	rface (TF12)
Muck Presence (			Redox	Depressio	ons (F8)		Other (Explain in Rem	narks)
1 cm Muck (A9)			Marl (F	10) (LRR	U)			
Depleted Below	Dark Surface (A11)		Deplete	ed Ochric	(F11) (MLRA	151)		
Thick Dark Surfa	, ,		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)		
Coast Prairie Rec	dox (A16) (MLRA 15	50A)	Umbric	Surface (	(F13) (LRR P,	T, U)		
Sandy Muck Min	eral (S1) (LRR O, S)	)	Delta C	chric (F1	7) (MLRA 151)	)		of hydrophytic vegetation and hydrology must be present,
Sandy Gleyed Ma	atrix (S4)		Reduce	ed Vertic (	(F18) (MLRA 1	50A, 150B)		disturbed or problematic.
Sandy Redox (S	5)					) (MLRA 149A)		
Stripped Matrix (	(S6)					(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	7) (LRR P, S, T, U)				,	(, (	,, ,	
						1		
Restrictive Layer ( Type: Depth (inches):	. ,					+	lydric Soil Present? Ye	s No •
Remarks:								

Project/Site: Bluewater Terminal SPM Project	City/County: San Patricio Sampling Date: 2/4/2019
Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX Sampling Point: UPP1010
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Township, Range: S N/A T N/A R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Flat Slope: 0 % 0.0 °
Subregion (LRR): LRR T	Lat: 27.909291 Long: -97.360346 Datum: NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)	NWI Classification: None
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 🗌 sign	ificantly disturbed? Are "Normal Circumstances" present? Yes ● No ○
Are Vegetation , Soil , or Hydrology natu	urally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampli	ng point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No •	Is the Sampled Area within a Wetland?  No  No
Wetland Hydrology Present? Yes No •	Willing Wording.
Remarks: Hydrophytic vegetation, hydric soil, and wetland hydrology are not present.  HYDROLOGY	. This is not a wetland.
Wetland Hydrology Indicators:	
Primary Indicators (Minimum of one required: check all that apply	Secondary Indicators (Minimum of 2 required)
Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (  Marl Deposits (	, ,
Saturation (A3)  Hydrogen Sulfic	
	spheres along Living Roots (C3)  Dry Season Water Table (C2)
	iduced Iron (C4) Crayfish Burrows (C8)
	eduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	
Iron Deposits (B5) Other (Explain i	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inch	nes):
Water Table Present? Yes No Depth (inch	·
Saturation Present?	Wotland Hydrology Present? Yes No. 0
(includes capillary fringe)  Yes  No  Depth (inch	les):
Describe Recorded Data (stream gauge, monitor well, aerial photos, previo	ous inspections), if available:

			Dominant	Dominance Test worksheet:
		Absolute	Species? Rel.Strat. Indicator	Number of Dominant Species
		% Cover	Cover Status	That are OBL, FACW, ro FAC:0 (A)
Tree Stratum	(Plot Size : <u>30</u> )			
1		0	0.0%_	Total Number of Dominant Species Across All Strata:1 (B
2				,
3			0.0%	Percent of Dominant Species That are OBL, FACW, or FAC:  0.0% (A/B)
4				That are OBL, FACW, OF FAC.
5			0.0%	Prevalence Index worksheet:
6			0.0%	Total % Cover of: Multiply by:
7			0.0%	OBL species $0 \times 1 = 0$
8			0.0%	FACW species $0 \times 2 = 0$
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	FAC species $0 \times 3 = 0$
Sapling or Sapling/Shrub S	<b>Stratum</b> (Plot Size : <u>30</u> )			FACU species $2 \times 4 = 8$
1			0.0%_	UPL species $0 \times 5 = 0$
2			0.0%_	Colum Totals: $2$ (A) $8$ (B)
3				Prevalence Index = B/A= 4.000
4		Г		Illudus shutis Var station Tudicatous
5				Hydrophytic Vegetation Indicators:
6		Г		1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is > 50%
8			0.0%	3 - Prevalence Index is ≤ 3.0¹
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Shrub Stratum	(Plot Size : <u>30</u> )	-		
1			0.0%	<sup>1</sup> Indicators of hydric soil and wetland
2			0.0%	hydrology must be present, unless disturbed or
3			0.0%	
4			0.0%_	Definition of Vegetation Strata:
5			0.0%	Tree - Woody plants, excluding woody vines,
6		0	0.0%	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	(7.0 cm) of larger in diameter at breast height (DDH).
Herb Stratum	(Plot Size : <u>30</u> )			Sapling - Woody plants, excluding woody vines,
1 . Cvnodon dactvlon		2		approximately 20 ft (6 m) or more in height and less
2			0.0%_	than 3 in. (7.6 cm) DBH.
3		0	0.0%_	O a l'a d'Obra la Marada de de cara de l'accident
4			0.0%	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5		0	0.0%_	than 5 in. DBH and greater than 5.25 it (1111) tall.
6		0	0.0%_	Shrub - Woody plants, excluding woody vines,
7		0	0.0%_	approximately 3 to 20 ft (1 to 6 m) in height.
8		0	0.0%_	
9		0	0.0%_	Herb - All herbaceous (non-woody) plants, including
10		0	0.0%_	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
11		0	0.0%_	3 ft (1 m) in height.
12		0	0.0%_	
50% of Total Cover: 1	20% of Total Cover: 0.4	2	= Total Cover	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum	(Plot Size : <u>30</u> )			
1		0_	0.0%	
2.		0	0.0%	
3.		Г	0.0%	Hydrophytic
4.		r	0.0%	Vegetation Yes No •
5			0.0%	Present ?
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	
ompulses (If observed link assessment	abological adaptations to low	\		
emarks: (If observed, list morp	onological adaptations below	)•		

Sampling Point:

UPP1010

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,						lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site: Bluewater Te	erminal SPM Project		City/County: San Patr	icio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips	66 Pipeline, LLC		State	: TX	Sampling Point:	UPP1011
Investigator(s): B. Bringh	urst & A. Ostrowski		Section	on, Township, Ra	nge: S N/A T N/A	R N/A
Landform (hillslope, terrace	e, etc.): Footslope		Local relief (concave,	convex, none):	Convex	<b>Slope:</b> 3 % 1.7 °
Subregion (LRR): LRR T			<b>Lat:</b> 27.909398	Long	: -97.360017	Datum: NAD 83
Soil Map Unit Name: Victor	ria clay 0 to 1 percent slopes (VcA	4)		NWI Classif	fication: None	
Are climatic/hydrologic con	nditions on the site typical for	this time of v	rear? Yes 💿	— No ○ (If no	o, explain in Remarks.)	
	Soil , or Hydrology		icantly disturbed?		Circumstances" present?	Yes ● No ○
	Soil , or Hydrology		ally problematic?		plain any answers in Rer	
Are regetation	Join , or mydrology	nature	any problematic.	(II necueu, ex	plani any answers in Ker	na koj
SUMMARY OF FINDING	S – Attach site map show	ing sampling	g point locations, tr	ansects, impo	rtant features, etc.	
Hydrophytic Vegetation Pres	ent? Yes	No •	le the	Sampled Area		
Hydric Soil Present?	Yes 🔾	No •		n a Wetland?	Yes C	) No ●
Wetland Hydrology Present?	Yes 🔾	No •				
Remarks:						
Hydrophytic vegetation, hydr	ric soil, and wetland hydrology are	e not present. T	his is not a wetland.			
HADDOLOCA						
HYDROLOGY  Wetland Hydrology Indic	cators					
	num of one required; check a	all that annly)		Seconda	arv Indicators (Minimum	of 2 required)
Surface Water (A1)	. ,	quatic Fauna (B	12\		,	. ,
High Water Table (A2)		quauc гаипа (в larl Deposits (В1	•		Sparsely Vegetated Concave Drainage Patterns (B10)	Surface (B8)
Saturation (A3)		lydrogen Sulfide			Moss Trim Lines (B16)	
Water Marks (B1)		-	heres along Living Roots		Dry Season Water Table (C2	)
Sediment Deposits (B2)		resence of Redu			Crayfish Burrows (C8)	,
Drift Deposits (B3)			uction in Tilled Soils (C6)		Saturation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		hin Muck Surfac	• •		Geomorphic Position (D2)	magery (65)
Iron Deposits (B5)		ther (Explain in			Shallow Aquitard (D3)	
Inundation Visible on Ae		rtilei (Explaiii iii	Kemarksy		FAC-Neutral Test (D5)	
Water-Stained Leaves (E					Sphagnum moss (D8) (LRR <sup>-</sup>	т. Ш)
					opriagram moss (Bo) (Ent	
Field Observations: Surface Water Present?	Yes No	Depth (inches	e).			
Water Table Present?	Yes No •	Depth (inches				
Saturation Present?				Wetland	Hydrology Present? Ye	s O No 💿
(includes capillary fringe)	Yes O No •	Depth (inches	s):	TT CEIGITA	myarology r reseme.	
Describe Recorded Data (str	ream gauge, monitor well, aerial ¡	photos, previous	s inspections), if available	e:		
Remarks:						

	Dominant Species? Absolute Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:
ee Stratum (Plot Size : 30)		
		Total Number of Dominant Species Across All Strata:1 (B
		Species Across All Strata.
		Percent of Dominant Species That are OBL FACW or FAC: 0.0% (A/E
•	0	That are OBL, FACW, or FAC: 0.0% (A/t
•		Prevalence Index worksheet:
•	0	Total % Cover of: Multiply by:
•		OBL species $0 \times 1 = 0$
•	0	FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $\frac{6}{6} \times 3 = \frac{18}{1}$
olling or Sapling/Shrub Stratum (Plot Size : 30 )		FACU species $23 \times 4 = 92$
		UPL species $32 \times 5 = 160$
		Colum Totals: $2$ (A) $8$ (B)
		Prevalence Index = B/A= 4.000
	0	1767dichec 17dex 5/7
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is > 50%
		3 - Prevalence Index is ≤ 3.0¹
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
ub Stratum (Plot Size : 30 )		
		<sup>1</sup> Indicators of hydric soil and wetland
		hydrology must be present, unless disturbed or
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines,
•		approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.0 diff) of larger in diameter at breast height (BBH).
<b>b Stratum</b> (Plot Size : <u>30</u> )		Sapling - Woody plants, excluding woody vines,
Medicago lupulina		approximately 20 ft (6 m) or more in height and less
Cvnodon dactvlon		than 3 in. (7.6 cm) DBH.
Chaerophvllum tainturieri	4	
. Capsella bursa-pastoris	3	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
. Taraxacum officinale	3	than 3 in. DBH and greater than 3.20 it ( iiii) tail.
. Parietaria pensvlvanica	23.3%FACU	Shrub - Woody plants, excluding woody vines,
. Rumex crispus	23.3%FAC	approximately 3 to 20 ft (1 to 6 m) in height.
_Lamium amplexicaule	23.3%UPL	
		Herb - All herbaceous (non-woody) plants, including
	0	herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0.0%	one (1 m) in neight.
50% of Total Cover: 31 20% of Total Cover: 12	61 = Total Cover	Woody vine - All woody vines, regardless of height.
ody Vine Stratum (Plot Size : 30)		Trees, Till Till Till Till Till Till Till Til
		Hydrophytic
·		Vegetation Yes No •
	0	Present ?
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
		1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,						lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site:Bluewater Terminal SPM ProjectCity/County:San PatricioSampling Date:2/4/2019	
Applicant/Owner: Phillips 66 Pipeline, LLC State: TX Sampling Point: UPP1012	
Investigator(s): B. Bringhurst & A. Ostrowski Section, Township, Range: S N/A T N/A R N/A	
Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Flat Slope: 1 %	).6 °
Subregion (LRR):         LRR T         Lat: 27.915935         Long: -97.359785         Datum:         NAD	33
Soil Map Unit Name: Orelia fine sandy loam, 0 to 1 percent slopes (Or)  NWI Classification: None	
Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  No (If no, explain in Remarks.)	
	$\cap$
Are Vegetation ✓ , Soil ✓ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes (If needed, explain any answers in Remarks.)	
Are vegetation	
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   No   No   No   No   No   No   No	
Wetland Hydrology Present? Yes   No	
Remarks:	
Hydrophytic vegetation and hydric soil are not present. This is not a wetland.	
HYDROLOGY	
Wetland Hydrology Indicators:  Deliver of Andread (Minimum of the continued sheet all that canb)	
Primary Indicators (Minimum of one required; check all that apply)  Secondary Indicators (Minimum of 2 required)	
Surface Water (A1)  Aquatic Fauna (B13)  Sparsely Vegetated Concave Surface (B8)	
High Water Table (A2)  Marl Deposits (B15) (LRR U)  Drainage Patterns (B10)  ✓ Saturation (A3)  Hydrogen Sulfide Odor (C1)  Moss Trim Lines (B16)	
✓ Saturation (A3)	
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)	
Drift Deposits (B3)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)	
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)  Sphagnum moss (D8) (LRR T, U)	
Field Observations:  Surface Water Present? Yes No Depth (inches):	
Separ (miner)	
Cabunation December 2	
Saturation Present? (includes capillary fringe) Yes No Depth (inches): 0	
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	
Remarks:	

	Dominant Species? Absolute Rel.Strat. Indicator % Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:
ee Stratum (Plot Size : 30)	_	
1		Total Number of Dominant Species Across All Strata: (B
2		
3		Percent of Dominant Species That are OBL FACW, or FAC: 0.0% (A/I
•		That are OBL, FACW, or FAC:
•		Prevalence Index worksheet:
•		Total % Cover of: Multiply by:
•		OBL species $0 \times 1 = 0$
•	0	FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $8 \times 3 = 24$
<b>pling or Sapling/Shrub Stratum</b> (Plot Size : <u>30</u> )		FACU species $18 \times 4 = 72$
		UPL species $\underline{28}$ x 5 = $\underline{140}$
		Colum Totals: <u>61</u> (A) <u>270</u> (B
		Prevalence Index = B/A= 4.426
		Hydrophytic Vegetation Indicators:
	0	1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is > 50%
		3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<u>ub Stratum</u> (Plot Size : <u>30</u> ) .	0	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or
		Deficition of Manageria Charles
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
•		(7.6 cm) or larger in diameter at breast height (DBH).
	0 = Total Cover	
b Stratum (Plot Size : 30)		Sapling - Woody plants, excluding woody vines,
_ Medicago lupulina		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
. Capsella bursa-pastoris		than 3 m. (7.0 cm) DBH.
. Andropogon gerardii		Sapling/Shrub - Woody plants, excluding vines, less
. Lamium amplexicaule	3 <u>5.6%</u> _UPL	than 3 in. DBH and greater than 3.28 ft (1m) tall.
. Rumex crispus	3	
Lvsimachia arvensis		Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
		approximately a to 20 it (1 to 6 iii) iii noight
	0   0.0%	
		Herb - All herbaceous (non-woody) plants, including
	0	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
	0.0%	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
•	0 0.0% 0 0.0% 0 0.0%	herbaceous vines, regardless of size, and woody
	0 0.0% 0 0.0% 0 0.0%	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of Total Cover: 27 20% of Total Cover: 11	0 0.0% 0 0.0% 0 0.0%	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 54 = Total Cover	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0 0.0% 0.0% 0.0% 0 0.0%	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0 0.0% 0.0% 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
50% of Total Cover: 27 20% of Total Cover: 11  ody Vine Stratum (Plot Size : 30)	0 0.0% 0.0% 0.0% 0.0% 0 0.0% 0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0 0.0% 0 0.0% 0 0.0%	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic
50% of Total Cover: 27 20% of Total Cover: 11 cody Vine Stratum (Plot Size : 30)	0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
50% of Total Cover: 27 20% of Total Cover: 11	0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)						
Depth	Matrix		Redox Features			
(inches) 0 - 16	<b>Color (moist)</b> % 10YR 3/1 100	•		Location <sup>2</sup>	Texture	Remarks
	on, D=Depletion, RM=Redu		or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore		
Hydric Soil Indica	tors:				Indicators for Problema	atic Hydric Soils³:
5 cm Mucky Mine Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Mine Sandy Gleyed Ma Sandy Redox (SS Stripped Matrix (	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, U) A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 150A) eral (S1) (LRR O, S) atrix (S4)	Thin Dalta Commands In the process of the process o	ue Below Surface (S8) (ark Surface (S9) (LRR S Mucky Mineral (F1) (LR Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) (10) (LRR U) ed Ochric (F11) (MLRA anganese Masses (F12) c: Surface (F13) (LRR P, Ochric (F17) (MLRA 151) ed Vertic (F18) (MLRA 1 ont Floodplain Soils (F19) lous Bright Loamy Soils	, T, U) (R O)  151) (LRR O, P, T) T, U) ) 50A, 150B) O) (MLRA 149A)	Piedmont Floodplain: Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Ren  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):					lydric Soil Present? Ye	ns No •
Remarks:						

Project/Site: Bluewater Terminal SPM P	roject	City/County: San Patricio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips 66 Pipeline, L	_LC	State: TX	Sampling Point:	UPP1013
Investigator(s): B. Bringhurst & A. Ostr	rowski	Section, Town	nship, Range: S N/A T N/A	R N/A
Landform (hillslope, terrace, etc.): Fix	at	Local relief (concave, convex	, none): Flat	<b>Slope:</b> 1 % 0.6 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.916588	<b>Long:</b> -97.359453	Datum: NAD 83
Soil Map Unit Name: Orelia fine sandy k	oam, 0 to 1 percent slopes (Or)	NW	VI Classification: None	
Are climatic/hydrologic conditions on t	the site typical for this time of	year? Yes 💿 No 🔿	(If no, explain in Remarks.)	
		•	Normal Circumstances" present?	Yes ● No ○
		•	eeded, explain any answers in Rer	
Are regettation	, or rivarology nata	Tally problematic.	edea/ explain any answers in Rei	narksiy
SUMMARY OF FINDINGS — Attach	site map showing samplin	ng point locations, transect	s, important features, etc.	
Hydrophytic Vegetation Present?	Yes O No •	Is the Sample	ed Δrea	
Hydric Soil Present?	Yes O No 💿	within a Wetl		) No ●
Wetland Hydrology Present?	Yes No •			
Remarks:	intland hydrology are act asset	This is not a wetland		
Hydrophytic vegetation, hydric soil, and w	etiand hydrology are not present.	inis is not a wetland.		
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (Minimum of one	required; check all that apply	)	Secondary Indicators (Minimum	of 2 required)
Surface Water (A1)	Aquatic Fauna (		Sparsely Vegetated Concave	. ,
High Water Table (A2)	Marl Deposits (I	•	Drainage Patterns (B10)	rounded (50)
Saturation (A3)	Hydrogen Sulfic		Moss Trim Lines (B16)	
Water Marks (B1)		spheres along Living Roots (C3)	Dry Season Water Table (C2	2)
Sediment Deposits (B2)	Presence of Rec		Crayfish Burrows (C8)	,
Drift Deposits (B3)	Recent Iron Re	duction in Tilled Soils (C6)	Saturation Visible on Aerial I	Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa	ace (C7)	Geomorphic Position (D2)	2 / ( /
Iron Deposits (B5)	Other (Explain i	• •	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery		,	FAC-Neutral Test (D5)	
☐ Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR	T, U)
Field Observations:				
Surface Water Present? Yes	No   Depth (inch	es):		
Water Table Present? Yes	No • Depth (inch	nes):		
Saturation Present? (includes capillary fringe) Yes	No Depth (inch		Wetland Hydrology Present? Ye	es O No 💿
(includes capillary fringe)	No S Depart (men			
Describe Recorded Data (stream gauge,	monitor well, aerial photos, previo	us inspections), if available:		
Remarks:				
Remarks:				

	Daniel	
	Dominant Species? Absolute Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:0(A)
e Stratum (Plot Size : 30)	Cover	That are Obl., FACW, TO FAC: (A)
Melia azedarach	10 🗹50.0%UPL	Total Number of Dominant
Prunus persica		Species Across All Strata: (B
Celtis laevigata		Percent of Dominant Species
		That are OBL, FACW, or FAC: 0.0% (A/
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species $0 \times 1 = 0$
50% of Total Cover: 10 20% of Total Cover: 4	20 = <b>Total Cover</b>	FACW species $5 \times 2 = 10$
20 % of Total Cover. 10 20 % of Total Cover. 4		FAC species $85 \times 3 = 255$
ling or Sapling/Shrub Stratum (Plot Size : <u>30</u> )		FACU species $15 \times 4 = 60$
		UPL species $15 \times 5 = 75$
		Colum Totals: <u>54</u> (A) <u>236</u> (B
		Prevalence Index = B/A= 4.370
	0	
	0	Hydrophytic Vegetation Indicators:
	0	1 - Rapid Test for Hydrophytic Vegetation
	0	2 - Dominance Test is > 50%
	0.0%	3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
(Plot Size : 30 )		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines,
	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH)
<b>b Stratum</b> (Plot Size : <u>30</u> )	_	
Panicum virgatum	85 🗸85.0% _FAC	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Cvnodon dactvlon		than 3 in. (7.6 cm) DBH.
0.11	5 00/ 540/	,
		Sapling/Shrub - Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1m) tall.
		Shrub - Woody plants, excluding woody vines,
	0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
		Harb All borbassos (see 1991) Notice to 1991
	0	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
	0	plants, except woody vines, less than approximately
	0	3 ft (1 m) in height.
	0	
50% of Total Cover: 50 20% of Total Cover: 20	100 = Total Cover	Woody vine - All woody vines, regardless of height.
ody Vine Stratum (Plot Size : 30)	0.0%	
		Hydrophytic
	0	Vegetation Yes No • Present ?
	00.0%	
•		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u></u>	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 4/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	Reduced M	atrix, CS=Covered	or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	ntic Hydric Soils³:
5 cm Mucky Min  Muck Presence (  1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Matrix (Stripped Matrix (Stripped Matrix)	e (A4) (A5) (A6) (LRR P, T, U) eral (A7) (LRR P, T, (A8) (LRR U) (LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surfac Mucky Mi Gleyed M. d Matrix ( Dark Surfa d Dark Su Depressio 10) (LRR d Ochric anganese Surface ( chric (F17 d Vertic ( nt Floodp	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	. ,					H	lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site: Bluewater Terminal SPM Project	t	City/County: San Patric	io	Sampling Date:	2/4/2019
Applicant/Owner: Phillips 66 Pipeline, LLC		State:	TX Sam	npling Point:	UPP1014
Investigator(s): B. Bringhurst & A. Ostrowsk	i	Section	n, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace, etc.): Flat		Local relief (concave,	convex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.916485	Long: -97.	357258	Datum: NAD 83
Soil Map Unit Name: Banquete clay, 0 to 1 pe	ercent slones (Ec)	271310103	NWI Classification		
			_		
Are climatic/hydrologic conditions on the s	ite typical for this time of	year? Yes • 1	No (If no, exp	lain in Remarks.)	
Are Vegetation 🗸 , Soil 🗸 , or F	lydrology signi	ificantly disturbed?	Are "Normal Circun	nstances" present?	Yes 💿 No 🔾
Are Vegetation $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	lydrology natu	rally problematic?	(If needed, explain	any answers in Ren	narks.)
SUMMARY OF FINDINGS – Attach site	map showing samplir	ng point locations, tra	nnsects, important	features, etc.	
Hydrophytic Vegetation Present?	Yes O No •				
Hydric Soil Present?	Yes O No •		Sampled Area a Wetland?	Yes 🔘	No •
Wetland Hydrology Present?	Yes O No •	Within	a wellana:		
Remarks: Hydrophytic vegetation, hydric soil, and wetlan  HYDROLOGY	d hydrology are not present.	This is not a wetland.			
Wetland Hydrology Indicators:					
Primary Indicators (Minimum of one requ	ired: check all that apply	)	Secondary Inc	dicators (Minimum o	of 2 required)
Surface Water (A1)	Aquatic Fauna (	<del>-</del>		•	• •
High Water Table (A2)	Marl Deposits (I	· ·		ely Vegetated Concave ge Patterns (B10)	Surrace (B8)
Saturation (A3)	Hydrogen Sulfic			Frim Lines (B16)	
Water Marks (B1)		spheres along Living Roots (		eason Water Table (C2	1
Sediment Deposits (B2)	Presence of Rec			sh Burrows (C8)	!
Drift Deposits (B3)		duction in Tilled Soils (C6)		tion Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa	• •		orphic Position (D2)	nagery (es)
Iron Deposits (B5)	Other (Explain i	• •		w Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Guier (Explain)			eutral Test (D5)	
Water-Stained Leaves (B9)				num moss (D8) (LRR 1	-, U)
Field Observations:		T			
Surface Water Present? Yes No	Depth (inch	les):			
Water Table Present? Yes No	Depth (inch				
Saturation Present?			Wetland Hydro	ology Present? Ye	s O No 💿
(includes capillary fringe) Yes No	Depth (inch	les):	•	3,	
Describe Recorded Data (stream gauge, monit	cor well, aerial photos, previo	us inspections), if available:			

		Dit	
	Absolute % Cover	Dominant Species? Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:
ee Stratum (Plot Size : 30)		Cover Status	(A)
	0_	0.0%	Total Number of Dominant
	1	0.0%	Species Across All Strata: 4 (B
		0.0%	Percent of Dominant Species
		0.0%	That are OBL, FACW, or FAC:
	1	0.0%	Prevalence Index worksheet:
		0.0%	
	1		Total % Cover of: Multiply by:
		0.0%	OBL species 0 x 1 = 0
		0.0%	FACW species $0 \times 2 = 0$
0% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cover	FAC species $0 \times 3 = 0$
ing or Sapling/Shrub Stratum (Plot Size : 30 )	,		FACU species $2 \times 4 = 8$
	0	0.0%	UPL species $0 \times 5 = 0$
	0_	0.0%_	Colum Totals: $120$ (A) $400$ (B
	0	0.0%	Prevalence Index = B/A= 3.333
	0_	0.0%	5.555
	0_[	0.0%	Hydrophytic Vegetation Indicators:
	0_[	0.0%_	1 - Rapid Test for Hydrophytic Vegetation
		0.0%_	2 - Dominance Test is > 50%
-	1	0.0%	3 - Prevalence Index is ≤ 3.0¹
50% of Total Cover: 0 20% of Total Cover: 0		= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
ub Stratum (Plot Size : 30 )			
	0_	0.004	
	[	0.0%	¹ Indicators of hydric soil and wetland
		0.0%	hydrology must be present, unless disturbed or
		0.0%	
		0.0%	Definition of Vegetation Strata:
		0.0%	Tree - Woody plants, excluding woody vines,
	0	0.0%	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cover	(110 om) of larger in diameter at prodet neight (2211).
<b>b Stratum</b> (Plot Size : <u>30</u> )	,		Sapling - Woody plants, excluding woody vines,
Cvnodon dactvlon			approximately 20 ft (6 m) or more in height and less
	0	0.0%	than 3 in. (7.6 cm) DBH.
	0_	0.0%_	
	0_	0.0%	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
	0_	0.0%	than 3 in. DDIT and greater than 3.20 it ( iiii) tail.
	0_	0.0%	Shrub - Woody plants, excluding woody vines,
	0_[	0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
	0_[	0.0%_	
		0.0%	Herb - All herbaceous (non-woody) plants, including
	r	0.0%	herbaceous vines, regardless of size, and woody
	ſ	0.0%	plants, except woody vines, less than approximately 3 ft (1 m) in height.
		0.0%	3 it (1 iii) iii neight.
50% of Total Cover: 1 20% of Total Cover: 0.4	2	= Total Cover	Woody vine - All woody vines, regardless of height.
			Woody ville - All woody villes, regardless of fielght.
ody Vine Stratum (Plot Size : 30)	_ [		
	r	0.0%	
-	,	0.0%_	Hydrophytic
	1	0.0%_	Vegetation Yes No • Present ?
	0_	0.0%	FICSCIL:
50% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cover	

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)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix of Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( S	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer (If observed):  Type:  Depth (inches):					Hydric Soil Present? Yes ○ No ●			
Remarks:								

Project/Site: Bluewater Ter	rminal SPM Project	City/County: San Patrici	Sampling Date:	2/4/2019	
Applicant/Owner: Phillips	66 Pipeline, LLC	State:	TX Sampling Point:	UPP1015	
Investigator(s): B. Bringh	urst & A. Ostrowski	Section	, Township, Range: S N/A T N/A	R N/A	
 Landform (hillslope, terrace	e, etc.): Flat	Local relief (concave, c	onvex, none): Flat	Slope: 0 % 0.0 °	
Subregion (LRR): LRR T		Lat: 27.923171	Long: -97.35699	Datum: NAD 83	
	fine sandy loam, 0 to 1 percent slopes (Or)		NWI Classification: None	10.15.05	
	, ,				
Are climatic/hydrologic con	ditions on the site typical for this time	of year? Yes   N	o (If no, explain in Remarks.)		
Are Vegetation 🗸 , S	Soil 🗸 , or Hydrology 🗌 sig	gnificantly disturbed?	Are "Normal Circumstances" present?	Yes 💿 No 🔾	
Are Vegetation, \$	Soil 🗌 , or Hydrology 🔲 na	aturally problematic?	(If needed, explain any answers in Ren	narks.)	
SUMMARY OF FINDINGS	S — Attach site map showing samp	oling point locations, tra	nsects, important features, etc.		
Hydrophytic Vegetation Prese	ent? Yes No •				
Hydric Soil Present?	Yes O No •		Sampled Area a Wetland?	No •	
Wetland Hydrology Present?	Yes   No	William	, voltana.		
Remarks: Hydrophytic vegetation and h	nydric soil are not present. This is not a wetl	and.			
Wetland Hydrology Indica	atore:				
	num of one required: check all that app	nlv)	Secondary Indicators (Minimum	of 2 required)	
		• • •		. ,	
Surface Water (A1) High Water Table (A2)	Aquatic Faun	na (B13) :s (B15) (LRR U)	Sparsely Vegetated Concave	Surface (B8)	
✓ Saturation (A3)		Ilfide Odor (C1)	Drainage Patterns (B10)  Moss Trim Lines (B16)		
Water Marks (B1)		zospheres along Living Roots (0		١	
Sediment Deposits (B2)		Reduced Iron (C4)	Crayfish Burrows (C8)	)	
Drift Deposits (B3)		Reduction in Tilled Soils (C6)	Saturation Visible on Aerial I	mageny (CQ)	
Algal Mat or Crust (B4)	Thin Muck St	• •	Geomorphic Position (D2)	magery (C3)	
Iron Deposits (B5)		in in Remarks)	Shallow Aquitard (D3)		
Inundation Visible on Ae		iii iii Neiliaiks)	FAC-Neutral Test (D5)		
Water-Stained Leaves (B	• , , ,		Sphagnum moss (D8) (LRR 7	r. u)	
			Springfram mess (BO) (Erax		
Field Observations: Surface Water Present?	Yes No Depth (in				
Water Table Present?		· —			
Saturation Present?		ncnes):	Wetland Hydrology Present? Ye	s • No O	
(includes capillary fringe)	Yes   No   Depth (ir	nches): 4	wedand nydrology Fresent: Te		
Describe Recorded Data (str	ream gauge, monitor well, aerial photos, pre	vious inspections), if available:			

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 . Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0\_

0 \_

0

0 0

0 0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

0

0

0 0 Rel.Strat. Indicator

0.0%\_

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0%

0.0%

0.0%

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%

0.0% 0.0% 0.0%\_ 0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%\_

0.0%

0.0%\_ 0.0%

0.0%

= Total Cover

= Total Cover

0.0%

0.0%

Status

Sampling Point: UPP1015
Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A)
Total Number of Dominant Species Across All Strata: (B
Percent of Dominant Species That are OBL, FACW, or FAC:  0.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species $0 \times 1 = 0$
FACW species $0 \times 2 = 0$
FAC species $0 \times 3 = 0$
FACU species $\underline{2}$ x 4 = $\underline{8}$
UPL species $0 \times 5 = 0$
Colum Totals: $2$ (A) $8$ (B)
Prevalence Index = B/A= 4.000
Hydrophytic Vegetation Indicators:
2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or
Definition of Vegetation Strata:
Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Woody vine - All woody vines, regardless of height.
Hydrophytic Vegetation Yes No • Present ?

Remarks: (	If observed,	list morphological	adaptations	below)

Profile Description	n: (Describe to th	ne depth n	eeded to docui	nent the	indicator or	confirm the abso	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, T 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,						lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site: Bluewater Te	rminal SPM Project	City/County: San Patricio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips	66 Pipeline, LLC	State: TX	Sampling Point:	UPP1016
Investigator(s): B. Bringh	urst & A. Ostrowski	Section, Townsh	nip, Range: S N/A T N/A	R N/A
Landform (hillslope, terrace	e, etc.): Flat	Local relief (concave, convex, n	ione): Flat	Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.923649	Long: -97.345953	Datum: NAD 83
	ia clay 0 to 1 percent slopes (VcA)		Classification: None	
_	, , , , ,			
Are climatic/hydrologic con	ditions on the site typical for this time of	fyear? Yes • No	(If no, explain in Remarks.)	
Are Vegetation 🗸 , S	Soil 🗸 , or Hydrology 🗌 sign	ificantly disturbed? Are "No	rmal Circumstances" present?	Yes   No
Are Vegetation , S	Soil 🗌 , or Hydrology 🔲 natu	rally problematic? (If need	led, explain any answers in Rer	marks.)
SUMMARY OF FINDINGS	S — Attach site map showing sampli	ng point locations, transects,	important features, etc.	
Hydrophytic Vegetation Prese	ent? Yes No •	la tha Camalad	A	
Hydric Soil Present?	Yes O No •	Is the Sampled within a Wetlan		No 💿
Wetland Hydrology Present?	Yes   No			
Hydrophytic vegetation and h	nydric soil are not present. This is not a wetlan	d.		
Wetland Hydrology Indica	ators:			
	num of one required; check all that apply	/) Se	econdary Indicators (Minimum	of 2 reauired)
Surface Water (A1)	Aquatic Fauna	<del>-</del>	Sparsely Vegetated Concave	. ,
High Water Table (A2)	Marl Deposits (		Drainage Patterns (B10)	Surface (DO)
✓ Saturation (A3)	Hydrogen Sulfic		Moss Trim Lines (B16)	
Water Marks (B1)		spheres along Living Roots (C3)	Dry Season Water Table (C2	)
Sediment Deposits (B2)		educed Iron (C4)	Crayfish Burrows (C8)	,
Drift Deposits (B3)	Recent Iron Re	eduction in Tilled Soils (C6)	Saturation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Surf	face (C7)	Geomorphic Position (D2)	
Iron Deposits (B5)	Other (Explain	in Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Ae	rial Imagery (B7)		FAC-Neutral Test (D5)	
Water-Stained Leaves (B	9)		Sphagnum moss (D8) (LRR	T, U)
Field Observations:				
Surface Water Present?	Yes No • Depth (inch	nes):		
Water Table Present?	Yes No Depth (inch	· ——		
Saturation Present? (includes capillary fringe)	Yes   No   Depth (inch		etland Hydrology Present? Ye	s • No O
. , , , ,	ream gauge, monitor well, aerial photos, previo	ous inspections), if available:		

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 . Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0\_

0 \_

0

0\_\_\_ 0

0 0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

0

0

0 0 Rel.Strat. Indicator

0.0%\_

0.0%\_

0.0% 0.0%

0.0% 0.0%\_

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%\_

0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0%

0.0%

0.0%

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%\_

0.0% 0.0%\_ 0.0%\_ \_ 0.0%\_

0.0%

0.0%\_ 0.0%

0.0%\_

0.0%

0.0%

0.0% 0.0%

0.0%

= Total Cover

= Total Cover

0.0%

0.0%

Status

Dominance Test w	orksheet:				
Number of Dominant					
That are OBL, FACW,	, ro FAC:		_	0	(A)
Total Number of Don Species Across All St				1	(В
Percent of Dominant				0.0%	(A/B)
That are OBL, FACW	, or FAC:		_	0.0 70	(,,,,,
Prevalence Index					
Total % Cover			oly by		_
OBL species	0	x 1		0	
FACW species	0	x 2		0	
FAC species FACU species	0	x 3 x 4		8	
UPL species	0	x 4		0	
Colum Totals:	2	(A)		8	(B)
D 1 .		0.5			(-)
Prevalence In	dex = B/A=			4.000	
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy	e Test is > 5 • Index is ≤ ydrophytic \ ydric soil an	0% 3.0¹ Vegeta	ation	¹ (Explaiı	1)
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy	e Test is > 5 Index is ≤ Index is	0% 3.0¹ Vegeta d wetl	ation and distu	¹ (Explaiı	1)
2 - Dominance 3 - Prevalence Problematic H	e Test is > 5 e Index is ≤ e ydrophytic  ydric soil and e present, u  egetation ents, excludi of (6 m) or	0% 3.0¹ Vegeta d weti unless Strat ing wo	ation and distu	¹ (Explainurbed or vines, ight and i	3 in.
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V  Tree - Woody pla approximately 20	e Test is > 5 e Index is ≤ e Index is ≤ eydrophytic  eydric soil and ee present, the egetation ents, excluding the form of the indiamete  plants, excluding the indiamete  plants, excluding the indiamete  plants, excluding the indiamete	0% 3.0¹ Vegeta d wetl inless Strat ing wo more r at br uding	a: oody in heeast	• (Explain urbed or vines, ight and a height (E	3 in. DBH).
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20	e Test is > 5 e Index is ≤ e Index is ≤ eydrophytic eydric soil and the present, the egetation ents, excludi of (6 m) or r in diamete plants, excl of (6 m) or n) DBH.  Voody plant	00% 3.01 Veget: dd wetl unless Strat ing wo more r at br uding more	land distuate a: oody in he east woo in he	vines, ight and theight (Edy vines, ight and stand)	3 in. DBH). Iess
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm  Sapling/Shrub - V	e Test is > 5 e Index is ≤ e Index is ≤ e ydrophytic e ydric soil and be present, to e egetation ents, excluding the first (6 m) or in diamete e plants, excluding the first (6 m) or in DBH.  Voody plant and greater the lants, excluding the first	00% 3.01 Veget: dd wetl unless Strat ing wo more r at br uding more ss, exc nan 3.	a: oody in he east woo in he cludir 28 ft	vines, ight and height (Edy vines, ight and and and and and and and the control of the control o	3 in. DBH). Iess
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger Sapling - Woody approximately 20 than 3 in. (7.6 cm Sapling/Shrub - V than 3 in. DBH ar Shrub - Woody p	e Test is > 5 e Index is ≤ e Index is ≤ e ydrophytic dric soil and the present, the present, the present, the present of the p	0% 3.0¹ Vegeti d wetl unless  Strat ing wo more r at br uding more ss, exc nan 3. dding w 6 m) voody s of si	a: oody in hee sludir 428 ft voody in he ) plar	vines, ight and a light and a light.	3 in. DBH). less less

Remarks: (	If observed.	list morphological	adaptations below).
remains.	ii observed,	not morphological	adaptations below)

Profile Description	n: (Describe to th	ne depth n	eeded to docui	nent the	indicator or	confirm the abso	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, T 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,						lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site: Bluewater Te	minal SPM Project		City/County: San Patr	icio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips	66 Pipeline, LLC		State	e: TX Sar	npling Point:	UPP1017
Investigator(s): B. Bringh	ırst & A. Ostrowski		Section	on, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace	, etc.): Flat		Local relief (concave	, convex, none): Flat		<b>Slope:</b> 1 % 0.6 °
Subregion (LRR): LRR T			<b>Lat:</b> 27.923561	Long: -97	.343774	Datum: NAD 83
Soil Map Unit Name: Victor	ia clay 0 to 1 perce	nt slones (VcA)		NWI Classificati		
_	· ·	,		_		
Are climatic/hydrologic con	ditions on the sit	e typical for this time of	year? Yes ●	No (If no, exp	olain in Remarks.)	
Are Vegetation , S	ioil, or H	ydrology signi	ficantly disturbed?	Are "Normal Circur	mstances" present?	Yes 💿 No 🔾
Are Vegetation , S	Soil, or Hy	ydrology natu	rally problematic?	(If needed, explain	any answers in Rer	marks.)
SUMMARY OF FINDINGS	6 – Attach site	map showing samplir	ng point locations, ti	ransects, importan	t features, etc.	
Hydrophytic Vegetation Prese	ent?	Yes O No •	lo the	Compled Area		
Hydric Soil Present?		Yes O No 💿		e Sampled Area n a Wetland?	Yes C	No 💿
Wetland Hydrology Present?		Yes   No				
Hydric soil is not present. Thi	s is not a wetland.					
Wetland Hydrology Indica	ators:					
Primary Indicators (Minim		red: check all that apply	)	Secondary In	dicators (Minimum	of 2 required)
Surface Water (A1)	•	Aquatic Fauna (		Sparse	ely Vegetated Concave	Surface (B8)
High Water Table (A2)		Marl Deposits (E	•		age Patterns (B10)	ourrace (Bo)
✓ Saturation (A3)		Hydrogen Sulfid			Trim Lines (B16)	
Water Marks (B1)		Oxidized Rhizos	pheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)		Presence of Rec	luced Iron (C4)		sh Burrows (C8)	,
Drift Deposits (B3)		Recent Iron Rec	duction in Tilled Soils (C6)	Satura	ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		Thin Muck Surfa	ace (C7)	Geom	orphic Position (D2)	
Iron Deposits (B5)		Other (Explain i	n Remarks)	Shallo	w Aquitard (D3)	
Inundation Visible on Ae	rial Imagery (B7)			FAC-N	leutral Test (D5)	
Water-Stained Leaves (B	9)			Sphag	num moss (D8) (LRR <sup>-</sup>	Γ, U)
Field Observations:						
Surface Water Present?	Yes O No	Depth (inches)	es):			
Water Table Present?	Yes O No	Depth (inche)	es):			
Saturation Present? (includes capillary fringe)	Yes • No	Depth (inch		Wetland Hydr	ology Present? Ye	s • No O
Describe Recorded Data (str	eam gauge, monito	or well, aerial photos, previo	us inspections), if available	e:		

			Dominant	Dominance Test worksheet:
		Absolute	Species?	Number of Dominant Species
		% Cover	Rel.Strat. Status	That are OBL, FACW, ro FAC:
Tree Stratum	(Plot Size : <u>30</u> )			
1		0_[	0.0%_	Total Number of Dominant
2.		Г	0.0%	Species Across All Strata:1 (B
			0.0%	Percent of Dominant Species
4.			0.0%	That are OBL, FACW, or FAC: 0.0% (A/B)
5			0.0%	Prevalence Index worksheet:
6			0.0%	
7		T T	0.0%	Total % Cover of: Multiply by:
			0.0%	OBL species $0 \times 1 = 0$
8 50% of Total Cover: 0		0		FACW species $0 \times 2 = 0$
30% of Total Cover. 0	20% of Total Cover. 0		= Total Cover	FAC species $80 \times 3 = 240$
Sapling or Sapling/Shrub S	Stratum (Plot Size : 30 )	г		FACU species $15 \times 4 = 60$
1				UPL species $5 \times 5 = 25$
2		0		Colum Totals: $2$ (A) $8$ (B)
3		0	0.0%_	Prevalence Index = B/A= 4.000
4		0	0.0%_	
5		0	0.0%_	Hydrophytic Vegetation Indicators:
6		0	0.0%_	1 - Rapid Test for Hydrophytic Vegetation
7		0	0.0%_	2 - Dominance Test is > 50%
8		0	0.0%_	3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Shrub Stratum	(Plot Size : <u>30</u> )			
1	,	0_	0.0%_	
2			0.0%	Indicators of hydric soil and wetland     hydrology must be present, unless disturbed or
			0.0%	ilydrology must be present, unless disturbed of
3				Definition of Variation Charles
4			0.0%	Definition of Vegetation Strata:
5				Tree - Woody plants, excluding woody vines,
6			0.0%	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	(7.0 diff) of larger in diameter at broast height (DBH).
Herb Stratum	(Plot Size : <u>30</u> )			Sapling - Woody plants, excluding woody vines,
1 . Panicum virgatum		70_	✓ 70.0% FAC	approximately 20 ft (6 m) or more in height and less
2 . Taraxacum officinale		10_	10.0%FACU	than 3 in. (7.6 cm) DBH.
3 . Rumex crispus		5_	5.0%FAC	
4 . Dichanthium aristatum		5_	5.0%FACU	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5 . Bothriochloa ischaemum	n var. songarica	5_	5.0%UPL	than 3 in. DBH and greater than 3.26 it (1111) tall.
6 . Xanthium strumarium		5_	5.0%FAC	Shrub - Woody plants, excluding woody vines,
7		0_[	0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
8		0_[	0.0%	
9.		r	0.0%	Herb - All herbaceous (non-woody) plants, including
10.		r	0.0%	herbaceous vines, regardless of size, and woody
11.			0.0%	plants, except woody vines, less than approximately 3 ft (1 m) in height.
12.		0	0.0%	3 tt (1 m) in neight.
50% of Total Cover: 50		100	= Total Cover	Woody vine - All woody vines, regardless of height.
	(71 ) (71 )			Woody ville - All woody villes, regardless of height.
Woody Vine Stratum	(Plot Size : <u>30</u> )	0	0.00/	
1				
2			0.0%	
			0.0%	Hydrophytic Vegetation Yes No
4			0.0%	Vegetation Yes No ● Present ?
			0.0%_	
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	
emarks: (If observed, list morp	phological adaptations below	).		•
,,				

Sampling Point:

UPP1017

Depth	Mati	rix		Redox	Features			
(inches)	Color (mois		Color (moist)	%	Type <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 4/	1 100					Clay Loam	
aa. C-Cancantra	tion D-Donlotion	PM-Poducod	l Matrix, CS=Covered	or Coato	d Sand Grains	<sup>2</sup> Location: PL=Pore	Lining M-Matrix	
ric Soil Indic	•	MW-Neduced	riviatrix, C3-COVEREU	or coated	a Sanu Granis.	Location. FE-Fore	Indicators for Problema	tic Hydric Soils³:
Histosol (A1)	ators.		Doharal	uo Polov	v Curtaco (CO)	(IDD C T II)		
Histic Epipedon	n (A2)				v Surface (S8) ( ace (S9) (LRR S		1 cm Muck (A9) (LRR 0 2 cm Muck (A10) (LRR	
Black Histic (A3	3)				Ineral (F1) (LR			(outside MLRA 150A,B)
Hydrogen Sulfic	de (A4)				Matrix (F2)	ŕ	_	oils (F19) (LRR P, S, T)
Stratified Layer	rs (A5)			ed Matrix				my Soils (F20) (MLRA 153B)
Organic Bodies	(A6) (LRR P, T, l	J)	Redox	Dark Sui	face (F6)		Red Parent Material (T	
5 cm Mucky Mi	ineral (A7) (LRR P	P, T, U)	Deplete	ed Dark :	Surface (F7)		Very Shallow Dark Sur	face (TF12)
Muck Presence	e (A8) (LRR U)		Redox	Depress	ions (F8)		Other (Explain in Rema	
1 cm Muck (A9	) (LRR P, T)		Marl (F	10) (LRF	RU)		` '	,
Depleted Below	v Dark Surface (A	11)	Deplete	ed Ochri	c (F11) (MLRA	151)		
Thick Dark Surf	face (A12)		Iron-M	anganes	e Masses (F12)	(LRR O, P, T)		
Coast Prairie Re	edox (A16) (MLRA	A 150A)	Umbrio	Surface	(F13) (LRR P,	T, U)	27	
Sandy Muck Mi	ineral (S1) (LRR C	), S)	Delta C	Ochric (F	17) (MLRA 151)	)		of hydrophytic vegetation and ydrology must be present,
Sandy Gleyed N	Matrix (S4)		Reduce	ed Vertic	(F18) (MLRA 1	50A, 150B)	unless o	listurbed or problematic.
Sandy Redox (S	S5)		Piedmo	ont Flood	lplain Soils (F19	) (MLRA 149A)		
Stripped Matrix			Anoma	lous Brig	ht Loamy Soils	(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S	S7) (LRR P, S, T,	U)						
trictive Laver	r (If observed):							
Type:	(11 00001 100)1					H	Hydric Soil Present? Yes	No •
Depth (inches):								
narks:								

City/County: San Patricio

Sampling Date:

2/4/2019

Applicant/Owner: Phillips 66 Pipeline, LLC	St	ate: TX	Sampling Point:	UPP1018
Investigator(s): B. Bringhurst & A. Ostrowski	Sec	tion, Township, R	ange: S N/A T	N/A <b>R</b> N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (conca	ve, convex, none):	Flat	Slope: 0 % 0.0 °
Subregion (LRR): LRR T	 <b>Lat:</b> 27.931203	Lon	g: -97.343693	Datum: NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)		NWI Class	ification: None	
Are climatic/hydrologic conditions on the site typical for this	s time of year? Yes •	 No	o, explain in Remarks	s )
	_		-	
	significantly disturbed?		Circumstances" prese	
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, e	explain any answers in	1 Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations	transects, impo	ortant features, etc	C.
Hydrophytic Vegetation Present? Yes   No	O .			
Hydric Soil Present? Yes No		the Sampled Area :hin a Wetland?	Ye.	s O No 💿
Wetland Hydrology Present? Yes • No	0	anna vvolana.		
Remarks: Hydrophytic vegetation and hydric soil are not present. This is not	a wetland.			
HYDROLOGY				
Wetland Hydrology Indicators:	aat annly)	Cocond	lan (Indicators (Minim	our of 2 required)
Primary Indicators (Minimum of one required; check all the		Second	lary Indicators (Minim	
	tic Fauna (B13) Deposits (B15) (LRR U)		Sparsely Vegetated Cor	• •
	ogen Sulfide Odor (C1)		Drainage Patterns (B10 Moss Trim Lines (B16)	·)
	zed Rhizospheres along Living Ro	ots (C3)	Dry Season Water Table	ne (C2)
	nce of Reduced Iron (C4)		Crayfish Burrows (C8)	C (C2)
	nt Iron Reduction in Tilled Soils (	26)	Saturation Visible on Ae	erial Imagery (C9)
Algal Mat or Crust (B4)	Muck Surface (C7)		Geomorphic Position (D	
	(Explain in Remarks)		Shallow Aquitard (D3)	,
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum moss (D8) (	[LRR T, U)
Field Observations:				
	epth (inches):			
	epth (inches):			
Saturation Present? (includes capillary fringe) Yes   No   D	epth (inches): 0	Wetland	d Hydrology Present?	Yes   No
Describe Recorded Data (stream gauge, monitor well, aerial phot	os, previous inspections), if avail	able:		
Remarks:				

**Project/Site:** Bluewater Terminal SPM Project

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 . Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30)

50% of Total Cover: 0 20% of Total Cover: 0

0.0% 0.0%

0.0%

0.0% 0.0%

\_\_\_\_0.0%\_

2 🗸 \_100.0%\_

= Total Cov

0.0%

0.0% 0.0%

0

0

0 0

0

0

0 0

0

0 0

0

0

0

0

0

0

0

0

0

0

0

0.0%\_ 0.0% 0.0% 0.0% 0.0%

0.0%

0

0

**Absolute** 

% Cover

minant	Dominance Test worksheet:
ecies? Indicator	Number of Dominant Species
LStrat. Indicator Cover Status	That are OBL, FACW, ro FAC:1(A)
0.0%_	Total Number of Dominant Species Across All Strata: 1 (B
0.0%	Species Across All Strata: (B
0.0%	Percent of Dominant Species
0.0%	That are OBL, FACW, or FAC:
0.0%	Prevalence Index worksheet:
0.0%	
0.0%	
0.0%	OBL species $0 \times 1 = 0$
Total Cover	FACW species $0 \times 2 = 0$
Total Cover	FAC species $0 \times 3 = 0$
	FACU species $2 \times 4 = 8$
0.0%_	UPL species $0 \times 5 = 0$
0.0%	Colum Totals: $2$ (A) $8$ (B)
0.0%_	Prevalence Index = B/A= 4.000
0.0%_	
0.0%_	Hydrophytic Vegetation Indicators:
0.0%	1 - Rapid Test for Hydrophytic Vegetation
0.0%	✓ 2 - Dominance Test is > 50%
0.0%	3 - Prevalence Index is ≤ 3.0¹
Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
0.0%_	
0.0%	Indicators of hydric soil and wetland     hydrology must be present, unless disturbed or
0.0%	injuriology must be presently unless distances of
0.0%	Definition of Vegetation Strate.
0.0%	Definition of Vegetation Strata:
	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
	(7.6 cm) or larger in diameter at breast height (DBH).
Total Cover	(7.5 cm) of larger in diameter at breast neight (5511).
	Sapling - Woody plants, excluding woody vines,
100.0% FACU	approximately 20 ft (6 m) or more in height and less
0.0%	than 3 in. (7.6 cm) DBH.
0.0%	0.45.406.4.30.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.
0.0%	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
0.0%	man אוו. ביום and greater than 3.20 it ( וווו) tall.
0.0%	Shrub - Woody plants, excluding woody vines,
0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
0.0%	
0.0%	Herb - All herbaceous (non-woody) plants, including
0.0%	herbaceous vines, regardless of size, and woody
0.0%	plants, except woody vines, less than approximately
	3 ft (1 m) in height.
0.0%	
Total Cover	Woody vine - All woody vines, regardless of height.
0.00/	
0.0%	
0.0%	
0.0%_	Hydrophytic
0.0%	Vegetation Yes No Present?
0.0%	riesent :
Total Cover	

Remarks: (	If observed	list mor	nhological	adaptations	helow)
zemanz. (	ii observeu,	list IIIUI	priological	auaptations	Delow).

Profile Description	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	-Reduced M	atrix, CS=Covered	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	itic Hydric Soils³:
5 cm Mucky Min Muck Presence ( 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Rec Sandy Muck Min Sandy Gleyed Matrix (Stripped M	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, T 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,						lydric Soil Present? Ye	s ○ No ●
Remarks:								

Project/Site: Bluewater Te	rminal SPM Project	City/County: San Patrio	cio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips	66 Pipeline, LLC	State	TX Samp	ling Point:	UPP1019
Investigator(s): B. Bringh	urst & A. Ostrowski	Section	n, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace	e, etc.): Flat	Local relief (concave,	convex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T	-	<b>Lat:</b> 27.933161	Long: -97.3	43402	Datum: NAD 83
	ia clay 0 to 1 percent slopes (VcA)		NWI Classification		
_			_		
Are climatic/hydrologic con	ditions on the site typical for this time	e of year? Yes (●) I	No (If no, expla	in in Remarks.)	
Are Vegetation 🗸 , S	Soil 🗸 , or Hydrology 🗌 si	ignificantly disturbed?	Are "Normal Circums	tances" present?	Yes 💿 No 🔾
Are Vegetation , S	Soil . , or Hydrology na	aturally problematic?	(If needed, explain a	ny answers in Ren	narks.)
SUMMARY OF FINDINGS	S – Attach site map showing samp	pling point locations, tra	ansects, important f	eatures, etc.	
Hydrophytic Vegetation Prese	ent? Yes No •	la tha	Carralad Assa		
Hydric Soil Present?	Yes O No •		Sampled Area a Wetland?	Yes 🔘	No 💿
Wetland Hydrology Present?	Yes   No				
Hydrophytic vegetation and h	nydric soil are not present. This is not a wet	land.			
Wetland Hydrology Indica	ators:				
	num of one required: check all that ap	(vla	Secondary Indi	cators (Minimum o	of 2 required)
Surface Water (A1)	Aquatic Faur			Vegetated Concave	. ,
High Water Table (A2)		ts (B15) (LRR U)		e Patterns (B10)	Surface (Bo)
✓ Saturation (A3)		ulfide Odor (C1)		im Lines (B16)	
Water Marks (B1)		izospheres along Living Roots (		son Water Table (C2)	
Sediment Deposits (B2)	Presence of	Reduced Iron (C4)		Burrows (C8)	
Drift Deposits (B3)	Recent Iron	Reduction in Tilled Soils (C6)		on Visible on Aerial Ir	magery (C9)
Algal Mat or Crust (B4)	Thin Muck S	Surface (C7)	Geomor	phic Position (D2)	
Iron Deposits (B5)	Other (Expla	ain in Remarks)	Shallow	Aquitard (D3)	
Inundation Visible on Ae	rial Imagery (B7)		FAC-Neu	ıtral Test (D5)	
Water-Stained Leaves (B	9)		Sphagnu	ım moss (D8) (LRR T	, U)
Field Observations:					
Surface Water Present?	Yes No Depth (ii	nches):			
Water Table Present?	Yes No Depth (ii	nches):			
Saturation Present? (includes capillary fringe)	Yes   No   Depth (in		Wetland Hydrol	ogy Present? Yes	No O
Describe Recorded Data (str	eam gauge, monitor well, aerial photos, pre	evious inspections), if available			

	Dominant Species? Absolute Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A
Stratum (Plot Size : 30)	Cover	That are OBL, FACW, TO FAC: (A
	0	Total Number of Dominant Species Across All Strata:1 (B
		Species Across All Strata: (B
		Percent of Dominant Species
		That are OBL, FACW, or FAC: 0.0% (A
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
		OBL species $0 \times 1 = 0$
		FACW species $0 \times 2 = 0$
0% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FACW species $0 \times 2 = 0$ FAC species $0 \times 3 = 0$
ing or Sapling/Shrub Stratum (Plot Size : 30 )	0.00	FACU species $2 \times 4 = 8$ UPL species $0 \times 5 = 0$
		Colum Totals: $2$ (A) $8$ (
		Prevalence Index = B/A= 4.000
		Hydrophytic Vegetation Indicators:
	_	
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is > 50%
		3 - Prevalence Index is ≤ 3.01
0% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
b Stratum (Plot Size : 30)	0.0%	
		Indicators of hydric soil and wetland     hydrology must be present, unless disturbed or
		nydrology must be present, unless disturbed or
		B (1.11 (11 (1.11
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines,
	0.0%	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH
60% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(10 cm) of larger in diameter at predet height (22)
Stratum (Plot Size : 30)		Sapling - Woody plants, excluding woody vines,
_Cvnodon dactvlon		approximately 20 ft (6 m) or more in height and less
		than 3 in. (7.6 cm) DBH.
		Ocalica (Obs. b. Wester also to a set also see a language
	0	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
		than 5 m. DBH and greater than 5.20 ft (mi) tail.
	0	Shrub - Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 6 m) in height.
		Herb - All herbaceous (non-woody) plants, including
		herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately 3 ft (1 m) in height.
		3 it (1 iii) iii neight.
60% of Total Cover: 1 20% of Total Cover: 0.4	2 = Total Cover	Woody vine - All woody vines, regardless of height.
		woody vine - All woody vines, regardless of fleight.
edy Vine Stratum (Plot Size : 30)	0.00	
		Hydrophytic
		Vegetation Yes No • Present ?
	0	· · · · · · · · · · · · · · · · · · ·
0% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	

Profile Description	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
<sup>†</sup> Type: C=Concentratio	on, D=Depletion, RM=	-Reduced M	latrix, CS=Covered (	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	tic Hydric Soils³:
5 cm Mucky Min  Muck Presence ( 1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Ma  Sandy Redox (St  Stripped Matrix (	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	ace (F6) urface (F7) urs (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Ren  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,					H	lydric Soil Present? Ye	s No •
Remarks:								

Project/Site: Bluewater Terr	minal SPM Project	City/County: San Patricio	)	Sampling Date:	2/5/2019
Applicant/Owner: Phillips 6	66 Pipeline, LLC	State:	TX Sam	pling Point:	UPP1020
Investigator(s): B. Bringhu	rst & A. Ostrowski	Section,	Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace,	etc.): Flat	Local relief (concave, co	onvex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.938319	<b>Long:</b> -97.	340405	Datum: NAD 83
Soil Map Unit Name: Victoria	a clay, depressional (Vd)		NWI Classification	on: None	
Are climatic/hydrologic cond	ditions on the site typical for this time of	year? Yes 💿 No	= o (If no. expl	lain in Remarks.)	
Are Vegetation 🗸 , Se		•	Are "Normal Circum	-	Yes ● No ○
Are Vegetation , Se		•	(If needed, explain	-	
Are vegetation, 50	on , or rivatology matur	rally problematic:	(11 ficeded, explain	any answers in Ken	iai ks.)
SUMMARY OF FINDINGS	- Attach site map showing samplin	ng point locations, tran	nsects, important	features, etc.	
Hydrophytic Vegetation Preser	nt? Yes No •	Is the S	sampled Area		
Hydric Soil Present?	Yes O No •		Wetland?	Yes C	No 💿
Wetland Hydrology Present?	Yes   No				
Remarks:					
Hydrophytic vegetation and hy	ydric soil are not present. This is not a wetland	<b>.</b>			
					-
HYDROLOGY					
Wetland Hydrology Indica					
,	um of one required; check all that apply)		Secondary Inc	dicators (Minimum d	of 2 required)
Surface Water (A1)	Aquatic Fauna (	•		ly Vegetated Concave	Surface (B8)
High Water Table (A2)	Marl Deposits (E			ge Patterns (B10)	
✓ Saturation (A3)	Hydrogen Sulfid			Γrim Lines (B16)	
Water Marks (B1)		pheres along Living Roots (C		ason Water Table (C2	)
Sediment Deposits (B2)	Presence of Red		Crayfis	sh Burrows (C8)	
Drift Deposits (B3)	Recent Iron Rec	duction in Tilled Soils (C6)	Satura	tion Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa	ace (C7)	Geomo	orphic Position (D2)	
Iron Deposits (B5)	Other (Explain i	n Remarks)	Shallov	w Aquitard (D3)	
Inundation Visible on Aer	ial Imagery (B7)		FAC-Ne	eutral Test (D5)	
Water-Stained Leaves (B9	9)		Sphagi	num moss (D8) (LRR 1	ī, U)
Field Observations:					
Surface Water Present?	Yes No Depth (inche	es):			
Water Table Present?	Yes No Depth (inche	es):			
Saturation Present? (includes capillary fringe)	Yes   No Depth (inche	es): 0	Wetland Hydro	ology Present? Ye	s • No
(includes capillary finige)					
Describe Recorded Data (stre	eam gauge, monitor well, aerial photos, previou	us inspections), if available:			
Remarks:					
Remarks:					

Total Number of Dominant   Species Across Al Stratus   1		Absolute % Cover C	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A)
1			
3			
1			Percent of Dominant Species
Prevalence Index worksheet:   Total Scover of:   Multiply by:   Os.   Sepecies   Os.   X   1 =   Os.   Os.			
Column			Dravalance Inday worksheet:
7			
8. 50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover  Sapling or Sapling / Shrub Stratum (Mict Size : 30 )  1. 0 0,0%			
FAC species   0   X 3   0   0   0   0   0   0   0   0   0	8.		
FACU species   2   x 4   =   8	50% of Total Cover: 0 20% of Total Cover: 0		FAC species $0 \times 3 = 0$
1	Sapling or Sapling/Shrub Stratum (Plot Size : 30 )	<del></del>	
3 .	1	0	
1.     0   0.0%	2	0	Colum Totals: $2$ (A) $8$ (B)
1	3		Prevalence Index = B/A= 4 000
6	4		
7 · 8 · 0			Hydrophytic Vegetation Indicators:
8 - Solve of Total Cover: 0 20% of Total Cover: 0 0 0 = Total Cover  1			1 - Rapid Test for Hydrophytic Vegetation
Problematic Hydrophytic Vegetation (Explain)			2 - Dominance Test is > 50%
Shrub Stratum		0	3 - Prevalence Index is ≤ 3.01
1.	50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6	1	0 0.0% 0 0.0% 0 0.0%	hydrology must be present, unless disturbed or
### Stratum	5		Tree - Woody plants, excluding woody vines,
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.	6	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
1 . Cvnodon dactvlon 2 .	50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).
4	1 . Cvnodon dactvlon	0	approximately 20 ft (6 m) or more in height and less
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximated 3 ft (1 m) in height.  Woody Vine Stratum  (Plot Size : 30)  O 0.0%  Woody Vine Stratum  (Plot Size : 30)	4	0	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
9 .	7	0 0.0%	
50% of Total Cover: 1 20% of Total Cover: 0.4 2 = Total Cover Woody vine - All woody vines, regardless of heigh 1	10	0 0.0%	plants, except woody vines, less than approximately
Woody Vine Stratum (Plot Size : 30 )  1 0 □ 0.0%			Woody vine. All woody vines, regardless of height
	Woody Vine Stratum (Plot Size : 30)		vvoody vine - All woody vines, regardless of height.
20			
0 0000			Hydrophytic
4			
5		0 0.0%	
50% of Total Cover: 0 20% of Total Cover: 0 0 = Total Cover			
emarks: (If observed, list morphological adaptations below).			

Sampling Point:

UPP1020

Depth	Matrix	-		Redox F	eatures		-	
(inches)	Color (moist)	%	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
	<u>'</u>		·					
						2		
pe: C=Concentrat	tion, D=Depletion, RM	=Reduced	Matrix, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
iric Soil Indic	ators:						Indicators for Problema	ntic Hydric Soils³:
Histosol (A1)			Polyval	ue Below	Surface (S8) (	(LRR S, T, U)	1 cm Muck (A9) (LRR	O)
Histic Epipedon			Thin D	ark Surfac	ce (S9) (LRR S	, T, U)	2 cm Muck (A10) (LR	R S)
Black Histic (A3	•				ineral (F1) (LR	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
Hydrogen Sulfic	` '				latrix (F2)		Piedmont Floodplain S	Soils (F19) (LRR P, S, T)
Stratified Layer				ed Matrix	• •		Anomalous Bright Loa	my Soils (F20) (MLRA 153B)
-	(A6) (LRR P, T, U)			Dark Surf			Red Parent Material (	TF2)
•	neral (A7) (LRR P, T	, U)			urface (F7)		Very Shallow Dark Su	rface (TF12)
Muck Presence				Depression			Other (Explain in Rem	narks)
1 cm Muck (A9				10) (LRR				
	V Dark Surface (A11)				(F11) (MLRA	•		
Thick Dark Surf	` ,				Masses (F12)			
	edox (A16) (MLRA 1				(F13) (LRR P,		3Indicators	of hydrophytic vegetation and
	neral (S1) (LRR O, S	)			7) (MLRA 151)		wetland I	nydrology must be present,
Sandy Gleyed N					(F18) (MLRA 1		unless	disturbed or problematic.
Sandy Redox (S						) (MLRA 149A)		
Stripped Matrix	` '		Anoma	lous Brigh	nt Loamy Soils	(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S	57) (LRR P, S, T, U)							
	. (If abanced):							
Type:	(If observed):					١.	lydric Soil Present? Ye	s No •
Depth (inches):						'	lydric Soil Present? Ye	s
repair (menes)i								
narks:								

Project/Site: Bluewater Te	rminal SPM Project		City/County: San Patr	icio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips	66 Pipeline, LLC		State	∷ ⊤X <b>S</b> an	npling Point:	UPP1021
Investigator(s): B. Bringh	urst & A. Ostrowski		Section	on, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace	e, etc.): Flat		Local relief (concave	convex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T			<b>Lat:</b> 27.943445	Long: -97.	.337308	Datum: NAD 83
Soil Map Unit Name: Victor	ria clay 0 to 1 percent	slones (VcA)		NWI Classification		
	· ·	,				
Are climatic/hydrologic con			•	No (If no, exp	olain in Remarks.)	
Are Vegetation 🗸 , :	Soil 🗹 , or Hyd	rology signi	ficantly disturbed?	Are "Normal Circun	mstances" present?	Yes   No
Are Vegetation, 9	Soil , or Hyd	rology natu	rally problematic?	(If needed, explain	any answers in Rer	narks.)
SUMMARY OF FINDING	S — Attach site m	ap showing samplin	g point locations, t	ansects, important	t features, etc.	
Hydrophytic Vegetation Pres	ent?	res O No 💿				
Hydric Soil Present?		Yes O No 💿		e Sampled Area n a Wetland?	Yes C	No •
Wetland Hydrology Present?		Yes   No	Within	i a vvetiana:		
Remarks:			I			
Hydrophytic vegetation and I	nydric soil are not pre	sent. This is not a wetland				
, , , ,	,					
HADBOLOCA						
HYDROLOGY						-
Wetland Hydrology Indic		المعمد فطفا المعادمات		Cocondon: In	diantaua (Minimuum	of 2 magnined)
Primary Indicators (Minin	lum of one require				ndicators (Minimum	. ,
Surface Water (A1)		Aquatic Fauna (	•		ely Vegetated Concave	Surface (B8)
High Water Table (A2)		Marl Deposits (E			age Patterns (B10)	
✓ Saturation (A3)		Hydrogen Sulfid			Trim Lines (B16)	
Water Marks (B1)			pheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)		Presence of Rec			sh Burrows (C8)	
Drift Deposits (B3)			luction in Tilled Soils (C6)		ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		Thin Muck Surfa	• •		orphic Position (D2)	
Iron Deposits (B5)		Other (Explain i	n Remarks)		w Aquitard (D3)	
Inundation Visible on Ae	5 , . ,				leutral Test (D5)	
Water-Stained Leaves (E	i9)			Sphag	gnum moss (D8) (LRR 1	Γ, U)
Field Observations:						
Surface Water Present?	Yes O No 🤄	Depth (inch	es):			
Water Table Present?	Yes O No 🤄	Depth (inche	es):			
Saturation Present?	Yes   No	Depth (inch	es): 4	Wetland Hydr	ology Present? Ye	s 💿 No 🔾
(includes capillary fringe)						
Describe Recorded Data (str	eam gauge, monitor	well, aerial photos, previo	us inspections), if available	e:		
Remarks:						

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 \_Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0\_

0 \_

0

0\_\_\_ 0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

0

0

0 0 Rel.Strat. Indicator

0.0%\_

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0%

0.0%

0.0%

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%

0.0% 0.0% 0.0%\_ 0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%

0.0%

0.0% 0.0%

\_\_\_\_0.0%\_\_\_\_

= Total Cover

= Total Cover

0.0%

0.0%

Status

Sampling Point: UPP1021
Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A)
(A)
Total Number of Dominant Species Across All Strata: 1 (B
Percent of Dominant Species That are OBL, FACW, or FAC: 0.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species $0 \times 1 = 0$
FACW species $0 \times 2 = 0$
FAC species $0 \times 3 = 0$
FACU species $2 \times 4 = 8$
UPL species $0 \times 5 = 0$ Colum Totals: $2 \times (A) \times \frac{8}{2} \times (B)$
Prevalence Index = B/A= 4.000  Hydrophytic Vegetation Indicators:
1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or
Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Woody vine - All woody vines, regardless of height.
Hydrophytic Vegetation Present ?

Remarks: (If observed,	list morphological	adaptations below).

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			Redox F	eatures				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks	
0 - 16	10YR 3/1	100					Silty Clay		
Tugo C-Concentrati	on D-Donlotion BM/	-Doduced	Matrix CS-Covered	or Costado	Sand Grains	Alegation DI-Page	Lining M-Matrix		
<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:  Indicators for Problematic Hydric Soils <sup>3</sup> :									
Hydric Soil Indica	tors:						indicators for Problema	auc nyaric Soilss:	
Histosol (A1)	(42)				Surface (S8) (		1 cm Muck (A9) (LRR	O)	
Histic Epipedon (	` ,				ce (S9) (LRR S		2 cm Muck (A10) (LR	R S)	
Black Histic (A3)					ineral (F1) (LR	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)	
Hydrogen Sulfide	` '				latrix (F2)		Piedmont Floodplain	Soils (F19) (LRR P, S, T)	
Stratified Layers	, ,			ed Matrix	. ,		Anomalous Bright Loa	amy Soils (F20) (MLRA 153B)	
	(A6) (LRR P, T, U)			Dark Surf	` ,		Red Parent Material (	TF2)	
	eral (A7) (LRR P, T,	. U)			urface (F7)		Very Shallow Dark Su	rface (TF12)	
Muck Presence (				Depressio			Other (Explain in Ren	narks)	
1 cm Muck (A9)				10) (LRR					
	Dark Surface (A11)		Deplete	ed Ochric	(F11) (MLRA	151)			
Thick Dark Surfa	• •		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)			
	dox (A16) (MLRA 15		Umbric	Surface (	(F13) (LRR P,	T, U)	3Indicators	of hydrophytic vogotation and	
	eral (S1) (LRR O, S)	)	Delta C	chric (F1	7) (MLRA 151)	)		of hydrophytic vegetation and hydrology must be present,	
Sandy Gleyed Ma	atrix (S4)		Reduce	ed Vertic (	(F18) (MLRA 1	50A, 150B)		disturbed or problematic.	
Sandy Redox (S	5)		Piedmo	nt Floodp	olain Soils (F19	) (MLRA 149A)			
Stripped Matrix (	(S6)		Anoma	lous Brigh	nt Loamy Soils	(F20) (MLRA 149A	, 153C, 153D)		
Dark Surface (S7	7) (LRR P, S, T, U)								
Restrictive Layer (	(If observed):								
Type:	(z. observeu).						lydric Soil Present? Ye	nc No 🖨	
Depth (inches):						'	iyane son Fresent: Te	ns () No (●)	
pepur (menes).									
Remarks:									

Project/Site: Bluewater Termi	nal SPM Project	City/County: San Patricio		Sampling Date:	2/5/2019
Applicant/Owner: Phillips 66	Pipeline, LLC	State:	TX <b>San</b>	npling Point:	UPP1022
Investigator(s): B. Bringhurst	t & A. Ostrowski	Section,	Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace, e	etc.): Flat	Local relief (concave, co	nvex, none): Flat		Slope: 1 % 0.6 °
Subregion (LRR): LRR T	-	Lat: 27.945928	Long: -97.	335708	Datum: NAD 83
	olay, depressional ()(d)	27.3 13320	NWI Classification		- NAD 03
Soil Map Unit Name: Victoria o	ciay, depressional (vu)		NWI Classificatio	MI. None	
Are climatic/hydrologic condit	tions on the site typical for this time o	of year? Yes   No	(If no, exp	lain in Remarks.)	
Are Vegetation , Soi	l 🗌 , or Hydrology 🗌 sig	nificantly disturbed?	Are "Normal Circun	nstances" present?	Yes   No
Are Vegetation , Soi	l , or Hydrology nat	turally problematic?	(If needed, explain	any answers in Ren	narks.)
SUMMARY OF FINDINGS -	- Attach site map showing sampl	ling point locations, tran	sects, important	features, etc.	
Hydrophytic Vegetation Present	? Yes O No •				
Hydric Soil Present?	Yes O No •		ampled Area Wetland?	Yes 🔾	No •
Wetland Hydrology Present?	Yes O No •	William	Wolland.		
Hydrophytic vegetation, hydric s	soil, and wetland hydrology are not presen	nt. This is not a wetland.			
Wetland Hydrology Indicato	 Drs:				
Primary Indicators (Minimur	m of one required; check all that app	ı <u>ly)</u>	Secondary In	dicators (Minimum o	of 2 required)
Surface Water (A1)	Aquatic Fauna	a (B13)	Sparse	ely Vegetated Concave	Surface (B8)
High Water Table (A2)		(B15) (LRR U)		ige Patterns (B10)	carrace (Bo)
Saturation (A3)		fide Odor (C1)		Trim Lines (B16)	
Water Marks (B1)	Oxidized Rhize	ospheres along Living Roots (C3		eason Water Table (C2)	)
Sediment Deposits (B2)	Presence of R	Reduced Iron (C4)		sh Burrows (C8)	
Drift Deposits (B3)	Recent Iron R	Reduction in Tilled Soils (C6)	Satura	ition Visible on Aerial Ir	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Su	rface (C7)	Geomo	orphic Position (D2)	
Iron Deposits (B5)	Other (Explain	n in Remarks)	Shallov	w Aquitard (D3)	
Inundation Visible on Aerial	l Imagery (B7)		FAC-N	eutral Test (D5)	
Water-Stained Leaves (B9)			Sphag	num moss (D8) (LRR T	ī, U)
Field Observations:					
Surface Water Present?	Yes No • Depth (inc	ches):			
Water Table Present?	res No   Depth (inc	ches):			
Saturation Present? (includes capillary fringe)	res No O Depth (inc		Wetland Hydro	ology Present? Yes	s No •
	m gauge, monitor well, aerial photos, prev	vious inspections), if available:			
Remarks:					

	Absolute % Cover  Cover  Absolute Cover	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:
ree Stratum (Plot Size : 30 )	0.00	Total Number of Dominant
1		Species Across All Strata:1(B
2		Devent of Devisors Creation
3		Percent of Dominant Species That are OBL, FACW, or FAC: 0.0% (A/B)
<del> </del>		<u> </u>
5		Prevalence Index worksheet:
5		Total % Cover of: Multiply by:
7		OBL species $0 \times 1 = 0$
8		FACW species $\underline{\qquad \qquad 5 \qquad \qquad x \ 2 = \underline{\qquad 10 \qquad }}$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $\underline{20}$ x 3 = $\underline{60}$
<b>pling or Sapling/Shrub Stratum</b> (Plot Size : <u>30</u> )		FACU species $0 \times 4 = 0$
L	0	UPL species $75 \times 5 = 375$
2	0	Colum Totals: $2$ (A) $8$ (B)
3	0.0%	Prevalence Index = B/A= 4,000
ļ	0.0%	4,000
5		Hydrophytic Vegetation Indicators:
ō		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is > 50%
8.		3 - Prevalence Index is ≤ 3.0¹
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
2	0	hydrology must be present, unless disturbed or
1		Definition of Vegetation Strata:
5		Tree - Woody plants, excluding woody vines,
6	0	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.0 cm) of larger in diameter at breast height (DDH).
· - ·		Sapling - Woody plants, excluding woody vines,
· - ·		approximately 20 ft (6 m) or more in height and less
1Bothriochloa ischaemum var. songarica		Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii	20 <b>2</b> 20.0% FAC	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor	20 ✓ 20.0% FAC 5 5.0% FACW	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4 .	20 2 20.0% FAC 5 5.0% FACW 0 0.0%	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4 .	20  20.0% FAC 5  5.0% FACW 0  0.0% 0  0.0%	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines,
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20 2 20.0% FAC 5 5.0% FACW 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including
1 . Bothriochloa ischaemum var. sondarica 2 . Andropodon gerardii 3 . Sabal minor 4	20 2 20.0% FAC 5 5.0% FACW 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4 . 5 . 6 . 7 . 8 . 9 . 0 .	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
1 . Bothriochloa ischaemum var. sondarica 2 . Andropodon gerardii 3 . Sabal minor 4	20  20.0% FAC 5  5.0% FACW 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 100  = Total Cover	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1 . Bothriochloa ischaemum var. sondarica 2 . Andropodon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4	20	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
1 . Bothriochloa ischaemum var. songarica 2 . Andropogon gerardii 3 . Sabal minor 4 . 5 . 6 . 7 . 8 . 9 . 0 . 1 . 2 . 50% of Total Cover: 50 20% of Total Cover: 20  Voody Vine Stratum (Plot Size : 30 ) 1 . 2 .	20  20.0% FAC 5  5.0% FACW 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0% 0  0.0%	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No

<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.

Depth		Matrix			Redox I	Features			
(inches)	Color	moist)	%	Color (moist)	%	Tvpe1	Location <sup>2</sup>	Texture	Remarks
- 4	10YR	3/1	100					Silty Clay	
- 8	10YR	3/4	100	,				Silty Clay	<u> </u>
- 16	10YR	6/2	100	<u>'</u>				Silty Clay	gravel

**Hydric Soil Indicators:** Indicators for Problematic Hydric Soils3: Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) <sup>3</sup>Indicators of hydrophytic vegetation and Sandy Muck Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) unless disturbed or problematic. Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): **Hydric Soil Present?** Type: No 🕒 Depth (inches): Remarks:

<b>Project/Site:</b> Bluewater Terminal SPM	Project	City/County: San Patricio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips 66 Pipeline	, LLC	State: TX	Sampling Point:	UPP1023
Investigator(s): B. Bringhurst & A. O.	strowski	Section, To	wnship, Range: S N/A T N/A	R N/A
Landform (hillslope, terrace, etc.):	Flat	Local relief (concave, conv	ex, none): Flat	<b>Slope:</b> 1 % 0.6 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.946483	<b>Long:</b> -97.335401	Datum: NAD 83
Soil Map Unit Name: Victoria clay, dep	oressional (Vd)		NWI Classification: None	
Are climatic/hydrologic conditions or	the site typical for this time of	year? Yes 💿 No (	(If no, explain in Remarks.)	
Are Vegetation, Soil			"Normal Circumstances" present?	v
Are Vegetation , Soil		•	needed, explain any answers in Ren	Yes • No ·
Are vegetation, 50ii	, or mydrology natu	irally problematic: (1)	needed, explain any answers in Ken	nai ks.)
SUMMARY OF FINDINGS – Attac	h site map showing samplir	ng point locations, transe	cts, important features, etc.	
Hydrophytic Vegetation Present?	Yes O No •	Is the Sam	unlad Aroa	
Hydric Soil Present?	Yes O No •	within a We		No 💿
Wetland Hydrology Present?	Yes O No •			
Remarks:				
Hydrophytic vegetation, hydric soil, and	wetland hydrology are not present.	This is not a wetland.		
HADBOLOCA				
HYDROLOGY  Wetland Hydrology Indicators:				
Primary Indicators (Minimum of on	ne required: check all that apply	·)	Secondary Indicators (Minimum	of 2 required)
Surface Water (A1)	Aquatic Fauna (	•	Sparsely Vegetated Concave	
High Water Table (A2)	Marl Deposits (I	•	Drainage Patterns (B10)	Surface (DO)
Saturation (A3)	Hydrogen Sulfic		Moss Trim Lines (B16)	
Water Marks (B1)	Oxidized Rhizos	spheres along Living Roots (C3)	Dry Season Water Table (C2)	)
Sediment Deposits (B2)	Presence of Re	duced Iron (C4)	Crayfish Burrows (C8)	,
Drift Deposits (B3)	Recent Iron Re	duction in Tilled Soils (C6)	Saturation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa	ace (C7)	Geomorphic Position (D2)	
Iron Deposits (B5)	Other (Explain i	in Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imager	γ (Β7)		FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR 1	Γ, U)
Field Observations:				
Surface Water Present? Yes	No • Depth (inch	nes):		
Water Table Present? Yes	No   Depth (inch	nes):		
Saturation Present? (includes capillary fringe)  Yes	No   Depth (inch	nes):	Wetland Hydrology Present? Ye	s O No 💿
(includes capillary fillige)				_
Describe Recorded Data (stream gauge	, monitor well, aerial photos, previo	ous inspections), if available:		
Remarks:				

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : <u>30</u> )

20% of Total Cover: 0

20% of Total Cover: 20

20% of Total Cover: 0

(Plot Size : 30 )

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 . Medicago lupulina

3 . Chaerophyllum tainturieri

4 . Lvsimachia arvensis

50% of Total Cover: 50

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_

2 . Bothriochloa ischaemum var. songarica

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Absolute

% Cover

100

	Dominant	
	Species?	Dominance Test worksheet:
er	Rel.Strat. Indicator Cover Status	Number of Dominant Species That are OBL, FACW, ro FAC:
<u> </u>		Total Number of Dominant Species Across All Strata:2 (B
)   	0.0%	Developed of Developed Consider
<u>)                                    </u>	0.0%	Percent of Dominant Species That are OBL, FACW, or FAC: 50.0% (A/B)
) [	0.0%	Prevalence Index worksheet:
<u> </u>	0.0%	
	0.0%	
	0.0%	OBL species $\begin{array}{cccccccccccccccccccccccccccccccccccc$
)	= Total Cover	FAC species $5 \times 3 = 15$
_		FACU species $3 \times 4 = 12$
<u>.</u> [	0.0%	UPL species 92 x 5 = $\frac{460}{}$
	0.0%	Colum Totals: 100 (A) 445 (B)
	0.0%	
<u> </u>	0.0%	Prevalence Index = B/A= 4.450
_	0.0%	Hydrophytic Vegetation Indicators:
	0.0%_	1 - Rapid Test for Hydrophytic Vegetation
_	0.0%_	2 - Dominance Test is > 50%
	0.0%_	3 - Prevalence Index is ≤ 3.0¹
_	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	0.0%_	<sup>1</sup> Indicators of hydric soil and wetland
-	0.0%	hydrology must be present, unless disturbed or
	0.0%	
)    - 	0.0%	Definition of Vegetation Strata:
<u>)                                    </u>		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
)	= Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).
7 •		Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5	5.0% FAC	
3	3.0% FACU	Sapling/Shrub - Woody plants, excluding vines, less
_ [	0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.
_ [	0.0%	Shrub - Woody plants, excluding woody vines,
_	0.0%_	approximately 3 to 20 ft (1 to 6 m) in height.
	0.0%_	
_	0.0%_	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
<u> </u>	0.0%	plants, except woody vines, less than approximately
<u> </u>	0.0%	3 ft (1 m) in height.
<u>)                                    </u>	0.0%	
_	= Total Cover	Woody vine - All woody vines, regardless of height.
	0.0%	
	0.0%	
<u> </u>	0.0%	Hydrophytic Vegetation Yes No ●
) [	0.0%	Vegetation Yes No ● Present ?
) ]_		
0	= Total Cover	

|--|

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	Depth Matrix Redox Features									
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks		
0 - 16	10YR 4/1	100					Clay			
						2				
¹Type: C=Concentratio	·	Reduced IV	latrix, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore		skia Huduia Caila?		
Hydric Soil Indicat	tors:						Indicators for Problema	atic Hydric Soils <sup>3</sup> :		
Histosol (A1)			Polyval	ue Below	Surface (S8) (	LRR S, T, U)	1 cm Muck (A9) (LRR	0)		
Histic Epipedon (	(A2)		Thin Da	ark Surfac	e (S9) (LRR S	, T, U)	2 cm Muck (A10) (LR	R S)		
Black Histic (A3)			Loamy	Mucky Mi	neral (F1) (LR	R O)	Reduced Vertic (F18) (outside MLRA 150A,B)			
Hydrogen Sulfide	` '		Loamy	Gleyed M	atrix (F2)		Piedmont Floodplain S	Soils (F19) (LRR P, S, T)		
Stratified Layers			Deplete	ed Matrix	(F3)		Anomalous Bright Loa	amy Soils (F20) (MLRA 153B)		
	A6) (LRR P, T, U)		Redox	Dark Surf	ace (F6)		Red Parent Material (	TF2)		
	eral (A7) (LRR P, T,	U)	Deplete	ed Dark S	urface (F7)		Very Shallow Dark Su	rface (TF12)		
Muck Presence (			Redox	Depressio	ns (F8)		Other (Explain in Rem	narks)		
1 cm Muck (A9)			Marl (F	10) (LRR	U)					
	Dark Surface (A11)		Deplete	ed Ochric	(F11) (MLRA :	l51)				
Thick Dark Surfa	ce (A12)		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)				
Coast Prairie Rec	dox (A16) (MLRA 15	60A)	Umbric	Surface (	(F13) (LRR P,	T, U)	27 1			
Sandy Muck Mine	eral (S1) (LRR O, S)	)	Delta C	chric (F1	7) (MLRA 151)	)		of hydrophytic vegetation and hydrology must be present,		
Sandy Gleyed Ma	atrix (S4)		Reduce	d Vertic (	F18) (MLRA 1	50A, 150B)		disturbed or problematic.		
Sandy Redox (S5	5)		Piedmo	nt Floodp	lain Soils (F19	) (MLRA 149A)				
Stripped Matrix (	S6)						RA 149A, 153C, 153D)			
Dark Surface (S7	') (LRR P, S, T, U)				,	. , ,				
Restrictive Layer (	•					,	Hydric Soil Present? Yes No			
Depth (inches):										
Remarks:						I				

Project/Site: Bluewater Te	rminal SPM Project	City/County: San Patr	icio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips	66 Pipeline, LLC	State	: TX San	npling Point:	UPP1024
Investigator(s): B. Bringh	urst & A. Ostrowski	Section	on, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace	e, etc.): Flat	Local relief (concave	, convex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.947333	Long: -97	.334527	Datum: NAD 83
Soil Map Unit Name: Victor	ria clay depressional (Vd)		NWI Classification		
			_		
Are climatic/hydrologic con	nditions on the site typical for this	time of year? Yes 🌘	No (If no, exp	olain in Remarks.)	
Are Vegetation 🗸 , 🤄	Soil 🗸 , or Hydrology	significantly disturbed?	Are "Normal Circur	mstances" present?	Yes   No
Are Vegetation , 9	Soil , or Hydrology	naturally problematic?	(If needed, explain	any answers in Ren	narks.)
SUMMARY OF FINDING	S — Attach site map showing :	sampling point locations, t	ansects, important	t features, etc.	
Hydrophytic Vegetation Prese	ent? Yes No	• In the	0		
Hydric Soil Present?	Yes O No		e Sampled Area n a Wetland?	Yes C	No 💿
Wetland Hydrology Present?	Yes   No	$\circ$			
Remarks: Hydrophytic vegetation and h	hydric soil are not present. This is not	a wetland.			
Wetland Hydrology Indic	ators:				
	num of one required: check all th	at apply)	Secondary In	dicators (Minimum	of 2 required)
Surface Water (A1)		c Fauna (B13)		ely Vegetated Concave	
High Water Table (A2)		eposits (B15) (LRR U)		age Patterns (B10)	Surface (DO)
✓ Saturation (A3)		gen Sulfide Odor (C1)		Trim Lines (B16)	
Water Marks (B1)		ed Rhizospheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)		nce of Reduced Iron (C4)		sh Burrows (C8)	,
Drift Deposits (B3)	Recent	t Iron Reduction in Tilled Soils (C6)		ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	☐ Thin M	luck Surface (C7)		orphic Position (D2)	5 , . ,
Iron Deposits (B5)	Other	(Explain in Remarks)	Shallo	w Aquitard (D3)	
Inundation Visible on Ae	erial Imagery (B7)		FAC-N	leutral Test (D5)	
Water-Stained Leaves (E	39)		Sphag	num moss (D8) (LRR 1	Г, U)
Field Observations:					
Surface Water Present?	Yes No • De	epth (inches):			
Water Table Present?		epth (inches):			
Saturation Present? (includes capillary fringe)		epth (inches): 2	Wetland Hydr	ology Present? Ye	s • No O
Describe Recorded Data (str	ream gauge, monitor well, aerial photo	os, previous inspections), if available	e: 		

	Dominant	Dominance Test worksheet:
	Species? Absolute Rel.Strat. Indicator	Number of Dominant Species
(DL St. o. o.)	% Cover Cover Status	That are OBL, FACW, ro FAC:
e Stratum (Plot Size : 30)	0	Total Number of Dominant
		Species Across All Strata: 2 (B
		Devent of Developet Charles
•		Percent of Dominant Species That are OBL, FACW, or FAC:  0.0% (A/
-		
5		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
·		OBL species $0 \times 1 = 0$
3	0	FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $0 \times 3 = 0$
<b>pling or Sapling/Shrub Stratum</b> (Plot Size : <u>30</u> )		FACU species $8 \times 4 = 32$
		UPL species $25 \times 5 = 125$
2		Colum Totals: 100 (A) 487 (B
3		Prevalence Index = B/A= 4.870
1	0	
5	0	Hydrophytic Vegetation Indicators:
5		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is > 50%
8		3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
rub Stratum (Plot Size : 30 )		
·	0	<sup>1</sup> Indicators of hydric soil and wetland
2	0	hydrology must be present, unless disturbed or
3	0	
4	0.0%	Definition of Vegetation Strata:
		Definition of Vegetation Strata:
5	0	Tree - Woody plants, excluding woody vines,
5	0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
5	0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)
5	0 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines,
5	0 0.0% 0.0% 0.0% 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
5	0 0.0% 0 0.0% 0 = Total Cover 15 ✓ 45.5% UPL 10 ✓ 30.3% UPL	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines,
5	0 0.0% 0 0.0% 0 = Total Cover 15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0% 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0% 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines,
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including
5	0 0.0% 0 0.0% 0 = Total Cover  15 ✓ 45.5% UPL 10 ✓ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
5	0 0.0% 0 1.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
5	0 0.0% 0 1.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
5	0 0.0% 0 0.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50. 50% of Total Cover: 0 20% of Total Cover: 0  20h Stratum (Plot Size : 30)  1. Lamium amplexicaule  2. Zea mavs  3. Taraxacum officinale  4. Capsella bursa-pastoris  5. 6. 7. 83. 90. 91. 92. 50% of Total Cover: 17 20% of Total Cover: 6.6	0 0.0% 0 1.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
5	0 0.0% 0 1.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5	0 0.0% 0 1.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
5	0 0.0% 0 1.0% 0 2.0% 0 2.0% 0 45.5% UPL 10 √ 30.3% UPL 5 15.2% FACU 3 9.1% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 33 = Total Cover	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
5	0	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
erb Stratum (Plot Size : 30 )  1 . Lamium amplexicaule 2 . Zea mavs 3 . Taraxacum officinale 4 . Cansella bursa-pastoris 5 . 6 . 7 . 8 . 9 . 0 . 1 . 2 . 50% of Total Cover: 17 20% of Total Cover: 6.6	0 0.0% 0 0.0% 0 10.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
5	0 0.0% 0 0.0% 0 10.0% 0 = Total Cover  15	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u> </u>	Color (moist)	<u></u>	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay Loam	
¹Type: C=Concentrati	on, D=Depletion, RM=	Reduced N	latrix, CS=Covered (	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore I	.ining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	atic Hydric Soils³:
5 cm Mucky Min  Muck Presence (  1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Matrix (Stripped Matrix (Stripped Matrix)	e (A4) (A5) (A6) (LRR P, T, U) eral (A7) (LRR P, T, (A8) (LRR U) (LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	ace (F6) urface (F7) urs (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	. ,						ydric Soil Present? Ye	s No ●
Remarks:								

City/County: San Patricio

Sampling Date:

2/5/2019

Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX Sampling Point: UPP1025
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Township, Range: S N/A T N/A R N/A
Landform (hillslope, terrace, etc.): Flat Local re	lief (concave, convex, none): Flat Slope: 0 % 0.0 °
Subregion (LRR): LRR T Lat: 2	7.952384 <b>Long:</b> -97.332093 <b>Datum:</b> NAD 83
Soil Map Unit Name: Victoria clay, depressional (Vd)	NWI Classification: None
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 naturally prob	lematic? (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	
Hydric Soil Present? Yes No •	Is the Sampled Area within a Wetland?
Wetland Hydrology Present? Yes No •	Willia Wolland
Remarks:	
Hydrophytic vegetation, hydric soil, and wetland hydrology are not present. This is not	a wetland.
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (Minimum of one required; check all that apply)	Secondary Indicators (Minimum of 2 required)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U	
Saturation (A3) Hydrogen Sulfide Odor (C1	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres alor	ng Living Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iron	(C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in T	illed Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	_
Caturation Drocant?	Wetland Hydrology Present? Yes ○ No ●
(includes capillary fringe)  Yes No Depth (inches):	— Wedalid Hydrology Fresence Tes O No O
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection	ons), if available:
Remarks:	

**Project/Site:** Bluewater Terminal SPM Project

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.6

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

50% of Total Cover: 1.5

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_\_

1.\_\_\_\_

**Herb Stratum** 

1 . Zea mavs

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0

0 \_

0

0\_\_\_ 0

0 0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

3

0

0

0 0 Rel.Strat. Indicator

0.0%

0.0%\_

0.0% 0.0%

0.0% 0.0%\_

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0%

0.0%

0.0%

0.0%

0.0%

0.0% 0.0% 0.0%\_ \_ 0.0%

0.0%

0.0%\_ 0.0%

0.0%\_ \_

0.0%

0.0%

0.0% 0.0%

0.0%

= Total Cover

= Total Cover

0.0%

= Total Cover

3 🗸 \_\_100.0%\_\_UPL\_

0.0%

0.0%

Status

Dominance Test w	orksheet			
Number of Dominant				
That are OBL, FACW			0	(A)
Total Number of Dom				
Total Number of Don Species Across All St			2	(B
Percent of Dominant	Chasias			
That are OBL, FACW			0.0%	(A/B)
Prevalence Index	worksheet:			
Total % Cover	of:	Multipl	y by:	_
OBL species	0	x 1	=0	
FACW species	0	x 2		
FAC species	0	x 3 :	=	
FACU species	0		=	
UPL species Colum Totals:	3		= <u>15</u> 157	(=)
Colum Totals:	33	(A)		(B)
Prevalence In	dex = B/A=		4.758	
Hydrophytic Veget	tation Indic	ators:		
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic H	e Test is > 5 e Index is ≤ lydrophytic	0% 3.0¹ Vegetat	ion¹ (Explai	n)
2 - Dominance 3 - Prevalence	e Test is > 5 e Index is ≤ lydrophytic ydric soil an	0% 3.0¹ Vegetat d wetla	ion¹ (Explai	n)
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hydrology must b	e Test is > 5 e Index is ≤ lydrophytic lydric soil an oe present, i	0% 3.0¹ Vegetat d wetla inless d	ion¹ (Explai nd listurbed or	n)
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hydrology must b	e Test is > 5 e Index is ≤ lydrophytic  ydric soil an be present, u  egetation	0% 3.0¹ Vegetat d wetla inless d	ion¹ (Explai nd isturbed or :	n)
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hydrology must b	e Test is > 5 e Index is ≤ lydrophytic  ydric soil an oe present, u  egetation ants, exclud	0% 3.0¹ Vegetat d wetla unless d Strata	nd listurbed or :	
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V  Tree - Woody pla	e Test is > 5 e Index is ≤ e Index is ≤ elydrophytic  ydric soil an oe present, u  egetation ants, exclud ef (6 m) or	0% 3.0¹ Vegetat d wetla unless d Strata ing woo more in	nd iisturbed or  dy vines, height and	3 in.
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger	e Test is > 5 e Index is ≤ e Index is ≤ elydrophytic  ydric soil an ele present, u  egetation ents, exclud ent (6 m) or r in diamete	0% 3.0¹ Vegetat d wetla inless d Strata ing woo more in r at bre	nd iisturbed or  dy vines, height and ast height (I	3 in. DBH).
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V  Tree - Woody pla approximately 20	e Test is > 5 e Index is ≤ e Index is ≤ elydrophytic  ydric soil an oe present, u  egetation ants, exclud ft (6 m) or r in diamete  plants, excl	0% 3.0¹ Vegetat d wetla unless d  Strata ing woo more in r at bre  uding v	nd ilisturbed or  dy vines, height and ast height (I	3 in. DBH).
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V  Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody	e Test is > 5 e Index is ≤ e Index is ≤ elydrophytic  ydric soil an obe present, u  egetation ants, exclud ft (6 m) or r in diamete  plants, excl oft (6 m) or	0% 3.0¹ Vegetat d wetla unless d  Strata ing woo more in r at bre  uding v	nd ilisturbed or  dy vines, height and ast height (I	3 in. DBH).
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V  Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)	e Test is > 5 e Index is ≤ e Index is ≤ elydrophytic  ydric soil an oe present, u  egetation ants, exclud of (6 m) or r in diamete  plants, excl of (6 m) or of (6 m) or of (6 m) or of (6 m) or of (7 m) or of (8 m) or of (8 m) or of (9	0% 3.0¹ Vegetat d wetla unless d  Strata ing woo more in r at bre uding v more in	nd iisturbed or  idy vines, height and ast height (I	3 in. DBH).
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V  Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20	e Test is > 5 e Index is ≤ e In	0% 3.0¹ Vegetat d wetlaunless d Strata ing woo more in r at bre uding v more in	nd ilisturbed or  dy vines, height and ast height (I	3 in. DBH). less
2 - Dominance 3 - Prevalence Problematic H  Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or largel  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar	e Test is > 5 e Index is ≤ e Index is ≤ elydrophytic  ydric soil an oe present, u  egetation ants, exclud of (6 m) or r in diamete  plants, excl of (6 m) or n) DBH.  Woody plant and greater the	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre uding v more in	nd iisturbed or  dy vines, height and ast height (I voody vines height and	3 in. DBH). less
2 - Dominance 3 - Prevalence Problematic H  Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar  Shrub - Woody p	e Test is > 5 e Index is ≤ e Index is < e Index is ≤ e Index is ≤ e Index is ≤ e In	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre  uding v more in as, exclusion 3.2 ding woo	nd iisturbed or  idy vines, height and ast height (I woody vines, height and	3 in. DBH). less
2 - Dominance 3 - Prevalence Problematic H  Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or largel  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar	e Test is > 5 e Index is ≤ e Index is < e Index is ≤ e Index is ≤ e Index is ≤ e In	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre  uding v more in as, exclusion 3.2 ding woo	nd iisturbed or  idy vines, height and ast height (I woody vines, height and	3 in. DBH). less
2 - Dominance 3 - Prevalence Problematic H  Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar  Shrub - Woody p approximately 3 t  Herb - All herbace	e Test is > 5 e Index is ≤ e Index is < e Index is ≤ e Index is < e Index is ≤ e In	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre  uding v more in as, exclu nan 3.2 ding wo 6 m) ir	nd iisturbed or  idy vines, height and ast height (I woody vines, height and uding vines, fit (1m) tall wody vines, height.	3 in. DBH). less less
2 - Dominance 3 - Prevalence Problematic H  Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar  Shrub - Woody p approximately 3 t  Herb - All herbacherbaceous vines	e Test is > 5 e Index is ≤ e Index is < e Index is ≤ e Index is ≤ e Index is ≤ e In	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre  uding v more in as, exclu nan 3.2  ding wo 6 m) ir  voody) s of size	nd iisturbed or  idy vines, height and ast height (I woody vines, height and uding vines, fit (1m) tall wody vines, height. plants, inclue, and wood	3 in. DBH). less less .
2 - Dominance 3 - Prevalence Problematic H  Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar  Shrub - Woody p approximately 3 t  Herb - All herbace	e Test is > 5 e Index is ≤ e Index is < e Index is ≤ e Index is ≤ e Index is ≤ e In	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre  uding v more in as, exclu nan 3.2  ding wo 6 m) ir  voody) s of size	nd iisturbed or  idy vines, height and ast height (I woody vines, height and uding vines, fit (1m) tall wody vines, height. plants, inclue, and wood	3 in. DBH). less less .
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar  Shrub - Woody p approximately 3 t  Herb - All herbacherbaceous vines plants, except wo	e Test is > 5 e Index is ≤ e Index is < e Index is ≤ e Index is ≤ e Index is ≤ e In	0% 3.0¹ Vegetat  d wetla unless d  Strata ing woo more in r at bre  uding v more in as, exclu nan 3.2  ding wo 6 m) ir  voody) s of size	nd iisturbed or  idy vines, height and ast height (I woody vines, height and uding vines, fit (1m) tall wody vines, height. plants, inclue, and wood	3 in. DBH). less less .
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b  Definition of V Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - V than 3 in. DBH ar  Shrub - Woody p approximately 3 t  Herb - All herbacherbaceous vines plants, except wo	e Test is > 5 e Index is < 5 e Index is < 5 e Index is < 6 e Index is < 6 e Index is < 7 e Index is < 7 e Index is < 7 e Index is < 8 e Index is < 9 e Index	0% 3.0¹ Vegetat  Vegetat  Strata ing woo more in r at bre uding v more in s, exclunan 3.2 ding woo 6 m) ir voody)   s of size ess tha	nd isturbed or  dy vines, height and ast height (I woody vines, height and uding vines, height and uding vines, height and uding vines, height, loody vines, height.	3 in. DBH). less less ding y ately

Remarks: (	If observed.	list morphological	adaptations below).
remains.	ii observed,	not morphological	adaptations below)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
<sup>†</sup> Type: C=Concentratio	on, D=Depletion, RM=	-Reduced M	latrix, CS=Covered (	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	tic Hydric Soils³:
5 cm Mucky Min  Muck Presence ( 1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Ma  Sandy Redox (St  Stripped Matrix (	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	ace (F6) urface (F7) urs (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Ren  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,					H	lydric Soil Present? Ye	s No •
Remarks:								

Project/Site: Bluewater Terminal SPM Project	City/County: San Patricio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX	Sampling Point:	UPP1026
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Town	nship, Range: S N/A T N/A	R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex	x, none): Convex	<b>Slope:</b> 1 % 0.6 °
Subregion (LRR): LRR T	<b>Lat:</b> 27.955422	Long: -97.328304	Datum: NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)	NV	WI Classification: None	
		-	
Are climatic/hydrologic conditions on the site typical for this tin	•	(If no, explain in Remarks.)	
Are Vegetation , Soil , or Hydrology	significantly disturbed? Are "	'Normal Circumstances" present?	Yes • No
Are Vegetation , Soil , or Hydrology	naturally problematic? (If ne	eeded, explain any answers in Ren	narks.)
SUMMARY OF FINDINGS — Attach site map showing sa	mpling point locations, transect	ts, important features, etc.	
Hydrophytic Vegetation Present? Yes No		<u> </u>	
Hydric Soil Present? Yes No	Is the Sampl		No ●
Wetland Hydrology Present?	within a vvet	iand?	
Remarks:	<u> </u>		
Hydrophytic vegetation, hydric soil, and wetland hydrology are not pre	esent. This is not a wetland.		
	_	-	
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (Minimum of one required: check all that	anniv)	Secondary Indicators (Minimum o	of 2 required)
	,		. ,
	auna (B13)	Sparsely Vegetated Concave	Surface (B8)
	osits (B15) (LRR U)	Drainage Patterns (B10)	
	Sulfide Odor (C1)	Moss Trim Lines (B16)	`
	Rhizospheres along Living Roots (C3)	Dry Season Water Table (C2)	)
	of Reduced Iron (C4)	Crayfish Burrows (C8)	()
	on Reduction in Tilled Soils (C6)	Saturation Visible on Aerial Ir	magery (C9)
	k Surface (C7)	Geomorphic Position (D2)	
	xplain in Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T	Γ, U)
Field Observations:			
· ·	n (inches):		
Water Table Present? Yes No • Depth	n (inches):		
Saturation Present? (includes capillary fringe)  Yes No   Depth	n (inches):	Wetland Hydrology Present? Yes	s No 💿
(includes capillary fillinge)			
Describe Recorded Data (stream gauge, monitor well, aerial photos,	previous inspections), if available:		
Remarks:			

Sampling I	Point:	UPP1	026		
Dominance Test wor	ksheet:				
Number of Dominant Sp That are OBL, FACW, ro			_	0	(A)
Total Number of Domin Species Across All Strat			_	1	(B
Percent of Dominant Sp That are OBL, FACW, o			_	0.0%	(A/B)
Prevalence Index wo	rksheet:				
Total % Cover of:		Multi	ply b	y:	_
OBL species	0	x 1	=	0	
FACW species	5	x 2	=	10	
FAC species	15_	x 3	=	45_	
FACU species	25_	x 4	=	100_	
UPL species	40	x 5	=	200	
Colum Totals:	3	(A)		15_	(B)
Prevalence Inde	x = B/A=			5.000	
Hydrophytic Vegetat	ion Indic	ators:			
1 - Rapid Test for 2 - Dominance T 3 - Prevalence II Problematic Hyd  1 Indicators of hydrology must be	est is > 5 ndex is ≤ lrophytic ric soil an	0% 3.0¹ Veget d wet	atio:	n¹ (Explair	n)
Definition of Veg	etation	Strat	a:		
Tree - Woody plant approximately 20 ft (7.6 cm) or larger ir Sapling - Woody pl approximately 20 ft	(6 m) or diamete ants, exc	more er at bi luding	in he eas woo	eight and it height (Dodge)	BH).
than 3 in. (7.6 cm)	DBH.				
Sapling/Shrub - Wo than 3 in. DBH and	greater t	han 3.	28 f	t (1m) tall.	ess
Shrub - Woody plar approximately 3 to 2					
Herb - All herbaceo herbaceous vines, plants, except woo 3 ft (1 m) in height.	regardles	s of si	ze, a	and woody	/
Woody vine - All wo	ody vine	s, rega	ardle	ess of heig	ıht.

<u>Tree Stratum</u> (Plot Size : <u>30</u> )		
1	0	Total Number of Dominant
2	0.0%	Species Across All Strata: (B
3	0.0%	Percent of Dominant Species
4	0 0.0%	That are OBL, FACW, or FAC:  0.0%  (A/B)
5	0.0%	Prevalence Index worksheet:
6	0.0%	Total % Cover of: Multiply by:
7	0.0%	
8	0.0%	
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
Sapling or Sapling/Shrub Stratum (Plot Size: 30)		35 4 100
	0	UPL species $25 \times 4 = 100$ UPL species $40 \times 5 = 200$
1	0 0.0%	Colum Totals: 3 (A) 15 (B)
		COTUM TOCATS: (A) (B)
3		Prevalence Index = B/A=5.000_
4		Hydrophytic Vegetation Indicators:
5	0.0%	
6	0.0%	1 - Rapid Test for Hydrophytic Vegetation
7	0	2 - Dominance Test is > 50%
8	0	3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<b>Shrub Stratum</b> (Plot Size : <u>30</u> )		
1 . Celtis pallida	10 🗸28.6% _UPL	<sup>1</sup> Indicators of hydric soil and wetland
2 . Diospyros texana	10 ✓28.6%UPL	hydrology must be present, unless disturbed or
3 . Parkinsonia aculeata	514.3%FAC	
4 . Celtis laevigata	514.3%FACW	Definition of Vegetation Strata:
5 . Zanthoxvlum faqara	514.3% FACU	Tree - Woody plants, excluding woody vines,
6	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 18 20% of Total Cover: 7	35 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).
Harb Charters (Dist Circ. 20.)		
Herb Stratum (Plot Size : 30)	20 d 40 00/ UDI	Sapling - Woody plants, excluding woody vines,
1Solanum triquetrum	20 40.0% UPL	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
2 _Helianthus annuus	10 ✓20.0% FAC	than o m. (7.0 om) bbm.
3 Cvnodon dactvlon	10	Sapling/Shrub - Woody plants, excluding vines, less
4Taraxacum officinale	510.0%FACU	than 3 in. DBH and greater than 3.28 ft (1m) tall.
5 . Taraxacum officinale	510.0%FACU	
6	0	Shrub - Woody plants, excluding woody vines,
7	0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
8	0	
9	0	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10	0	plants, except woody vines, less than approximately
11	0	3 ft (1 m) in height.
12	0	
50% of Total Cover: 25 20% of Total Cover: 10	50 = Total Cover	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot Size : 30)		
1	0	
2	00.0%	
3.	0.0%	Hydrophytic
4.	0.0%	Vegetation Yes No •
5	0.0%	Present ?
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
Remarks: (If observed, list morphological adaptations below).		
*Indicator suffix = National status or professional decision assigned becau	se Regional status not defined by FWS.	

Dominant Species? Rel.Strat.

Cover

Indicator

Status

**Absolute** 

% Cover

Depth	Matr	ix		Redox	Features			
(inches)	Color (mois	t) %	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	1 100					Silty Clay	
oe: C=Concentrat	tion, D=Depletion, F	RM=Reduced	Matrix, CS=Covered	or Coated	d Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
ric Soil Indica	ators:						Indicators for Problemat	tic Hydric Soils³:
Histosol (A1)			Polyval	ue Belov	v Surface (S8) (	(LRR S, T, U)	1 cm Muck (A9) (LRR (	O)
Histic Epipedon					ice (S9) (LRR S		2 cm Muck (A10) (LRR	( S)
Black Histic (A3	•				lineral (F1) (LR	RR O)		(outside MLRA 150A,B)
Hydrogen Sulfic Stratified Layer:					Matrix (F2)			oils (F19) (LRR P, S, T)
•	s (A6) (LRR P, T, U	1)		ed Matrix	• •			my Soils (F20) (MLRA 153B)
-	ineral (A7) (LRR P,				face (F6)		Red Parent Material (T	·
Muck Presence		, 1, 0)			Surface (F7)		Very Shallow Dark Sur	
1 cm Muck (A9)				•	ons (F8)		Other (Explain in Rema	arks)
	v Dark Surface (A1	11)		10) (LRF		151)		
Thick Dark Surf		/			(F11) (MLRA	•		
	edox (A16) (MLRA	150A)			e Masses (F12)			
	ineral (S1) (LRR O	,			(F13) (LRR P,			of hydrophytic vegetation and
Sandy Gleyed N		, 5,			17) (MLRA 151)		wetland h	ydrology must be present, disturbed or problematic.
Sandy Redox (S					(F18) (MLRA 1		uniess c	ilsturbed of problematic.
Stripped Matrix						9) (MLRA 149A) (530) (MLBA 140A	1520 1520)	
	S7) (LRR P, S, T, U	J)	Anoma	ious Brig	int Loamy Soils	(F20) (MLRA 149A	i, 153C, 153D)	
(-								
trictive Layer	r (If observed):							
Туре:						'	Hydric Soil Present? Yes	S ○ No ●
Depth (inches):								
narks:						I		

Project/Site: Bluewater Terminal SPM P	roject	City/County: San Patricio		Sampling Date:	2/5/2019
Applicant/Owner: Phillips 66 Pipeline, l	_LC	State: T	χ Samı	oling Point:	UPP1027
Investigator(s): B. Bringhurst & A. Osti	rowski	Section, T	ownship, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace, etc.): Fi	at	Local relief (concave, co	nvex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.954153	Long: -97.3	23746	Datum: NAD 83
Soil Map Unit Name: Papalote fine sand	y loam, 0 to 1 percent slopes (PaA	.)	NWI Classification	1: None	
Are climatic/hydrologic conditions on t	the site typical for this time of	year? Yes 💿 No	(If no, expla	ain in Remarks.)	
		•	re "Normal Circums	_	Yes ● No ○
		•	If needed, explain a	-	
-					,
SUMMARY OF FINDINGS — Attach		ig point locations, trans	sects, important i	reatures, etc.	_
Hydrophytic Vegetation Present?	Yes No •	Is the Sa	ımpled Area	Voc.	No •
Hydric Soil Present?	Yes O No •	within a \	Wetland?	Yes 🔾	NO S
Wetland Hydrology Present?	Yes O No •				
Remarks: Hydrophytic vegetation, hydric soil, and w	retland hydrology are not present.	This is not a wetland.			
HYDROLOGY  Westland Hydrology Indicators					
Wetland Hydrology Indicators: Primary Indicators (Minimum of one	required; check all that apply	)	Secondary Ind	icators (Minimum o	of 2 required)
Surface Water (A1)	Aquatic Fauna (	•	_ ′	Vegetated Concave	• •
High Water Table (A2)	Marl Deposits (E	·		e Patterns (B10)	Surface (Bo)
Saturation (A3)	Hydrogen Sulfid			rim Lines (B16)	
Water Marks (B1)	Oxidized Rhizos	pheres along Living Roots (C3		son Water Table (C2)	)
Sediment Deposits (B2)	Presence of Red	duced Iron (C4)	Crayfish	Burrows (C8)	
Drift Deposits (B3)	Recent Iron Rec	duction in Tilled Soils (C6)	Saturati	on Visible on Aerial Iı	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Surfa	ace (C7)	Geomor	phic Position (D2)	
Iron Deposits (B5)	Other (Explain in	n Remarks)		Aquitard (D3)	
Inundation Visible on Aerial Imagery	(B7)			utral Test (D5)	
Water-Stained Leaves (B9)			Sphagn	um moss (D8) (LRR T	·, U)
Field Observations:					
Surface Water Present? Yes	No • Depth (inche				
Water Table Present? Yes  Saturation Present?	No Depth (inche	es):	Mada and Harden	la Da.a	- O N- O
(includes capillary fringe) Yes	No Depth (inche	es):	wetland Hydrol	logy Present? Ye	s ○ No ●
Describe Recorded Data (stream gauge,	monitor well, aerial photos, previou	us inspections), if available:			
Remarks:					

	Absolute % Cover Cover  Dominant Species? Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:
Tree Stratum (Plot Size : 30)		Total Number of Dominant
1		Species Across All Strata: 5 (B
2		Percent of Dominant Species
3 4		That are OBL, FACW, or FAC: 20.0% (A/B)
5		Prevalence Index worksheet:
6		Total % Cover of: Multiply by:
7		OBL species $0 \times 1 = 0$
8.		FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $0 \times 3 = 0$
Sapling or Sapling/Shrub Stratum (Plot Size : 30 )		FACU species $0 \times 4 = 0$
1	0	UPL species $\underline{2}$ x 5 = $\underline{10}$
2		Colum Totals: <u>85</u> (A) <u>355</u> (B)
3		Prevalence Index = B/A= 4.176
4		
5		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is > 50%
8		3 - Prevalence Index is ≤ 3.0¹
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<b>Shrub Stratum</b> (Plot Size : <u>30</u> )		
1		<sup>1</sup> Indicators of hydric soil and wetland
2		hydrology must be present, unless disturbed or
3		
4		Definition of Vegetation Strata:
5		Tree - Woody plants, excluding woody vines,
6	0 = Total Cover	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
### Upon Size : 30 )  1. Zea mays	2 🗸	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
2		than 3 in. (7.6 cm) DBH.
3		Sanling/Shrub Woody plants evaluding vines loss
4		Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5		
6		Shrub - Woody plants, excluding woody vines,
7		approximately 3 to 20 ft (1 to 6 m) in height.
8		Herb - All herbaceous (non-woody) plants, including
9		herbaceous vines, regardless of size, and woody
11		plants, except woody vines, less than approximately
12.		3 ft (1 m) in height.
50% of Total Cover: 1 20% of Total Cover: 0.4	2 = Total Cover	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum (Plot Size : <u>30</u> )		Woody ville - All woody villes, regardless of height.
1		
2		
3		Hydrophytic Vegetation Yes No
4 5	0.0%	Present ?
50% of Total Cover: 0 20% of Total Cover: 0		
Remarks: (If observed, list morphological adaptations below	).	

Sampling Point:

UPP1027

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
Tugo C-Concentrati	on D-Donlotion BM/	-Doduced	Matrix CS-Covered	or Costado	Sand Grains	Alegation DI-Page	Lining M-Matrix	
¹Type: C=Concentration	•	=Keaucea	iviatrix, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore		atic Hydric Soile3:
Hydric Soil Indica	tors:						Indicators for Problema	auc nyaric Soilss:
Histosol (A1)	(42)				Surface (S8) (		1 cm Muck (A9) (LRR	O)
Histic Epipedon (	` ,				ce (S9) (LRR S		2 cm Muck (A10) (LR	R S)
Black Histic (A3)					ineral (F1) (LR	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
Hydrogen Sulfide	` '				latrix (F2)		Piedmont Floodplain	Soils (F19) (LRR P, S, T)
Stratified Layers	, ,			ed Matrix	. ,		Anomalous Bright Loa	amy Soils (F20) (MLRA 153B)
	(A6) (LRR P, T, U)			Dark Surf	` ,		Red Parent Material (	TF2)
	eral (A7) (LRR P, T,	. U)			urface (F7)		Very Shallow Dark Su	rface (TF12)
Muck Presence (				Depressio			Other (Explain in Ren	narks)
1 cm Muck (A9)				10) (LRR				
	Dark Surface (A11)		Deplete	ed Ochric	(F11) (MLRA	151)		
Thick Dark Surfa	• •		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)		
	dox (A16) (MLRA 15		Umbric	Surface (	(F13) (LRR P,	T, U)	3Indicators	of hydrophytic vogotation and
	eral (S1) (LRR O, S)	)	Delta C	chric (F1	7) (MLRA 151)	)		of hydrophytic vegetation and hydrology must be present,
Sandy Gleyed Ma	atrix (S4)		Reduce	ed Vertic (	(F18) (MLRA 1	50A, 150B)		disturbed or problematic.
Sandy Redox (S	5)		Piedmo	nt Floodp	olain Soils (F19	) (MLRA 149A)		
Stripped Matrix (	(S6)		Anoma	lous Brigh	nt Loamy Soils	(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	7) (LRR P, S, T, U)							
Restrictive Layer (	(If observed):							
Type:	(z. observeu).						lydric Soil Present? Ye	ne No 🝙
Depth (inches):						'	iyane son Fresent: Te	ns () No (●)
pepur (menes).								
Remarks:								

Project/Site: Bluewater Ter	minal SPM Project	City/County: San Pat	ricio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips	66 Pipeline, LLC	Stat	e: TX San	npling Point:	UPP1028
Investigator(s): B. Bringhu	ırst & A. Ostrowski	Secti	on, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace	, <b>etc.):</b> Flat	Local relief (concave	, convex, none): Flat		<b>Slope:</b> 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.951271	Long: -97	.315907	Datum: NAD 83
	ia clay 0 to 1 percent slopes (VcA)		NWI Classification		
	, , ,		_		
Are climatic/hydrologic con	ditions on the site typical for this	time of year? Yes •	No (If no, exp	lain in Remarks.)	
Are Vegetation 🗸 , S	Soil 🗸 , or Hydrology	significantly disturbed?	Are "Normal Circur	nstances" present?	Yes 💿 No 🔾
Are Vegetation, S	oil , or Hydrology	naturally problematic?	(If needed, explain	any answers in Rer	narks.)
SUMMARY OF FINDINGS	6 — Attach site map showing s	ampling point locations, t	ransects, important	t features, etc.	
Hydrophytic Vegetation Prese	ent? Yes No	•			
Hydric Soil Present?	Yes O No		e Sampled Area n a Wetland?	Yes C	No •
Wetland Hydrology Present?	Yes O No	•	ira wellana:		
Remarks: Hydrophytic vegetation, hydri  HYDROLOGY	ic soil, and wetland hydrology are not p	oresent. This is not a wetland.			
Wetland Hydrology Indica	ators:				
	num of one required; check all tha	t apply)	Secondary In	dicators (Minimum	of 2 required)
Surface Water (A1)		Fauna (B13)		ely Vegetated Concave	. ,
High Water Table (A2)		posits (B15) (LRR U)		age Patterns (B10)	Surface (Bo)
Saturation (A3)		en Sulfide Odor (C1)		Trim Lines (B16)	
Water Marks (B1)		d Rhizospheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)		e of Reduced Iron (C4)		sh Burrows (C8)	,
Drift Deposits (B3)		Iron Reduction in Tilled Soils (C6)		ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		uck Surface (C7)		orphic Position (D2)	
Iron Deposits (B5)		Explain in Remarks)		w Aquitard (D3)	
Inundation Visible on Ae		,		leutral Test (D5)	
Water-Stained Leaves (B	9)			num moss (D8) (LRR 1	Γ, U)
Field Observations:					
Surface Water Present?	Yes No • Der	oth (inches):			
Water Table Present?		oth (inches):			
Saturation Present?			Wetland Hydr	ology Present? Ye	s O No 💿
(includes capillary fringe)	Yes No Oep	oth (inches):	-		
Describe Recorded Data (str	eam gauge, monitor well, aerial photos	s, previous inspections), if availab	e:		

	Dominant	Dominance Test worksheet:
	Species?	
	Absolute Rel.Strat. Indicator % Cover Cover Status	Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A)
ee Stratum (Plot Size : 30)	Cover	That are Obl., FACW, TO FAC: (A)
	0.0%	Total Number of Dominant
•		Species Across All Strata: (B
		Percent of Dominant Species
		That are OBL, FACW, or FAC: 0.0% (A/I
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
•		OBL species $0 \times 1 = 0$
•		FACW species $0 \times 2 = 0$
	0 = Total Cover	FAC species $0 \times 3 = 0$
ling or Sapling/Shrub Stratum (Plot Size: 30)	0.00	FACU species $2 \times 4 = 8$
		UPL species $0 \times 5 = 0$
		Colum Totals: <u>2</u> (A) <u>10</u> (B
		Prevalence Index = B/A= 5.000
	0	Hydrophytic Vegetation Indicators:
	0	1 - Rapid Test for Hydrophytic Vegetation
	0	2 - Dominance Test is > 50%
		3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
(Dist Cine 200)		Problematic Hydrophytic Vegetation (Explain)
ub Stratum (Plot Size : 30)	0.004	
		<sup>1</sup> Indicators of hydric soil and wetland
		hydrology must be present, unless disturbed or
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines,
	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH)
<b>b Stratum</b> (Plot Size : <u>30</u> )		Sapling - Woody plants, excluding woody vines,
Cvnodon dactvlon	2 🗸100.0% _FACU	approximately 20 ft (6 m) or more in height and less
	00.0%	than 3 in. (7.6 cm) DBH.
	0	Sapling/Shrub - Woody plants, excluding vines, less
	0.0%	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
	0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.
	0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines,
	0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
50% of Total Cover: 1 20% of Total Cover: 0.4	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of Total Cover: 1 20% of Total Cover: 0.4 Ody Vine Stratum (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of Total Cover: 1 20% of Total Cover: 0.4 cody Vine Stratum (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation  Yes No
50% of Total Cover: 1 20% of Total Cover: 0.4  ody Vine Stratum (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic
50% of Total Cover: 1 20% of Total Cover: 0.4	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation  Yes No

Depth Matrix Redox Features								
(inches)	Color (mois	t) %	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	1 100					Silty Clay	
oe: C=Concentrat	tion, D=Depletion, F	RM=Reduced	Matrix, CS=Covered	or Coated	d Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
ric Soil Indica	ators:						Indicators for Problemat	tic Hydric Soils³:
Histosol (A1)			Polyval	ue Belov	v Surface (S8) (	(LRR S, T, U)	1 cm Muck (A9) (LRR (	O)
Histic Epipedon					ice (S9) (LRR S		2 cm Muck (A10) (LRR	( S)
Black Histic (A3	•				lineral (F1) (LR	RR O)		(outside MLRA 150A,B)
Hydrogen Sulfic Stratified Layer:					Matrix (F2)			oils (F19) (LRR P, S, T)
•	s (A6) (LRR P, T, U	1)		ed Matrix	• •			my Soils (F20) (MLRA 153B)
-	ineral (A7) (LRR P,				face (F6)		Red Parent Material (T	·
Muck Presence		, 1, 0)			Surface (F7)		Very Shallow Dark Sur	
1 cm Muck (A9)				•	ons (F8)		Other (Explain in Rema	arks)
	v Dark Surface (A1	11)		10) (LRF		151)		
Thick Dark Surf		/			(F11) (MLRA	•		
	edox (A16) (MLRA	150A)			e Masses (F12)			
	ineral (S1) (LRR O	,			(F13) (LRR P,			of hydrophytic vegetation and
Sandy Gleyed N		, 5,			17) (MLRA 151)		wetland h	ydrology must be present, disturbed or problematic.
Sandy Redox (S					(F18) (MLRA 1		uniess c	ilsturbed of problematic.
Stripped Matrix						9) (MLRA 149A) (530) (MLBA 140A	1520 1520)	
	S7) (LRR P, S, T, U	J)	Anoma	ious Brig	int Loamy Soils	(F20) (MLRA 149A	i, 153C, 153D)	
(-								
trictive Layer	r (If observed):							
Туре:						'	Hydric Soil Present? Yes	S ○ No ●
Depth (inches):								
narks:						I		

Project/Site: Bluewater Ter	minal SPM Project		City/County: San Patr	icio	Sampling Date:	2/5/2019
Applicant/Owner: Phillips	66 Pipeline, LLC		State	e: TX Sar	npling Point:	UPP1029
Investigator(s): B. Bringh	ırst & A. Ostrowski		Section	on, Township, Range:	S N/A T N/A	R N/A
 Landform (hillslope, terrace	, <b>etc.):</b> Flat		Local relief (concave	, convex, none): Flat		Slope: 0 % 0.0 °
Subregion (LRR): LRR T			<b>Lat:</b> 27.94764	Long: -97	.305608	Datum: NAD 83
Soil Map Unit Name: Victor	ia clay 0 to 1 percer	nt slones (VcA)		NWI Classificati		
				_		
Are climatic/hydrologic con			•		olain in Remarks.)	
_	Soil 🗹 , or Hy		nificantly disturbed?	Are "Normal Circur	nstances" present?	Yes • No
Are Vegetation, S	Soil, or Hy	drology nat	urally problematic?	(If needed, explain	any answers in Rer	marks.)
SUMMARY OF FINDINGS	5 – Attach site i	nap showing sampli	ing point locations, t	ransects, important	t features, etc.	
Hydrophytic Vegetation Prese		Yes O No •			·	
Hydric Soil Present?		Yes O No •		Sampled Area	Yes C	No ●
Wetland Hydrology Present?		Yes   No	Within	n a Wetland?		
		165 🥥 110 🔾				
Remarks: Hydrophytic vegetation and h	ydric soil are not pr	esent. This is not a wetlan	nd.			
, , , ,						
HYDROLOGY						
Wetland Hydrology Indica	ators:					
Primary Indicators (Minim	num of one reauir	ed: check all that apply	v)	Secondary In	dicators (Minimum	of 2 required)
Surface Water (A1)	•	Aquatic Fauna	• •		ely Vegetated Concave	. ,
High Water Table (A2)		Marl Deposits			age Patterns (B10)	Surface (Bo)
✓ Saturation (A3)		Hydrogen Sulfi			Trim Lines (B16)	
Water Marks (B1)			ospheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)			educed Iron (C4)		· · · · · · · · · · · · · · · · · · ·	)
Drift Deposits (B3)			eduction in Tilled Soils (C6)		sh Burrows (C8)	mn gom. (CO)
			• •		ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)		Thin Muck Sur	• •		orphic Position (D2)	
Iron Deposits (B5)	(07)	Other (Explain	in Remarks)		w Aquitard (D3)	
Inundation Visible on Ae	5 , , ,				leutral Test (D5)	
Water-Stained Leaves (B	9)			Sphag	num moss (D8) (LRR <sup>-</sup>	T, U)
Field Observations:						
Surface Water Present?		<ul><li>Depth (incl</li></ul>	hes):			
Water Table Present?	Yes O No	Depth (incl	hes):			
Saturation Present? (includes capillary fringe)	Yes   No	Depth (incl	hes): 2	Wetland Hydr	ology Present? Ye	s • No O
		-II 2-1 -1 -1 2				
Describe Recorded Data (str	eam gauge, monitoi	well, aerial photos, previ	ous inspections), if available	e:		
Remarks:						

	Daning at	
	Dominant Species?	Dominance Test worksheet:
	Absolute Rel.Strat. Indicate % Cover Cover Status	
e Stratum (Plot Size : 30)		
	0	Total Number of Dominant Species Across All Strata: (B
		Percent of Dominant Species
200/ of Tabal Causania		
0% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $0 \times 3 = 0$
ing or Sapling/Shrub Stratum (Plot Size : 30 )		FACU species $0 \times 4 = 0$
	0	UPL species $2 \times 5 = 10$
	0.0%	Colum Totals: $2$ (A) $8$ (B
		Dysystems Index D/A
		I FIEVAICHCE THUCK - D/A- 4 HUII
	_	
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
ub Stratum (Plot Size : 30)		
	0.0%	Indicators of hydric soil and wetland
	0	hydrology must be present, unless disturbed or
		_
	0.0%	
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH)
<b>b Stratum</b> (Plot Size : <u>30</u> )		Sapling - Woody plants, excluding woody vines,
_Zea mavs		= 1
	0	
	00.0%	Sapling/Shrub - Woody plants, excluding vines, less
		ornab vvocay planto, excluding vocay vince,
	0   0.0%	
	0.0%	Herb - All herbaceous (non-woody) plants, including
	0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
	0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0 0.0% 0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
	0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
50% of Total Cover: 1 20% of Total Cover: 0.4	0 0.0% 0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
20% of Total Cover: 0.4 Old Vine Stratum (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
0% of Total Cover: 1 20% of Total Cover: 0.4 ody Vine Stratum (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
0% of Total Cover: 1 20% of Total Cover: 0.4 (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
50% of Total Cover: 1 20% of Total Cover: 0.4 ody Vine Stratum (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover  0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic
50% of Total Cover: 1 20% of Total Cover: 0.4 20% of Total Cover: 0.4 (Plot Size : 30)	0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover  0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic
50% of Total Cover: 1 20% of Total Cover: 0.4	0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 = Total Cover  0 0.0% 0 0.0% 0 0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No

Profile Description	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)	% Type¹	Location <sup>2</sup>	Texture	Remarks	
0 - 16	10YR 3/1	100			Silty Clay		
<sup>†</sup> Type: C=Concentrati	on, D=Depletion, RM=R	educed Matrix, CS=Covered	or Coated Sand Grains	. <sup>2</sup> Location: PL=Pore	Lining, M=Matrix.		
Hydric Soil Indica	•	educed manny do covered	or course buria crains	. 2000.01112.7010	Indicators for Problema	atic Hydric Soils³:	
5 cm Mucky Min  Muck Presence (  1 cm Muck (A9)  Depleted Below  Thick Dark Surfa	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, L A8) (LRR U) (LRR P, T) Dark Surface (A11)	Thin Daniel Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete	ue Below Surface (Si ark Surface (S9) (LRI Mucky Mineral (F1) Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) (10) (LRR U) ed Ochric (F11) (MLF anganese Masses (F:	R S, T, U) (LRR O) RA 151) 12) (LRR O, P, T)	Piedmont Floodplain	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (MLRA 153B) TF2) rface (TF12)	
Sandy Gleyed Marix (Stripped Matrix (	5)	Delta C Reduce Piedmo	Ochric (F17) (MLRA 1 ed Vertic (F18) (MLRA ont Floodplain Soils (I	51) A 150A, 150B)	wetland unless	of hydrophytic vegetation and hydrology must be present, disturbed or problematic.	
Restrictive Layer ( Type: Depth (inches):	•			Н	lydric Soil Present? Ye	s No •	
Remarks: ag field							

Project/Site: Bluewater Terminal SPM Project	City/County: San Patricio Sampling Date: 2/5/2019
Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX Sampling Point: UPP1030
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Township, Range: S N/A T N/A R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Flat Slope: 0 % 0.0 °
Subregion (LRR): LRR T	<b>Lat:</b> 27.943299 <b>Long:</b> -97.294254 <b>Datum:</b> NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)	NWI Classification: None
Are climatic/hydrologic conditions on the site typical for this time o	of year? Yes  No (If no, explain in Remarks.)
	pnificantly disturbed? Are "Normal Circumstances" present? Yes ● No Utrally problematic? (If needed, explain any answers in Remarks.)
Are vegetation, soil, or rivulology had	turally problematic: (If needed, explain any answers in Kemarks.)
SUMMARY OF FINDINGS — Attach site map showing sampl	ling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No •	Is the Sampled Area
Hydric Soil Present? Yes No •	within a Wetland?
Wetland Hydrology Present? Yes   No	
Remarks:	
Hydrophytic vegetation and hydric soil are not present. This is not a wetla	ınd.
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required: check all that app	Secondary Indicators (Minimum of 2 required)
Surface Water (A1)	
	(B15) (LRR U) Drainage Patterns (B10)  Ifide Odor (C1) Moss Trim Lines (B16)
	cospheres along Living Roots (C3)  Dry Season Water Table (C2)
	Reduced Iron (C4) Crayfish Burrows (C8)
	Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Su	
	n in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
· ·	Springfram moss (50) (Error 1, 0)
Field Observations:  Surface Water Present? Yes No Depth (inc	ches):
Water Table Present? Yes No Depth (inc	·
Caturation Procent?	Wotland Hydrology Present? Voc  No
(includes capillary fringe)  Yes  No  Depth (includes capillary fringe)	ches):
Describe Recorded Data (stream gauge, monitor well, aerial photos, prev	vious inspections), if available:
Remarks:	

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : <u>30</u> )

20% of Total Cover: 0

20% of Total Cover: 3

(Plot Size : 30 )

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

1.\_\_\_\_

**Herb Stratum** 

50% of Total Cover: 0

2 . Capsella bursa-pastoris

50% of Total Cover: 7.5

**Woody Vine Stratum** 

1.\_\_\_\_\_

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

1 . Parthenium hysterophorus

Dominant Species?

Cover

Absolute % Cover

0

0

0 \_

0

0 0

0

0

0

0

0

0

0

0 0

0

0

0

0 0

0

0

0

0

0

Rel.Strat. Indicator

0.0%

0.0%

0.0% 0.0%

0.0%\_ 0.0%

\_\_\_\_0.0%\_\_\_\_

= Total Cover

0.0%

0.0% 0.0%

0.0% 0.0%

0.0% 0.0%

= Total Cover

0.0% 0.0%

0.0%\_ 0.0%

0.0%

= Total Cover

5 ✓ 33.3% FACU 0.0%\_

0.0%

0.0% 0.0%\_ 0.0%\_ 0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%

0.0%

0.0%

0.0%

= Total Cover

10 ✓ \_\_\_66.7% FAC

0.0%

0.0%

0.0%

Status

Sampling Point:	UPP10	30		
Dominance Test worksheet:				
Number of Dominant Species				
That are OBL, FACW, ro FAC:		0	_	(A)
Total Number of Dominant Species Across All Strata:		1	_	(В
Percent of Dominant Species That are OBL, FACW, or FAC:		0.	0%_	(A/B)
Prevalence Index worksheet:				
Total % Cover of:	Multip	ly by:		
OBL species0	x 1		0	_
FACW species 0	x 2		0	
FAC species 10	x 3		30_	
FACU species 5	x 4		20_	
UPL species0	x 5			
Colum Totals: 2	(A)	_	10_	(B)
Prevalence Index = B/A=			5.000	
Hydrophytic Vegetation Indic	ators		_	
				1)
<sup>1</sup> Indicators of hydric soil an hydrology must be present,			ed or	
hydrology must be present,	unless	disturb	ed or	
hydrology must be present,  Definition of Vegetation	unless Strata	disturb 3:		
Definition of Vegetation Tree - Woody plants, exclude	Strata	disturb a: ody vir	es,	
hydrology must be present,  Definition of Vegetation	Strata Sing wo more i	disturb  a: ody vir n heigh	es, it and (	3 in.
Definition of Vegetation Tree - Woody plants, exclude approximately 20 ft (6 m) or	Strataling wo more iter at bro	disturb  a: ody vir n heigh east he	es, it and ( ight (D vines,	3 in. BH).
Definition of Vegetation Tree - Woody plants, exclude approximately 20 ft (6 m) or (7.6 cm) or larger in diameter.  Sapling - Woody plants, excapproximately 20 ft (6 m) or approximately 20 ft (6 m) or the same of the same	Strataling wo more it at browning more its, exc	a: ody vir n heigh east he woody n heigh	es, it and ( ight (D vines, it and I	3 in. BH). ess
hydrology must be present,  Definition of Vegetation Tree - Woody plants, exclude approximately 20 ft (6 m) or (7.6 cm) or larger in diameter.  Sapling - Woody plants, excapproximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants.	Strataling wo more i er at brown more i ts, exchan 3.2 ding w	ody virn heigheast he woody n heigh	es, it and (ight (D vines, it and I vines, I m) tall. nes,	3 in. BH). ess
hydrology must be present,  Definition of Vegetation Tree - Woody plants, exclude approximately 20 ft (6 m) or (7.6 cm) or larger in diameter.  Sapling - Woody plants, excapproximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plant than 3 in. DBH and greater to Shrub - Woody plants, excluding the same process.	Strataling wo more i er at brother at brother its, exchan 3.2 dding woody) is of size woody) is of size woody)	ody virn heigh woody n heigh uding van heigh plants te, and	es, it and ( ight (D vines, I vines, I m) tall. nes, it. , incluc woody	3 in. BH). ess ess
hydrology must be present,  Definition of Vegetation Tree - Woody plants, exclud approximately 20 ft (6 m) or (7.6 cm) or larger in diameter  Sapling - Woody plants, excapproximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plant than 3 in. DBH and greater than 3 in. TBH and greater than 3 in. T	Strata ling wo more i er at bro- lluding more i ts, exc han 3.2 ding w o 6 m) i woody) is of siz less th	ody virn heigheast he woody n heigh uding van heigh plants te, and an app	es, it and 3 ight (D vines, I vines, I m) tall. nes, it. , includ woody roxima	3 in. BH). ess ess

5	0	Present ?
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
Remarks: (If observed, list morphological adaptations below).		

Profile Description	on: (Describe to the d	lepth needed to docur	ment the indicator of	or confirm the abs	ence of indicators.)	
Depth	Matrix		Redox Features			
(inches)	Color (moist)	6 Color (moist)	% Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1 1	00			Clay	
	•	luced Matrix, CS=Covered	or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore		
Hydric Soil Indica	itors:				Indicators for Problema	<u>atic Hydric Soils³:</u>
5 cm Mucky Mir Muck Presence 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Re Sandy Muck Mir Sandy Gleyed M Sandy Redox (S Stripped Matrix	e (A4) s (A5) (A6) (LRR P, T, U) leral (A7) (LRR P, T, U) (A8) (LRR U) (LRR P, T) Dark Surface (A11) lace (A12) dox (A16) (MLRA 150A) leral (S1) (LRR O, S) latrix (S4)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ue Below Surface (S8) ark Surface (S9) (LRR Mucky Mineral (F1) (L Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) 10) (LRR U) ed Ochric (F11) (MLRA anganese Masses (F12 Surface (F13) (LRR P) Dehric (F17) (MLRA 15 ed Vertic (F18) (MLRA ant Floodplain Soils (F1 lous Bright Loamy Soil	S, T, U) RR O)  151) 2) (LRR O, P, T) 7, T, U) 150A, 150B) 19) (MLRA 149A)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland I unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) Imy Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer Type: Depth (inches):					lydric Soil Present? Ye	s ○ No ●
Remarks: ag field				•		

66 Pipeline, LLC  Irst & A. Ostrowski  , etc.):  Flat  a clay 0 to 1 perce				e: _TX on, Township, Ra	Sampling Point	t:	UPP:	L031	
, etc.): Flat			Section	on, Township, R	ange: SN/A				
					anger 0,	T N/A	R	N/A	
a clay 0 to 1 perce			Local relief (concave,	, convex, none):	 Flat		Slope:	0 %	6 0.0 °
a clay 0 to 1 perce			<b>Lat:</b> 27.942073	Lon	g: -97.290312		Datum:		 NAD 83
	nt clange (\//	-Δ)			ification: None				
	, ,			_	_				
ditions on the sit	e typical fo	or this time of	year? Yes ●	No (If n	o, explain in Rem	arks.)			
ioil 🗸 , or Hy	ydrology	signi	ficantly disturbed?	Are "Normal	Circumstances" p	resent?	Yes	lacksquare	No 🔾
oil 🗌 , or Hy	ydrology	natuı	rally problematic?	(If needed, e	xplain any answe	rs in Ren	narks.)		
6 — Attach site	map shov	ving samplin	ng point locations, tr	ransects, impo	ortant features,	etc.			
nt?	Yes 🔾	No •		0 1 1 4					
	Yes 🔘	No •			l	Yes 🔾	No (	•	
	Yes 🔾	No •							
c soil, and wetland	hydrology a	re not present.	This is not a wetland.						
itors:									
	red: check	all that apply)	)	Second	arv Indicators (M	inimum (	of 2 reauii	red)	
							•	•	
			•		. , ,		Surface (Di	3)	
					=				
		· -		(C3)	•	-	)		
		Presence of Red	luced Iron (C4)		•		,		
		Recent Iron Red	duction in Tilled Soils (C6)		•	-	magery (C9	)	
		Thin Muck Surfa	ace (C7)		Geomorphic Position	n (D2)			
		Other (Explain ir	n Remarks)		Shallow Aquitard (I	03)			
rial Imagery (B7)					FAC-Neutral Test (	D5)			
9)					Sphagnum moss (I	08) (LRR 1	Γ, U)		
			Ī						
Yes O No	$\odot$	Depth (inche	es):						
Yes O No	$\bullet$	Depth (inche	es):						
Yes O No	•			Wetland	l Hydrology Prese	ent? Ye	s O	No	•
eam gauge, monito	or well, aeria	l photos, previou	us inspections), if available	e:					
	ic soil , or Hy  5 – Attach site ent?  ators: num of one require  rial Imagery (B7)  9)  Yes No Yes No	soil , or Hydrology  5 — Attach site map shovent?  Yes Yes Yes Yes Yes ic soil, and wetland hydrology a shorts:  num of one required; check  rial Imagery (B7)  9)  Yes No Yes Yes No Ye	Aquatic Fauna ( Marl Deposits (E Hydrogen Sulfid Oxidized Rhizos Presence of Rec Recent Iron Rec Thin Muck Surfa Other (Explain i	Attach site map showing sampling point locations, to sent?  Yes No Fyes No Fye	Aquatic Fauna (B13)  Arydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Yes No   Depth (inches):  Yes No  Depth (inches):  Yes No  Depth (inches):  Depth (inches):  Yes No  Depth (inches):  Yes No  Depth (inches):  Yes No  Depth (inches):	Secondary Indicators (Moss Trim Lines (B) No Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Presence of Reduced Iron (C4) Caryfish Burrows (C7) Geomorphic Positic (C7) Shallow Aquitard (I Thin Muck Surface (C7) Sha	Soil , or Hydrology naturally problematic? (If needed, explain any answers in Ref 5 – Attach site map showing sampling point locations, transects, important features, etc.    Secondary Indicators (Minimum Wetland?   Pes   No   Persence of Reduced Iron (C4)   Presence of Reduced Iron (C4)   Presence of Reduced Iron (C4)   Recent Iron Reduction in Tilled Soils (C6)   Thin Muck Surface (C7)   Other (Explain in Remarks)   Pack   No   Pepth (inches):   Pes   No   Pes   Pes   No   Pes   Pes	Secondary Indicators (Minimum of 2 required: check all that apply)    Aquatic Fauna (B13)	So - Attach site map showing sampling point locations, transects, important features, etc.    So - Attach site map showing sampling point locations, transects, important features, etc.   So - Attach site map showing sampling point locations, transects, important features, etc.   So - Attach site map showing sampling point locations, transects, important features, etc.   So - Attach site map showing sampling point locations, transects, important features, etc.   So - Attach site map showing sampling point locations, transects, important features, etc.   So - Attach site map showing sampling point locations, transects, important features, etc.   So - Attach site map showing sampling point locations, transects, important features, etc.   Is the Sampled Area within a Wetland?   Secondary Indicators (Minimum of 2 required)   Sparsely Vegetated Concave Surface (B8)   Drainage Patterns (B10)   Moss Trim Lines (B16)   Drainage Patterns (B10

	Dominant	
	Dominant Species? Absolute Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:  1 (A)
e Stratum (Plot Size : 30 )	Cover	That are Obl., FACW, TO FAC: (A)
	0	Total Number of Dominant Species Across All Strata: (B
	0	Species Across All Strata.
	0	Percent of Dominant Species
	0	That are OBL, FACW, or FAC:
		Prevalence Index worksheet:
	0	Total % Cover of: Multiply by:
	0	OBL species $0 \times 1 = 0$
	0	FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $5 \times 3 = 15$
ling or Sapling/Shrub Stratum (Plot Size : 30 )		FACU species $2 \times 4 = 8$
	0.0%	UPL species $2 \times 5 = 10$
	0.0%	Colum Totals: 15 (A) 50 (E
	0.0%	Prevalence Index = B/A= 3.333
	0	
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is > 50%
	0	3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
ub Stratum (Plot Size : 30 )		
		<sup>1</sup> Indicators of hydric soil and wetland
		hydrology must be present, unless disturbed or
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines,
	0	approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH)
<b>b Stratum</b> (Plot Size : <u>30</u> )		Sapling - Woody plants, excluding woody vines,
. Parthenium hysterophorus		approximately 20 ft (6 m) or more in height and less
. Capsella bursa-pastoris		than 3 in. (7.6 cm) DBH.
. Medicago lupulina		Sapling/Shrub - Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1m) tall.
		, ,
		Shrub - Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 6 m) in height.
		Hart All barbarra (Array 12)
		Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately
		3 ft (1 m) in height.
-		
50% of Total Cover: 4.5 20% of Total Cover: 1.8	9 = Total Cover	Woody vine - All woody vines, regardless of height.
ody Vine Stratum (Plot Size : 30)		
		Hydrophytic
		Vegetation Yes No Present ?
	00.0%	
•	0 = Total Cover	

Profile Description	on: (Describe to the dept	h needed to docu	ment the indicator o	r confirm the abso	ence of indicators.)	
Depth (in all a c)	Matrix		Redox Features			
(inches)	Color (moist) %	Color (moist)		Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1 100				Silty Clay	
	ion, D=Depletion, RM=Reduce	d Matrix, CS=Covered	or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore		
Hydric Soil Indica	ators:				Indicators for Problema	atic Hydric Soils <sup>3</sup> :
5 cm Mucky Mir Muck Presence 1 cm Muck (A9) Depleted Below Thick Dark Surfa Coast Prairie Re Sandy Muck Mir Sandy Gleyed M Sandy Redox (S Stripped Matrix	de (A4) de (A4) de (A5) (A6) (LRR P, T, U) deral (A7) (LRR P, T, U) (A8) (LRR U) deral (A7) (LRR P, T) Dark Surface (A11) dece (A12) dox (A16) (MLRA 150A) deral (S1) (LRR O, S) latrix (S4)	Thin Dalta C	ue Below Surface (58) ark Surface (59) (LRR S Mucky Mineral (F1) (LF Gleyed Matrix (F2) ed Matrix (F3) Dark Surface (F6) ed Dark Surface (F7) Depressions (F8) E10) (LRR U) ed Ochric (F11) (MLRA anganese Masses (F12) E Surface (F13) (LRR P, Dehric (F17) (MLRA 151) ed Vertic (F18) (MLRA 151)	5, T, U) RR O)  151) 1 (LRR O, P, T) T, U) 1, 50A, 150B) 9) (MLRA 149A)	Piedmont Floodplain: Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Ren  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (MLRA 153B) TF2) rrface (TF12)
Restrictive Layer Type: Depth (inches):	(If observed):				lydric Soil Present? Ye	≥s No •
Remarks: ag field						

Project/Site: Bluewater Termina	al SPM Project	City/County: San Patricio	Sampling Date	e: 2/5/2019
Applicant/Owner: Phillips 66 Pi	peline, LLC	State: TX	Sampling Point:	UPP1032
Investigator(s): B. Bringhurst 8	ያ A. Ostrowski	Section, To	wnship, Range: S N/A T N/	/A <b>R</b> N/A
Landform (hillslope, terrace, etc	<b>:_):</b> Flat	Local relief (concave, conv	rex, none): Flat	Slope: 1 % 0.6 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.941792	Long: -97.290441	Datum: NAD 83
Soil Map Unit Name: Victoria cla	ay 0 to 1 percent slopes (VcA)		NWI Classification: None	
Are climatic/hydrologic conditio	ons on the site typical for this time of	year? Yes 💿 No	(If no, explain in Remarks.)	
Are Vegetation, Soil		•	"Normal Circumstances" present	
Are Vegetation , Soil		•	needed, explain any answers in R	0 0
Are regention		rany problemade. (1)	necees, explain any answers in it	.cmarkor)
SUMMARY OF FINDINGS –	Attach site map showing sampli	ng point locations, transe	ects, important features, etc.	
Hydrophytic Vegetation Present?	Yes O No •	Is the Sam	nnled Area	
Hydric Soil Present?	Yes O No 🗨	within a W		○ No •
Wetland Hydrology Present?	Yes ○ No ●			
Remarks:	The second second based of the second second	This is not a contract		
Hydrophytic vegetation, hydric so	il, and wetland hydrology are not present.	This is not a wetland.		
HYDROLOGY				
Wetland Hydrology Indicators	 s:			
·	of one required: check all that apply	<b>/</b> )	Secondary Indicators (Minimur	n of 2 required)
Surface Water (A1)	Aquatic Fauna	<del>-</del>	Sparsely Vegetated Conca	. ,
High Water Table (A2)	Marl Deposits (		Drainage Patterns (B10)	re surrace (50)
Saturation (A3)	Hydrogen Sulfic	de Odor (C1)	Moss Trim Lines (B16)	
Water Marks (B1)	Oxidized Rhizo	spheres along Living Roots (C3)	Dry Season Water Table (	C2)
Sediment Deposits (B2)	Presence of Re	duced Iron (C4)	Crayfish Burrows (C8)	•
Drift Deposits (B3)	Recent Iron Re	duction in Tilled Soils (C6)	Saturation Visible on Aeria	ıl Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surf	ace (C7)	Geomorphic Position (D2)	
Iron Deposits (B5)	Other (Explain	in Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Aerial I	magery (B7)		FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LR	R T, U)
Field Observations:				
Surface Water Present? Ye	s O No O Depth (inch	nes):		
Water Table Present? Ye	s O No O Depth (inch	nes):		
Saturation Present? (includes capillary fringe) Ye	s No • Depth (inch	nes):	Wetland Hydrology Present?	Yes O No 💿
(melades capillary milige)				
Describe Recorded Data (stream	gauge, monitor well, aerial photos, previo	ous inspections), if available:		
Remarks:				

	Dandana	
	Dominant Species?	Dominance Test worksheet:
	Absolute Relistrat Indicato	· · · · · · · · · · · · · · · · · · ·
	% Cover Cover Status	That are OBL, FACW, ro FAC: (A)
e Stratum (Plot Size : 30)	_	T. IV. 1. (D. ).
	0	Species Across All Strata.
		Percent of Dominant Species
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $5 \times 3 = 15$
oling or Sapling/Shrub Stratum (Plot Size : 30 )		FACU species $23 \times 4 = 92$
	0.0%	UPL species $55 \times 5 = 275$
		Colum Totals: 9 (A) 33 (B)
		rievalence index – b/A– 3 hh/
	0.0%	3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Ē		
	0	
•	0 0.0%	Definition of Vegetation Strata:
	0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines,
	0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
	0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines,
	0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
•	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
b Stratum (Plot Size : 30 ) Medicago lupulina Capsella bursa-pastoris	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover 45 ✓ 54.2% UPL 20 ✓ 24.1% FACU	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
b Stratum (Plot Size : 30) Medicado lupulina Capsella bursa-pastoris Malva parviflora	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less
b Stratum Pedicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Description:  D	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
. Solve of Total Cover: 0 20% of Total Cover: 0  The Stratum (Plot Size : 30)  Medicago lupulina  Capsella bursa-pastoris  Malva parviflora  Parthenium hysterophorus  Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines,
b Stratum (Plot Size : 30) Medicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
b Stratum (Plot Size : 30 ) Medicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
b Stratum (Plot Size : 30 ) Medicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately.
Description:  D	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ▼ 54.2% UPL 20 ▼ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately.
s	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Description:  D	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH)  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
b Stratum (Plot Size : 30 )  Medicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
b Stratum (Plot Size : 30 )  Medicado lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
b Stratum (Plot Size : 30)  Medicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale  Company of Total Cover: 42 20% of Total Cover: 17	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
b Stratum (Plot Size : 30 )  Medicago lupulina Capsella bursa-pastoris Malva parviflora Parthenium hysterophorus Taraxacum officinale	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No
rb Stratum (Plot Size : 30 )  rb Stratum (Plot Size : 30 )  Medicago lupulina  Capsella bursa-pastoris  Malva parviflora Parthenium hysterophorus  Taraxacum officinale  Solution  (Plot Size : 30 )  (Plot Size : 30 )  (Plot Size : 30 )	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
arb Stratum (Plot Size : 30 )  1. Medicago lupulina  2. Capsella bursa-pastoris  3. Malva parviflora  4. Parthenium hysterophorus  5. Taraxacum officinale  6	0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 = Total Cover  45 ✓ 54.2% UPL 20 ✓ 24.1% FACU 10 12.0% UPL 5 6.0% FAC 3 3.6% FACU 0 0.0%	Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Features									
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe1	Location <sup>2</sup>	Texture	Remarks	
0 - 16	10YR 3/1	100					Silty Clay		
<sup>†</sup> Type: C=Concentratio	on, D=Depletion, RM=	-Reduced	Matrix, CS=Covered (	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.		
Hydric Soil Indica	tors:						Indicators for Problema	ntic Hydric Soils³:	
5 cm Mucky Min  Muck Presence ( 1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Ma  Sandy Redox (St  Stripped Matrix (	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ice (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	50A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix Dark Surface Depressio 10) (LRR ed Ochric anganese Surface ( chric (F1: dd Vertic ( int Floodp	ace (F6) urface (F7) ons (F8) U) (F11) (MLRA 1 Masses (F12) (F13) (LRR P, - 7) (MLRA 151) (F18) (MLRA 1:	.T, U) R O) .51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) amy Soils (F20) (MLRA 153B) TF2) rface (TF12)	
Restrictive Layer (If observed):  Type:  Depth (inches):						H	Hydric Soil Present? Yes ○ No ●		
Remarks:									

City/County: San Patricio

Sampling Date:

2/5/2019

Applicant/Owner: Phillips 66 Pipeline, LLC	State	: TX	Sampling Point:	UPP1033						
Investigator(s): B. Bringhurst & A. Ostrowski	Sectio	on, Township, Rai	nge: S N/A T N	N/A <b>R</b> N/A						
Landform (hillslope, terrace, etc.): Flat	Local relief (concave,	convex, none):	Flat	Slope: 1 % 0.6 °						
Subregion (LRR): LRR T	 <b>Lat:</b> 27.938251	Long	<b>:</b> -97.279783	Datum: NAD 83						
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)		NWI Classifi	ication: None							
	wo of year? Yes	No (If no	ovelsie in Boussike	`						
Are climatic/hydrologic conditions on the site typical for this ti	•		, explain in Remarks.	-						
Are Vegetation  , Soil  , or Hydrology	significantly disturbed?		ircumstances" presen	100 0 110 0						
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, ex	plain any answers in	Remarks.)						
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegetation Present? Yes No										
Hydric Soil Present? Yes No		Sampled Area a wetland?	Yes	O No •						
Wetland Hydrology Present? Yes No	)	ra Welland:								
Remarks:										
Hydrophytic vegetation and hydric soil are not present. This is not a v	etland.									
HYDROLOGY										
Wetland Hydrology Indicators:										
Primary Indicators (Minimum of one required; check all that	apply)	Seconda	ry Indicators (Minimu	um of 2 required)						
✓ Surface Water (A1) Aquatic F	auna (B13)		Sparsely Vegetated Conc	ave Surface (B8)						
	osits (B15) (LRR U)		Prainage Patterns (B10)	are carrace (50)						
	Sulfide Odor (C1)		loss Trim Lines (B16)							
	Rhizospheres along Living Roots		Ory Season Water Table	(C2)						
	of Reduced Iron (C4)									
	on Reduction in Tilled Soils (C6)									
	k Surface (C7)	Geomorphic Position (D2)								
	plain in Remarks)									
Inundation Visible on Aerial Imagery (B7)	plant in recination	FAC-Neutral Test (D5)								
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)								
· ·			priagnam mess (56) (Ei							
Field Observations:										
	n (inches): 1									
·	n (inches):			0 0						
Saturation Present? (includes capillary fringe) Yes No Depti	n (inches):	Wetland I	Hydrology Present?	Yes • No ·						
Describe Recorded Data (stream gauge, monitor well, aerial photos,	previous inspections), if available	<u>:</u>								
gauge, memor real, acres proces,	, , , , , , , , , , , , , , , , , , ,									
Remarks:										

**Project/Site:** Bluewater Terminal SPM Project

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 . Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0\_\_\_

0

0\_

0 \_

0

0\_\_\_ 0

0 0

0

0

0

0

0

0

0

0

0

0

0

0

0

0 0

0

0

0

0

0 0 Rel.Strat. Indicator

0.0%

0.0%

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0%\_ 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0% 0.0%

0.0%

0.0%\_

\_\_\_0.0%\_

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%

0.0% 0.0% 0.0%\_ \_ 0.0%\_

0.0%

0.0%\_ 0.0%

0.0%\_ \_

0.0%

0.0%

0.0% 0.0%

\_\_\_0.0%\_\_\_

= Total Cover

= Total Cover

0.0%

0.0%

Status

Sampling Point: UPP1033
Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, ro FAC:
Total Number of Dominant Species Across All Strata: (B
Percent of Dominant Species That are OBL, FACW, or FAC:  0.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species $0 \times 1 = 0$
FACW species $0 \times 2 = 0$
FAC species $0 \times 3 = 0$
FACU species $2 \times 4 = 8$
UPL species $0 \times 5 = 0$
Colum Totals: $83$ (A) $382$ (B)
Prevalence Index = B/A= 4.602
Hydrophytic Vegetation Indicators:
3 - Prevalence Index is ≤ 3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or
Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Woody vine - All woody vines, regardless of height.
Hydrophytic Vegetation Present ?

Domorka	/If absorted	list morphological	adaptations below)

Profile Descriptio	n: (Describe to th	e depth r	needed to docui	nent the	indicator or	confirm the abs	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u> </u>	Color (moist)	<u></u>	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
¹Type: C=Concentratio  Hydric Soil Indicat  Histosol (A1)	tors:	Reduced M	Polyval	ue Below	Surface (S8) (I		Lining, M=Matrix.  Indicators for Problema  1 cm Muck (A9) (LRR	-
Histic Epipedon (	(A2)				e (S9) (LRR S,		2 cm Muck (A10) (LR	RS)
Black Histic (A3)	(04)				neral (F1) (LRF	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
<ul><li>Hydrogen Sulfide</li><li>Stratified Layers</li></ul>	• •			Gleyed M				Soils (F19) (LRR P, S, T)
	(A3) A6) (LRR P, T, U)			ed Matrix ( Dark Surfa				my Soils (F20) (MLRA 153B)
	eral (A7) (LRR P, T,	U)			ırface (F7)		Red Parent Material (	•
Muck Presence (		-,		Depressio	, ,		Very Shallow Dark Su	
1 cm Muck (A9)				10) (LRR	. ,		Other (Explain in Rem	aarks)
Depleted Below I	Dark Surface (A11)				(F11) (MLRA 1	.51)		
Thick Dark Surfa	ce (A12)				Masses (F12)	•		
Coast Prairie Rec	lox (A16) (MLRA 15	0A)			F13) (LRR P, T			
Sandy Muck Mine	eral (S1) (LRR O, S)				') (MLRA 151)			of hydrophytic vegetation and
Sandy Gleyed Ma	atrix (S4)				=18) (MLRA 15			nydrology must be present, disturbed or problematic.
Sandy Redox (S5	5)					) (MLRA 149A)		·
Stripped Matrix (	S6)					(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	) (LRR P, S, T, U)			_	•	. , ,	,	
Restrictive Layer ( Type: Depth (inches):	•					— Н	lydric Soil Present? Ye	s No •
Remarks: ag field								

Project/Site: Bluewater Terminal SPM Project	City/County: San Patricio Sampling Date: 2/5/2019
Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX Sampling Point: UPP1034
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Township, Range: S N/A T N/A R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Flat Slope: 0 % 0.0 °
Subregion (LRR): LRR T	Lat: 27.935239 Long: -97.271985 Datum: NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)	NWI Classification: None
Are climatic/hydrologic conditions on the site typical for this time of y	year? Yes  No (If no, explain in Remarks.)
Are Vegetation 🗸 , Soil 🗸 , or Hydrology 🗌 signif	ficantly disturbed? Are "Normal Circumstances" present? Yes   No
Are Vegetation , Soil , or Hydrology natur	ally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing samplin	g point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	<b>5</b>
Hydric Soil Present?  Yes No •	Is the Sampled Area  Yes No   No
	within a Wetland?
Remarks: Hydrophytic vegetation, hydric soil, and wetland hydrology are not present.	This is not a wetland.
Trydrophydic vegetadon, ffydrie 3011, and wedding ffydrology are not present.	THIS IS NOT A WEGANA.
HYDROLOCY	
HYDROLOGY	
Wetland Hydrology Indicators:	C
Primary Indicators (Minimum of one required; check all that apply)	
Surface Water (A1) Aquatic Fauna (E	
High Water Table (A2)  Marl Deposits (B	
Saturation (A3) Hydrogen Sulfide	
	oheres along Living Roots (C3)  Dry Season Water Table (C2)
Sediment Deposits (B2)  Presence of Red	
	uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface	
☐ Iron Deposits (B5) ☐ Other (Explain in	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inche	es):
Water Table Present? Yes No • Depth (inche	es):
Saturation Present?  (includes capillary frings)  Yes No   Depth (inche)	Wetland Hydrology Present? Yes No •
(includes capillary fringe) Yes No Depth (inche	
Describe Recorded Data (stream gauge, monitor well, aerial photos, previou	is inspections), if available:
Remarks:	

		plants.	
	Abaaluka	Dominant Species?	Dominance Test worksheet:
	Absolute % Cover	Rel.Strat. Indicator Cover Status	Number of Dominant Species That are OBL, FACW, ro FAC:
e Stratum (Plot Size			Takal Ni wakay of Daminank
	0		Total Number of Dominant Species Across All Strata:1 (B
	0		
	0	0.0%_	Percent of Dominant Species
	0	0.0%	That are OBL, FACW, or FAC:
	0	0.0%	Prevalence Index worksheet:
	0	0.0%	Total % Cover of: Multiply by:
		0.0%	OBL species $0 \times 1 = 0$
	0	0.0%	FACW species $0 \times 2 = 0$
0% of Total Cover: 0 20% of Total Cov	rer: 0 0	= Total Cover	FAC species $0 \times 3 = 0$
ing or Sapling/Shrub Stratum (Plot Size	20.)		FACU species $2 \times 4 = 8$
		0.0%	UPL species $0 \times 5 = 0$
		0.0%	Colum Totals: 2 (A) 8 (B
			Prevalence Index = B/A= 4.000
		0.0%	Hydronbytic Vocatation Indicators
			Hydrophytic Vegetation Indicators:
			1 - Rapid Test for Hydrophytic Vegetation
	0	0.0%	2 - Dominance Test is > 50%
	0	0.0%_	3 - Prevalence Index is ≤ 3.01
0% of Total Cover: 0 20% of Total Cov	rer: 0 0	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
o Stratum (Plot Size			
	0	0.0%_	<sup>1</sup> Indicators of hydric soil and wetland
	0	0.0%_	hydrology must be present, unless disturbed or
	0	0.0%	
	0	0.0%	Definition of Vegetation Strata:
	0	0.0%	Tree - Woody plants, excluding woody vines,
	0	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
0% of Total Cover: 0 20% of Total Cov			(7.6 cm) or larger in diameter at breast height (DBH).
	ver: 0 0	= Total Cover	(1.10 0.11) 01 101 901 111 010101 011 010101 11019 110 (2.211)
Stratum (Plot Size		= Total Cover	
	e: <u>30</u> )		Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Cvnodon dactvlon	2:30)	✓ _100.0%FACU	Sapling - Woody plants, excluding woody vines,
Cvnodon dactvlon	2 0	✓ _100.0% _FACU	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Cvnodon dactvlon	2 0 0	✓ 100.0% FACU  0.0%  0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less
Cvnodon dactvlon	2 0 0 0	✓ 100.0% FACU  0.0%  0.0%  0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Cvnodon dactvlon	2 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Cvnodon dactvlon	2:30) 20 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines,
Cvnodon dactvlon	2:30) 2 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Cvnodon dactvlon	2 0 0 0 0 0 0 0	✓ 100.0% FACU  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Cvnodon dactvlon	2 0 0 0 0 0 0 0 0	✓ 100.0% FACU  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%  0.0%	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines,
Cvnodon dactvlon	2 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
Cvnodon dactvlon	2 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
Cvnodon dactvlon	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Cvnodon dactvlon	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately
Cvnodon dactvlon  20% of Total Cover: 1 20% of Total Cov	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Cvnodon dactvlon  0% of Total Cover: 1 20% of Total Covery (Plot Size)	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Cvnodon dactvlon  % of Total Cover: 1 20% of Total Cov dy Vine Stratum (Plot Size	2:30) 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Cvnodon dactvlon  0% of Total Cover: 1 20% of Total Cov  dy Vine Stratum (Plot Size	2: 30 )  2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
Cvnodon dactvlon  Ow of Total Cover: 1 20% of Total Cov  dy Vine Stratum (Plot Size	2: 30 ) 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No
Cvnodon dactvlon  0% of Total Cover: 1 20% of Total Coverdy Vine Stratum (Plot Size	2: 30 )  2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.
Cvnodon dactvlon	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	✓ 100.0% FACU 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.  Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.  Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.  Woody vine - All woody vines, regardless of height.  Hydrophytic Vegetation Yes No

Profile Descriptio	n: (Describe to th	e depth r	needed to docui	nent the	indicator or	confirm the abs	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u> </u>	Color (moist)	<u></u>	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
¹Type: C=Concentratio  Hydric Soil Indicat  Histosol (A1)	tors:	Reduced M	Polyval	ue Below	Surface (S8) (I		Lining, M=Matrix.  Indicators for Problema  1 cm Muck (A9) (LRR	-
Histic Epipedon (	(A2)				e (S9) (LRR S,		2 cm Muck (A10) (LR	RS)
Black Histic (A3)	(04)				neral (F1) (LRF	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
<ul><li>Hydrogen Sulfide</li><li>Stratified Layers</li></ul>	• •			Gleyed M				Soils (F19) (LRR P, S, T)
	(A3) A6) (LRR P, T, U)			ed Matrix ( Dark Surfa				my Soils (F20) (MLRA 153B)
	eral (A7) (LRR P, T,	U)			ırface (F7)		Red Parent Material (	•
Muck Presence (		-,		Depressio	, ,		Very Shallow Dark Su	
1 cm Muck (A9)				10) (LRR	. ,		Other (Explain in Rem	aarks)
Depleted Below I	Dark Surface (A11)				(F11) (MLRA 1	.51)		
Thick Dark Surfa	ce (A12)				Masses (F12)	•		
Coast Prairie Rec	lox (A16) (MLRA 15	0A)			F13) (LRR P, T			
Sandy Muck Mine	eral (S1) (LRR O, S)				') (MLRA 151)			of hydrophytic vegetation and
Sandy Gleyed Ma	atrix (S4)				=18) (MLRA 15			nydrology must be present, disturbed or problematic.
Sandy Redox (S5	5)					) (MLRA 149A)		·
Stripped Matrix (	S6)					(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	) (LRR P, S, T, U)			_	•	. , ,	,	
Restrictive Layer ( Type: Depth (inches):	•					— Н	lydric Soil Present? Ye	s No •
Remarks: ag field								

City/County: San Patricio

Applicant/Owner: Phillips 66 Pipeline, LLC		State: TX	Sampling Point:	UPP1035
Investigator(s): B. Bringhurst & A. Ostrowski		Section, Township, R	ange: S N/A T	N/A <b>R</b> N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (co	ncave, convex, none):	Convex	Slope: 1 % 0.6 °
Subregion (LRR): LRR T		2 <b>Lon</b>	g: -97.268763	Datum: NAD 83
Soil Map Unit Name: Banquete clay, 0 to 1 percent slopes	(Ec)	NWI Class	ification: None	
Are climatic/hydrologic conditions on the site typical fo	r this time of year? Yes		o, explain in Remark	rs )
Are Vegetation ☐ , Soil ✓ , or Hydrology	significantly disturbe		Circumstances" pres	
	naturally problematic		-	
Are Vegetation, Soil, or Hydrology	naturally problemation	er (11 needed, e	xplain any answers i	n kemarks.)
SUMMARY OF FINDINGS — Attach site map show	ring sampling point location	ons, transects, impo	ortant features, et	С.
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes	No •	Is the Sampled Area within a Wetland?	Υe	es O No •
Wetland Hydrology Present? Yes	No •	a vi oliana		
Remarks:	•			
Hydrophytic vegetation, hydric soil, and wetland hydrology a	re not present. This is not a wetla	nd.		
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (Minimum of one required; check	all that apply)	Second	ary Indicators (Minin	num of 2 required)
Surface Water (A1)	Aquatic Fauna (B13)		Sparsely Vegetated Co	ncave Surface (B8)
	Marl Deposits (B15) (LRR U)		Drainage Patterns (B10	))
	Hydrogen Sulfide Odor (C1)		Moss Trim Lines (B16)	
	Oxidized Rhizospheres along Living	Roots (C3)	Dry Season Water Tabl	le (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)		Crayfish Burrows (C8)	
Drift Deposits (B3)	Recent Iron Reduction in Tilled So	ls (C6)	Saturation Visible on A	erial Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Geomorphic Position (I	D2)
Iron Deposits (B5)	Other (Explain in Remarks)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum moss (D8)	(LRR T, U)
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
Saturation Present?  (includes capillary frings) Yes No	Depth (inches):	Wetland	l Hydrology Present?	Yes No •
(includes capillary fringe)	Deput (inches).			
Describe Recorded Data (stream gauge, monitor well, aerial	photos, previous inspections), if a	available:		
Remarks:				

**Project/Site:** Bluewater Terminal SPM Project

Sampling Date:

2/6/2019

Dominance Test worksheet:		1035	i	
Number of Dominant Species That are OBL, FACW, ro FAC:			0	(A)
Total Number of Dominant			1	(B
Species Across All Strata: Percent of Dominant Species		_		(D
That are OBL, FACW, or FAC:		-	0.0%	(A/B
Prevalence Index worksheet:				
Total % Cover of:		iply	by: C	
OBL species 0  FACW species 0		1 = 2 =		_
FACW species 0 FAC species 15		2 = 3 =	45	_
FACU species 45		4 =	180	)
UPL species 53	x	5 =	265	5
Colum Totals: 2	(A)	)		(B)
Prevalence Index = B/A=			4.00	0_
Hydrophytic Vegetation Indic	ators	:		
1 - Rapid Test for Hydrop	hytic	Vea	etation	
2 - Dominance Test is > 5	•	- 3		
3 - Prevalence Index is ≤	3.01			
Problematic Hydrophytic	Vege	tatio	n¹ (Expl	lain)
Definition of Vegetation	Stra	ta:		
Tree - Woody plants, exclude approximately 20 ft (6 m) or (7.6 cm) or larger in diameter	ling w more	ood in h	eight ar	
		a wo	odv vine	20
Sapling - Woody plants, excapproximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH.				
approximately 20 ft (6 m) or	more	in h	eight ar ling vine	nd less s, less
approximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plan	more ts, ex han 3	in h	neight ar ling vine ft (1m) t	nd less s, less all.
approximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH. Sapling/Shrub - Woody plan than 3 in. DBH and greater t Shrub - Woody plants, exclu	ts, ex han 3 ding o 6 m	clud 3.28 woo ) in h	neight ar ling vine ft (1m) t dy vines neight. ants, inc and woo	s, less all.
approximately 20 ft (6 m) or than 3 in. (7.6 cm) DBH.  Sapling/Shrub - Woody plant than 3 in. DBH and greater than 3 in. DBH and greater than 3 to 20 ft (1 to 4 december 20 ft). Herb - All herbaceous (non-herbaceous vines, regardles plants, except woody vines,	ts, ex han 3 ding o 6 m woody s of s less t	in h cclud 3.28 woo ) in h y) pl size, han	ing vine ft (1m) t dy vines neight. ants, inc and woo approxii	s, less all. , cluding ody mately

<u>Tree Stratum</u> (Plot Size : <u>30</u> )		
1	0.0%	Total Number of Dominant
2	0.0%	Species Across All Strata: 1 (B
3	0.0%	Percent of Dominant Species
4	0.0%	That are OBL, FACW, or FAC: 0.0% (A/B)
	0 0.0%	
5		Prevalence Index worksheet:
6	0.0%	Total % Cover of: Multiply by:
7	0	OBL species $0 \times 1 = 0$
8	0	FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $15 \times 3 = 45$
Sapling or Sapling/Shrub Stratum (Plot Size : 30 )		FACU species 45 x 4 = 180
1.	0	UPL species $53 \times 5 = 265$
2.	0.0%	Colum Totals: 2 (A) 8 (B)
3.		
4		Prevalence Index = B/A= 4.000
5.	0 0.0%	Hydrophytic Vegetation Indicators:
6	0.0%	1 - Rapid Test for Hydrophytic Vegetation
7	0.0%	2 - Dominance Test is > 50%
8		3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Shrub Stratum (Plot Size : 30)		
1 . Vachellia farnesiana	10 🗸76.9% _FACU	<sup>1</sup> Indicators of hydric soil and wetland
2 . Prosopis alandulosa	3 🗸23.1%UPL	hydrology must be present, unless disturbed or
3	0.0%	
4.	0	Definition of Vegetation Strata:
5.	0.0%	Tree - Woody plants, excluding woody vines,
6	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 6.5 20% of Total Cover: 2.6	13 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).
Herb Stratum (Plot Size : 30)		Sapling - Woody plants, excluding woody vines,
1Bothriochloa ischaemum var. songarica	40.0% UPL	approximately 20 ft (6 m) or more in height and less
2Cvnodon dactvlon	20_ 🗹20.0%FACU	than 3 in. (7.6 cm) DBH.
3 Dichanthium aristatum	1515.0%FACU	Conline (Charle Mandy plants avaluding vines less
4Andropogon gerardii	15	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
5 . Medicago lupulina	<u>5</u>	than 6 m BBH and groater than 6125 it (1111) tain
6 . Geranium carolinianum	5 <u>5.0%</u> UPL	Shrub - Woody plants, excluding woody vines,
7	0	approximately 3 to 20 ft (1 to 6 m) in height.
8	00.0%	
9	0	Herb - All herbaceous (non-woody) plants, including
10.	0.0%	herbaceous vines, regardless of size, and woody
11.	0.0%	plants, except woody vines, less than approximately 3 ft (1 m) in height.
12	0.0%	on (1 m) in neight.
50% of Total Cover: 50 20% of Total Cover: 20	100 = Total Cover	Woody vine - All woody vines, regardless of height.
		vvoody virie - All woody viries, regardless of fielgfit.
Woody Vine Stratum (Plot Size : 30)	0 000	
1	0.0%	
2	0	
3	0	Hydrophytic
4	0	Vegetation Yes No • Present ?
5	0	resent:
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
Remarks: (If observed, list morphological adaptations below).		•
*Indicator suffix = National status or professional decision assigned becau	use Regional status not defined by FWS.	

Dominant Species? Rel.Strat.

Cover

Status

Absolute % Cover

Histosol (A1)  Polyvalue Below Surface (S8) (LRR S, T, U)  1 cm Muck (A2)  Thin Dark Surface (S9) (LRR S, T, U)  2 cm Muck (Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR O)  Reduced Ve  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F2)  Piedmont Fle  Stratified Layers (A5)  Depleted Matrix (F3)  Anomalous I  Red Parent I  S cm Mucky Mineral (A7) (LRR P, T, U)  Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Dark Surface (F7)  Marl (F10) (LRR U)  Depleted Below Dark Surface (A12)  Thick Dark Surface (A16) (MLRA 150A)  Sandy Muck Mineral (S1) (LRR O, S)  Delta Ochric (F17) (MLRA 151)	A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
Appe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    **Juncation: PL=Pore Lining, M=Matrix.**  **Indicators for F  **Histosol (A1)	Problematic Hydric Soils <sup>3</sup> : A9) (LRR O) A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
dric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Drhin Dark Surface (S9) (LRR S, T, U)  Histic Epipedon (A2)  Drhin Dark Surface (S9) (LRR S, T, U)  Drepleted Matrix (F2)  Drepleted Matrix (F2)  Drepleted Matrix (F3)  Drepleted Matrix (F3)  Drepleted Dark Surface (F6)  Drepleted Dark Surface (F7)  Muck Presence (A8) (LRR V, T, U)  Drepleted Below Dark Surface (A11)  Drepleted Dark Surface (F1) (MLRA 151)  Drepleted Below Dark Surface (A12)  Drepleted Ochric (F13) (LRR V, T, U)  Sandy Muck Mineral (S1) (LRR O, S)  Drepletad Dark Surface (F13) (LRR O, T, U)  Drepleted Dark Surface (F13) (LRR O, T, U)  Drepleted Dark Surface (F13) (LRR O, T, U)  Drepleted Dark Surface (F13) (LRR O, T, T)  Drepleted Dark Surface (F13) (LRR O, T, T)	A9) (LRR O) A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
Histosol (A1)  Histosol (A2)  Polyvalue Below Surface (S8) (LRR S, T, U)  Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR S, T, U)  Loamy Mucky Mineral (F1) (LRR O)  Reduced Ve  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Depleted Matrix (F3)  Anomalous I  Redox Dark Surface (F6)  Red Parent I  Stratified Layers (A7) (LRR P, T, U)  Redox Dark Surface (F7)  Wery Shallov  Muck Presence (A8) (LRR U)  Redox Depressions (F8)  Other (Explain Mark (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Muck Mineral (S1) (LRR O, S)  Delta Ochric (F17) (MLRA 151)	A9) (LRR O) A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
Histosol (A1)  Polyvalue Below Surface (S8) (LRR S, T, U)  1 cm Muck (Mistic Epipedon (A2)  Thin Dark Surface (S9) (LRR S, T, U)  2 cm Muck (Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR O)  Reduced Ve  Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Piedmont Flo  Stratified Layers (A5)  Depleted Matrix (F3)  Anomalous I  Organic Bodies (A6) (LRR P, T, U)  Redox Dark Surface (F6)  Red Parent I  5 cm Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F7)  Wery Shallow  Muck Presence (A8) (LRR U)  Redox Depressions (F8)  Other (Explain Interval (A9) (LRR P, T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Iron-Manganese Masses (F12) (LRR O, P, T)  Coast Prairie Redox (A16) (MLRA 150A)  Delta Ochric (F17) (MLRA 151)	A9) (LRR O) A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
Histic Epipedon (A2)  Thin Dark Surface (S9) (LRR S, T, U)  Loamy Mucky Mineral (F1) (LRR O)  Reduced Ve Hydrogen Sulfide (A4)  Loamy Gleyed Matrix (F2)  Piedmont Fle Stratified Layers (A5)  Depleted Matrix (F3)  Anomalous I  Organic Bodies (A6) (LRR P, T, U)  Redox Dark Surface (F6)  Red Parent I  S cm Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F7)  Wery Shallov  Muck Presence (A8) (LRR U)  Redox Depressions (F8)  Other (Explated Dark Surface (F1))  Cm Muck (A9) (LRR P, T)  Marl (F10) (LRR U)  Depleted Below Dark Surface (A11)  Depleted Ochric (F11) (MLRA 151)  Thick Dark Surface (A12)  Iron-Manganese Masses (F12) (LRR O, P, T)  Coast Prairie Redox (A16) (MLRA 150A)  Delta Ochric (F17) (MLRA 151)	A10) (LRR S) rtic (F18) (outside MLRA 150A,B)
Sandy Gleyed Matrix (S4)  Reduced Vertic (F18) (MLRA 150A, 150B)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)	podplain Soils (F19) (LRR P, S, T)  Bright Loamy Soils (F20) (MLRA 153B)  Material (TF2)  Dark Surface (TF12)  In in Remarks)  Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Strictive Layer (If observed):  Type: gravel Hydric Soil Present  Depth (inches): 4	? Yes O No •

City/County: San Patricio

Sampling Date:

2/6/2019

Applicant/Owner: Phillips 66 Pipeline, LLC	State:	TX Sampl	ing Point:	UPP1036
Investigator(s): B. Bringhurst & A. Ostrowski	Section	, Township, Range: S	N/A T N/A	R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, c	convex, none): Concave		<b>Slope:</b> 1 % 0.6
Subregion (LRR): LRR T	 <b>Lat:</b> 27.933086	Long: -97.268		Datum: NAD 83
Soil Map Unit Name: Calallen sandy clay loam, 0 to 1 percent slopes	(Os)	NWI Classification:	None	
		-		
Are climatic/hydrologic conditions on the site typical for this tin	•		n in Remarks.)	
	significantly disturbed?	Are "Normal Circumst	•	Yes ● No ○
Are Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain an	y answers in Rer	marks.)
SUMMARY OF FINDINGS — Attach site map showing sar	npling point locations, tra	nsects, important fe	eatures, etc.	
Hydrophytic Vegetation Present? Yes No	<u> </u>	<u> </u>	•	
Hydric Soil Present? Yes No	ls the S	Sampled Area	Yes C	No •
Wetland Hydrology Present?	within a	a Wetland?		
The state of the s				
Remarks: Hydrophytic vegetation and hydric soil are not present. This is not a w	etland.			
,				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (Minimum of one required; check all that a	annly)	Secondary Indic	ators (Minimum	of 2 required)
			•	
	una (B13)		Vegetated Concave	Surface (B8)
	sits (B15) (LRR U) Sulfide Odor (C1)		Patterns (B10)	
	thizospheres along Living Roots ((		n Lines (B16) on Water Table (C2	)
	of Reduced Iron (C4)		Burrows (C8)	)
	on Reduction in Tilled Soils (C6)		n Visible on Aerial I	magery (C9)
	Surface (C7)		hic Position (D2)	magery (C3)
	plain in Remarks)		quitard (D3)	
Inundation Visible on Aerial Imagery (B7)	idan in Kemarks)		ral Test (D5)	
Water-Stained Leaves (B9)			n moss (D8) (LRR ]	т ш
` `		эрпадпаг	11 111033 (DO) (ERR	., 0)
Field Observations:				
	(inches):1			
•	(inches):			0 0
Saturation Present? (includes capillary fringe) Yes No Depth	(inches): 0	Wetland Hydrolo	gy Present? Ye	s • No O
Describe Recorded Data (stream gauge, monitor well, aerial photos, p	previous inspections) if available:			
Describe Recorded Data (Stream gauge, monitor well, aeriai photos, p	revious irispections), ii available.			
Remarks:				

**Project/Site:** Bluewater Terminal SPM Project

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

20% of Total Cover: 20

20% of Total Cover: 0

(Plot Size : 30 )

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum 1.\_\_\_\_

**Herb Stratum** 

50% of Total Cover: 0

1 . Cvnodon dactvlon

3 . Cvperus virens

4 . Sesbania exaltata

50% of Total Cover: 50

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_\_

2 . Eleocharis montevidensis

5 . Marsilea vestita

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0\_

0 \_

0

0 0

0 0

0

0

0

0

0

0

0

0

0

0

3

2

0

0

0 0

0

0

0 0

0

0

0

100

Rel.Strat. Indicator

0.0%\_

0.0%

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0%

0.0%

20.0% FACW

5.0% FACW

3.0% FACW

2.0% OBL

0.0%

0.0%\_ 0.0%

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%\_

0.0%

0.0%\_ 0.0%

0.0%

= Total Cover

Present ?

= Total Cover

0.0% = Total Cover

0.0%

0.0%

0.0%

Status

Samplin	g Point: (	JPP10	)3b		
Dominance Test we	orksheet:				
Number of Dominant That are OBL, FACW,			_	0	(A)
Total Number of Dom Species Across All Str			_	4	(В
Percent of Dominant That are OBL, FACW,			_	0.0%	(A/B)
Prevalence Index v	worksheet:				
Total % Cover	of:	Multi	oly t	y:	_
OBL species	2	x 1	=	2	
FACW species	28	x 2	=	56_	
FAC species	0	x 3	=	0	
FACU species	70	x 4	=	280	
UPL species	0	x 5	=	0	
Colum Totals:	113	(A)		490	(B)
Prevalence Inc	dex = B/A=			4.336	
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic H	Test is > 5 Index is ≤	0% 3.0¹			n)
2 - Dominance 3 - Prevalence	Test is > 5 Index is ≤ ydrophytic v dric soil and	0% 3.0¹ Vegeta	atio	n¹ (Explai	n)
2 - Dominance 3 - Prevalence Problematic H	Test is > 5 Index is ≤ ydrophytic v dric soil and e present, t	0% 3.0¹ Vegeta d wetl	atio and dis	n¹ (Explai	n)
2 - Dominance 3 - Prevalence Problematic H  1 Indicators of hy hydrology must b	e Test is > 5 Index is ≤ sydrophytic vertice soil and e present, cegetation nts, excludift (6 m) or i	0% 3.0¹ Vegeta d wetl unless Strat ing wo	atio	n¹ (Explai  turbed or  / vines, eight and	3 in.
2 - Dominance 3 - Prevalence Problematic Homology must b  Definition of Very Tree - Woody pla approximately 20	e Test is > 5 Index is ≤ ydrophytic v  dric soil and e present, t  egetation  nts, excludi ft (6 m) or in diamete  plants, excl ft (6 m) or	0% 3.0¹ Vegeta d wetl inless Strat ing wo more r at br uding	and disconding the di	n¹ (Explai I turbed or / vines, eight and st height (I ody vines,	3 in. DBH).
2 - Dominance 3 - Prevalence Problematic Homology must b  1 Indicators of hy hydrology must b  Definition of Very Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20	e Test is > 5 Index is ≤ ydrophytic variety soil and e present, under the present, under the plants, excluding the first term of the plants, excluding the plants, excluding the first term of the plants, excluding the plants of the pl	00% 3.01 Vegeta d wetl unless Strat ing wo more r at br uding more	and distance	n¹ (Explai turbed or / vines, eight and st height (I ody vines, eight and	3 in. DBH). less
2 - Dominance 3 - Prevalence Problematic Homology must b  1 Indicators of hy hydrology must b  Definition of Very Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - Woody approximately 20 than 3 in. (7.6 cm)	eTest is > 5 Index is ≤ ydrophytic variety soil and e present, to egetation nts, excludift (6 m) or in diamete plants, excludift (6 m) or in diamete variety of the months	00% 3.01 Vegeta d wetl unless Strat ing wo more r at br uding more ss, exc nan 3.	artio dis- a: podyin heeas wo in h	n¹ (Explai I turbed or / vines, eight and st height (I ody vines, eight and ing vines, ft (1m) tall	3 in. DBH). less
2 - Dominance 3 - Prevalence Problematic Hr  1 Indicators of hy hydrology must b  Definition of Ve Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm)  Sapling/Shrub - W than 3 in. DBH and	eTest is > 5 Index is ≤ sydrophytic variety of the present, to the present, to the present, to the present of t	0% 3.0¹ Vegeta d wetl unless Strat ing wo more r at br uding more ss, exc an 3. ding w 6 m) voody s of si	atio dis a: coody in h ceas wo in h	n¹ (Explai I turbed or / vines, eight and st height (I ody vines, eight and ing vines, ft (1m) tall dy vines, eight.	3 in. DBH). less less

Remarks: (If observed, list morphological adaptations below)
--

Profile Description	n: (Describe to th	ne depth i	needed to docui	nent the	indicator or	confirm the abso	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
<sup>†</sup> Type: C=Concentratio	on, D=Depletion, RM=	-Reduced M	latrix, CS=Covered (	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	tic Hydric Soils³:
5 cm Mucky Min  Muck Presence ( 1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Ma  Sandy Redox (St  Stripped Matrix (	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	ace (F6) urface (F7) urs (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Ren  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,					H	lydric Soil Present? Ye	s No •
Remarks:								

Project/Site: Bluewater Ter	minal SPM F	Project		City/County: San Patr	ricio	Sampling Date:	2/6/2019
Applicant/Owner: Phillips	66 Pipeline,	LLC		State	e: TX	Sampling Point:	UPP1037
Investigator(s): B. Bringhu	ırst & A. Ost	trowski		Section	on, Township, R	ange: S N/A T N/A	R N/A
Landform (hillslope, terrace	, etc.): F	lat		Local relief (concave	, convex, none)	: Concave	<b>Slope:</b> 1 % 0.6 °
Subregion (LRR): LRR T	_			<b>Lat:</b> 27.930903		ıg: -97.268225	Datum: NAD 83
Soil Map Unit Name: Papak	nto fino cano	ly loam (	) to 1 percent clopes (PaA)			sification: None	
				_	_		
Are climatic/hydrologic con	ditions on	the site	typical for this time of	year? Yes 💿	No (If r	no, explain in Remarks.)	
Are Vegetation, S	Soil	, or Hyd	rology signi	ficantly disturbed?	Are "Normal	Circumstances" present?	Yes   No
Are Vegetation , S	Soil	, or Hyd	rology natu	rally problematic?	(If needed, e	explain any answers in Re	marks.)
SUMMARY OF FINDINGS	5 – Attacł	ı site m	ap showing samplin	ng point locations, t	ransects, imp	ortant features, etc.	
Hydrophytic Vegetation Prese	ent?		Yes O No •	lo the	e Sampled Area	_	
Hydric Soil Present?			Yes O No 💿		n a Wetland?	Yes (	No 💿
Wetland Hydrology Present?			Yes   No				
Hydric soil is not present. Thi  HYDROLOGY	s is not a we	etland.					
Wetland Hydrology Indica	ators:						
Primary Indicators (Minim		e require	d: check all that apply	)	Secono	dary Indicators (Minimum	of 2 required)
✓ Surface Water (A1)			Aquatic Fauna (			Sparsely Vegetated Concave	• •
High Water Table (A2)			Marl Deposits (E	•		Drainage Patterns (B10)	; Surface (DO)
✓ Saturation (A3)			Hydrogen Sulfid			Moss Trim Lines (B16)	
Water Marks (B1)				pheres along Living Roots	(C3)	Dry Season Water Table (C2	2)
Sediment Deposits (B2)			Presence of Red			Crayfish Burrows (C8)	7
Drift Deposits (B3)			Recent Iron Rec	luction in Tilled Soils (C6)		Saturation Visible on Aerial I	Imagery (C9)
Algal Mat or Crust (B4)			Thin Muck Surfa	ice (C7)		Geomorphic Position (D2)	
Iron Deposits (B5)			Other (Explain in	n Remarks)		Shallow Aquitard (D3)	
Inundation Visible on Ae	rial Imagery	(B7)		•	<b>✓</b>	FAC-Neutral Test (D5)	
Water-Stained Leaves (B	9)					Sphagnum moss (D8) (LRR	T, U)
Field Observations:							
Surface Water Present?	Yes	No	Depth (inche	es): 1			
Water Table Present?	Yes 🔘	No (	_				
Saturation Present? (includes capillary fringe)	Yes •	No (	Depth (inche		Wetland	d Hydrology Present? Ye	es • No O
Describe Recorded Data (str	eam gauge,	monitor	well, aerial photos, previou	us inspections), if available	e:		
Remarks:							

			Dominant	Dominance Test worksheet:
		Absolute	Species?	Number of Dominant Species
		% Cover	Rel.Strat. Status	That are OBL, FACW, ro FAC:  1 (A)
Tree Stratum	(Plot Size : <u>30</u> )		Cover	(A)
1		0	0.0%	Total Number of Dominant
2			0.0%	Species Across All Strata: 2 (B
3			0.0%	Percent of Dominant Species
4			0.0%	That are OBL, FACW, or FAC: 50.0% (A/B)
5			0.0%	Dunyalawaa Turday waylishaati
6		0	0.0%	Prevalence Index worksheet:
			0.0%	Total % Cover of: Multiply by:
7 8		0	0.0%	OBL species $5 \times 1 = 5$
	f Total Cover: 0	0		FACW species $60 \times 2 = 120$
50 % of Total Cover. 0 20 % o	- Total Cover. 0		= Total Cover	FAC species $35 \times 3 = 105$
Sapling or Sapling/Shrub Stratun	<b>n</b> (Plot Size : <u>30</u> )	Г		FACU species $0 \times 4 = 0$
1		0	0.0%	UPL species $0 \times 5 = 0$
2		0	0.0%_	Colum Totals: 100 (A) 338 (B)
3		0	0.0%_	Prevalence Index = B/A= 3.380
4		0	0.0%_	
5		0	0.0%_	Hydrophytic Vegetation Indicators:
6		0	0.0%_	1 - Rapid Test for Hydrophytic Vegetation
7		0	0.0%_	2 - Dominance Test is > 50%
8		0	0.0%_	3 - Prevalence Index is ≤ 3.01
50% of Total Cover: 0 20% o	f Total Cover: 0	0	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Shrub Stratum	(Plot Size : 30 )			
1	· ,	0	0.0%	<sup>1</sup> Indicators of hydric soil and wetland
2.		0	0.0%	hydrology must be present, unless disturbed or
3.		0	0.0%	
4.			0.0%	Definition of Vegetation Strata:
5.		0	0.0%	Tree - Woody plants, excluding woody vines,
6		0	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
	of Total Cover: 0	0	= Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).
_	_		_ 10tai 0010i	
Herb Stratum	(Plot Size : <u>30</u> )	25	<b>2</b> 35.00/ 54.0	Sapling - Woody plants, excluding woody vines,
2 01 11 1		35		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		35_ · 20_ ·		than 6 m. (7.6 cm) bbn.
3 Eleocharis montevidensis				Sapling/Shrub - Woody plants, excluding vines, less
		5	5.0%FACW	than 3 in. DBH and greater than 3.28 ft (1m) tall.
5 . Eleocharis minima		5		
6		0		Shrub - Woody plants, excluding woody vines,
7		0		approximately 3 to 20 ft (1 to 6 m) in height.
8		0	0.0%	Hall Alle Land Value Land Carl Park
9		0	0.0%	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
10		0	0.0%_	plants, except woody vines, less than approximately
11		0	0.0%	3 ft (1 m) in height.
12		0	0.0%	
50% of Total Cover: 50 20% o	f Total Cover: 20	100	= Total Cover	Woody vine - All woody vines, regardless of height.
Woody Vine Stratum	(Plot Size : <u>30</u> )			
1		0	0.0%	
2.		0	0.0%	
3.		0	0.0%	Hydrophytic
4		0	0.0%	Vegetation Yes No •
5.		0	0.0%	Present ?
	f Total Cover: 0	0	= Total Cover	
Remarks: (If observed, list morphologic	al adaptations below).			

Sampling Point:

UPP1037

Profile Description	n: (Describe to th	ne depth i	needed to docui	nent the	indicator or	confirm the abso	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
<sup>†</sup> Type: C=Concentratio	on, D=Depletion, RM=	-Reduced M	latrix, CS=Covered (	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	tic Hydric Soils³:
5 cm Mucky Min  Muck Presence ( 1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Ma  Sandy Redox (St  Stripped Matrix (	e (A4) (A5) A6) (LRR P, T, U) eral (A7) (LRR P, T, A8) (LRR U) (LRR P, T) Dark Surface (A11) ce (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix ( Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( Su	ace (F6) urface (F7) urs (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, 7 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Ren  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	,					H	lydric Soil Present? Ye	s No •
Remarks:								

Project/Site: Bluewater Terminal SPM Project	City/County: San Patrio	Sampling Date:	2/6/2019
Applicant/Owner: Phillips 66 Pipeline, LLC	State:	TX Sampling Point:	UPP1038
Investigator(s): B. Bringhurst & A. Ostrowski	Section	n, Township, Range: S N/A T N/A	A R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave,	convex, none): Flat	Slope: 1 % 0.6 °
Subregion (LRR): LRR T	 <b>Lat:</b> 27.93097	<b>Long:</b> -97.266017	Datum: NAD 83
Soil Map Unit Name: Raymondville clay loam, 0 to 1 percent	slopes (RaA)	NWI Classification: PUBFx	
Are climatic/hydrologic conditions on the site typical for	this time of year? Yes 🌘 I	No (If no, explain in Remarks.)	
Are Vegetation , Soil , or Hydrology	significantly disturbed?	Are "Normal Circumstances" present?	? Yes ● No ○
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If needed, explain any answers in Re	
SUMMARY OF FINDINGS — Attach site map showi			•
Hydrophytic Vegetation Present? Yes •	No O	Complet Area	
Hydric Soil Present? Yes		Sampled Area a Wetland?	○ No ●
Wetland Hydrology Present? Yes	No •		
HYDROLOGY			
Wetland Hydrology Indicators:	U		60
Primary Indicators (Minimum of one required; check a		Secondary Indicators (Minimum	. ,
	juatic Fauna (B13)	Sparsely Vegetated Concav	e Surface (B8)
	arl Deposits (B15) (LRR U) ødrogen Sulfide Odor (C1)	Drainage Patterns (B10)  Moss Trim Lines (B16)	
	kidized Rhizospheres along Living Roots (		:2)
	esence of Reduced Iron (C4)	Crayfish Burrows (C8)	<b>-</b> /
Drift Deposits (B3)	cent Iron Reduction in Tilled Soils (C6)	Saturation Visible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)	in Muck Surface (C7)	Geomorphic Position (D2)	
	her (Explain in Remarks)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR	.T, U)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
Saturation Present? (includes capillary fringe)  Yes  No  No	Depth (inches):	Wetland Hydrology Present? Y	res ○ No ●
Describe Recorded Data (stream gauge, monitor well, aerial p	hotos, previous inspections), if available		

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : <u>30</u> )

20% of Total Cover: 0

20% of Total Cover: 11

(Plot Size : 30 )

(Plot Size : <u>30</u> )

Tree Stratum

50% of Total Cover: 0

Shrub Stratum

1.\_\_\_\_

**Herb Stratum** 

50% of Total Cover: 0

1 . Amaranthus retroflexus

2 . Sorahum halepense

3 . Cvnodon dactvlon

4 . Rumex crispus

5 . Taraxacum officinale

50% of Total Cover: 28

**Woody Vine Stratum** 

1.\_\_\_

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0

0

0 \_

0

0 0

0

0

0

0

0

0

0

0 0

0

5

0 0

0

0

0

0

0 0 Rel.Strat. Indicator

0.0%

0.0%

0.0%\_ 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%

0.0%

0.0%\_ 0.0%

0.0% 0.0%\_

\_\_\_0.0%\_ 0.0%

= Total Cover

0.0% 0.0% 0.0%\_

0.0%

0.0%

= Total Cover

20 **✓** \_\_36.4% FAC

10 **✓** \_\_18.2% \_FACU

10 ✓ 18.2% FAC

10 **✓** 18.2% FACU

9.1%\_\_FACU 0.0% 0.0%\_ 0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%

0.0%

0.0%\_ 0.0%

= Total Cover

0.0%

0.0%

Status

Sampling Point: UPP1038
Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, ro FAC:3(A)
Total Number of Dominant Species Across All Strata:3 (B
Percent of Dominant Species That are OBL, FACW, or FAC: 100.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species $0 \times 1 = 0$
FACW species $0 \times 2 = 0$
FAC species $30 \times 3 = 90$
FACU species $25 \times 4 = 100$
UPL species $0 \times 5 = 0$
Colum Totals: 55 (A) 190 (B)
Prevalence Index = B/A= 3.455
Hydrophytic Vegetation Indicators:
3 - Prevalence Index is ≤ 3.0¹  Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or
Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.
Woody vine - All woody vines, regardless of height.
Hydrophytic Vegetation Yes • No O Present ?

5	0	Present ?
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	
Remarks: (If observed, list morphological adaptations below).		
*Indicator suffix = National status or professional decision assigned becaus	e Regional status not defined by FWS.	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	<u>%</u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 4/1	100					Silty Clay	
¹Type: C=Concentrati	on, D=Depletion, RM=	Reduced M	atrix, CS=Covered (	or Coated :	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
Hydric Soil Indica	tors:						Indicators for Problema	tic Hydric Soils³:
5 cm Mucky Min  Muck Presence (  1 cm Muck (A9)  Depleted Below  Thick Dark Surfa  Coast Prairie Rec  Sandy Muck Min  Sandy Gleyed Matrix (Stripped Matrix (Str	e (A4) (A5) (A6) (LRR P, T, U) eral (A7) (LRR P, T, (A8) (LRR U) (LRR P, T) Dark Surface (A11) ace (A12) dox (A16) (MLRA 15 eral (S1) (LRR O, S) atrix (S4)	0A)	Thin Da Loamy Loamy Deplete Redox Deplete Redox Marl (F Deplete Iron-Ma Umbric Delta C Reduce Piedmo	ark Surface Mucky Mi Gleyed M ed Matrix of Dark Surface Depression 10) (LRR ed Ochric anganese Surface ( S	(F3) ace (F6) urface (F7) ns (F8) U) (F11) (MLRA 1 Masses (F12) F13) (LRR P, T 7) (MLRA 151) F18) (MLRA 15	T, U) R O) 51) (LRR O, P, T) T, U)	Piedmont Floodplain S Anomalous Bright Loa Red Parent Material ( Very Shallow Dark Su Other (Explain in Rem  3Indicators wetland unless	R S) (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) my Soils (F20) (MLRA 153B) TF2) rface (TF12)
Restrictive Layer ( Type: Depth (inches):	. ,					H	lydric Soil Present? Ye	s No •
Remarks:								

Project/Site: Bluewater Termi	nal SPM Project	City/County: San Patricio	Sampling Date:	2/6/2019
Applicant/Owner: Phillips 66	Pipeline, LLC	State: TX	Sampling Point:	UPP1039
Investigator(s): B. Bringhurst	t & A. Ostrowski	Section, Township, R	ange: S N/A T N/A	R N/A
Landform (hillslope, terrace, e	tc.): Flat	Local relief (concave, convex, none)		Slope: 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.931288 <b>Lo</b> n	<b>ng:</b> -97.265593	Datum: NAD 83
Soil Map Unit Name: Banquete	a clay 0 to 1 percent slopes (Ec)		sification: None	
Are climatic/hydrologic condit	ions on the site typical for this time o	fyear? Yes $ullet$ No $igcup$ (If r	no, explain in Remarks.)	
Are Vegetation 🗸 , Soi	l ✓ , or Hydrology	nificantly disturbed? Are "Normal	Circumstances" present?	Yes • No 🔾
Are Vegetation , Soi	, or Hydrology nate	urally problematic? (If needed, e	explain any answers in Re	marks.)
SUMMARY OF FINDINGS -	- Attach site map showing sampli	ing point locations, transects, imp	ortant features, etc.	
Hydrophytic Vegetation Present	? Yes O No •			
Hydric Soil Present?	Yes No •	Is the Sampled Area within a Wetland?	Yes C	No •
Wetland Hydrology Present?	Yes No •	within a Wetland:		
Remarks: Hydrophytic vegetation, hydric s  HYDROLOGY	oil, and wetland hydrology are not present	. This is not a wetland.		
Wetland Hydrology Indicato	re:			
	n of one required; check all that apply	v) Second	dary Indicators (Minimum	of 2 required)
Surface Water (A1)	Aquatic Fauna	<del></del>	Sparsely Vegetated Concave	• •
High Water Table (A2)	Marl Deposits	_	Drainage Patterns (B10)	e Surface (Bo)
Saturation (A3)	Hydrogen Sulfi		Moss Trim Lines (B16)	
Water Marks (B1)		pspheres along Living Roots (C3)	Dry Season Water Table (C2	<b>)</b> )
Sediment Deposits (B2)		educed Iron (C4)	Crayfish Burrows (C8)	-)
Drift Deposits (B3)		eduction in Tilled Soils (C6)	Saturation Visible on Aerial 1	Imagery (C9)
Algal Mat or Crust (B4)	Thin Muck Sur		Geomorphic Position (D2)	
Iron Deposits (B5)	Other (Explain		Shallow Aquitard (D3)	
Inundation Visible on Aeria			FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)			Sphagnum moss (D8) (LRR	T, U)
Field Observations:				
	∕es ○ No ● Depth (incl	hes):		
Water Table Present?	'es No Depth (incl	· ——		
Saturation Present?		Wotlon	d Hydrology Present? Ye	es O No 💿
(includes capillary fringe)	'es ○ No • Depth (inc	nies).		
Describe Recorded Data (stream	n gauge, monitor well, aerial photos, previ	ous inspections), if available:		

	Absolute Species? Rel.Strat. Indicator Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:
e Stratum (Plot Size : 30 )		
		Total Number of Dominant Species Across All Strata: 4 (B
		Percent of Dominant Species That are OBL_FACW_or_FAC: 50.0% (A)
	0	That are OBL, FACW, or FAC: 50.0% (A)
	0	Prevalence Index worksheet:
	0	Total % Cover of: Multiply by:
	0	OBL species $0 \times 1 = 0$
	0	FACW species $0 \times 2 = 0$
0% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	FAC species $5 \times 3 = 15$
ing or Sapling/Shrub Stratum (Plot Size : 30 )	<del></del>	FACU species $5 \times 4 = 20$
( *** ** == /	0.0%	UPL species $20 \times 5 = 100$
		Colum Totals: 55 (A) 190 (E
		Prevalence Index = B/A= 3.455
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is > 50%
		3 - Prevalence Index is ≤ 3.0¹
0% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<b>b Stratum</b> (Plot Size : <u>30</u> )		
		1 Indicators of hydric soil and wetland
		hydrology must be present, unless disturbed or
		Definition of Vegetation Strata:
		Tree - Woody plants, excluding woody vines,
	0	approximately 20 ft (6 m) or more in height and 3 in
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover	(7.6 cm) or larger in diameter at breast height (DBH)
Stratum (Plot Size : 30)	_	Sapling - Woody plants, excluding woody vines,
_Nama hispidum	15 🗹50.0%UPL	approximately 20 ft (6 m) or more in height and less
_Amaranthus retroflexus	5 <u>16.7%</u> FAC	than 3 in. (7.6 cm) DBH.
_Taraxacum officinale	5 <u>16.7%</u> _FACU	
_ Medicago lupulina	5 <u>16.7%</u> UPL	Sapling/Shrub - Woody plants, excluding vines, less
		than 3 in. DBH and greater than 3.28 ft (1m) tall.
		Shrub - Woody plants, excluding woody vines,
		approximately 3 to 20 ft (1 to 6 m) in height.
		Herb - All herbaceous (non-woody) plants, including
		herbaceous vines, regardless of size, and woody
		plants, except woody vines, less than approximately
		3 ft (1 m) in height.
0% of Total Cover: 15 20% of Total Cover: 6	30 = Total Cover	NA/
	— I Otal Covel	Woody vine - All woody vines, regardless of height.
dy Vine Stratum (Plot Size : 30)	0 000	
		Hydrophytic
	0	Vegetation Yes No ● Present ?
	0	Tresent :
50% of Total Cover: 0 20% of Total Cover: 0		Tresent.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u> </u>	Color (moist)	<u></u>	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
¹Type: C=Concentratio  Hydric Soil Indicat  Histosol (A1)	tors:	Reduced M	Polyval	ue Below	Surface (S8) (I		Lining, M=Matrix.  Indicators for Problema  1 cm Muck (A9) (LRR	-
Histic Epipedon (	(A2)				e (S9) (LRR S,		2 cm Muck (A10) (LR	RS)
Black Histic (A3)	(04)				neral (F1) (LRF	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
<ul><li>Hydrogen Sulfide</li><li>Stratified Layers</li></ul>	• •			Gleyed M				Soils (F19) (LRR P, S, T)
	(A3) A6) (LRR P, T, U)			ed Matrix ( Dark Surfa				my Soils (F20) (MLRA 153B)
	eral (A7) (LRR P, T,	U)			ırface (F7)		Red Parent Material (	•
Muck Presence (		-,		Depressio	, ,		Very Shallow Dark Su	
1 cm Muck (A9)				10) (LRR	. ,		Other (Explain in Rem	aarks)
Depleted Below I	Dark Surface (A11)				(F11) (MLRA 1	.51)		
Thick Dark Surfa	ce (A12)				Masses (F12)	•		
Coast Prairie Rec	lox (A16) (MLRA 15	0A)			F13) (LRR P, T			
Sandy Muck Mine	eral (S1) (LRR O, S)				') (MLRA 151)			of hydrophytic vegetation and
Sandy Gleyed Ma	atrix (S4)				=18) (MLRA 15			nydrology must be present, disturbed or problematic.
Sandy Redox (S5	5)					) (MLRA 149A)		·
Stripped Matrix (	S6)					(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	) (LRR P, S, T, U)			_	•	. , ,	,	
Restrictive Layer ( Type: Depth (inches):	•					— Н	lydric Soil Present? Ye	s No •
Remarks: ag field								

Picking   Pick
Indform (hillslope, terrace, etc.): Flat
bregion (LRR): LRR T  Lat: 27.931337  Long: -97.256641  Datum: NAD 83  Il Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)  NWI Classification: None  et 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 disturbed? Are "Normal Circumstances" present? Yes No (If needed, explain any answers in Remarks.)  IMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrol
Il Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)  RWI Classification: None  e 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 disturbed? Are "Normal Circumstances" present? Yes No No (If needed, explain any answers in Remarks.)  IMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No No No Wetland Hydrology Present? Yes No
Il Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)  RWI Classification: None  e climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)  Are Vegetation S, Soil S, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No (If needed, explain any answers in Remarks.)  IMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present. This is not a wetland.
e climatic/hydrologic conditions on the site typical for this time of year?  Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)  IMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No No No Wetland Hydrology Present? Yes No
Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)    MMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.    Hydrophytic Vegetation Present?
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area within a Wetland?  Netland Hydrology Present?  Yes No Wetland Hydrology Present?  No Wetland Hydrology Present?  No Wetland Hydrophytic vegetation and hydric soil are not present. This is not a wetland.
Hydrophytic Vegetation Present?  Yes No Is the Sampled Area within a Wetland?  Netland Hydrology Present?  Yes No Wetland Hydrology Present?  Netland Hydrophytic vegetation and hydric soil are not present. This is not a wetland.
Alydric Soil Present?  Wetland Hydrology Present?  Yes No Wetland?  No within a Wetland?  No wetland?  No wetland?  No wetland?  No wetland?
Alydric Soil Present?  Wetland Hydrology Present?  Yes No Wetland?  No within a Wetland?  No wetland?  No wetland?  No wetland?  No wetland?
Wetland Hydrology Present?  Yes No No Remarks: Hydrophytic vegetation and hydric soil are not present. This is not a wetland.
Remarks: Hydrophytic vegetation and hydric soil are not present. This is not a wetland.
Hydrophytic vegetation and hydric soil are not present. This is not a wetland.
YDROLOGY
YDROLOGY
Wetland Hydrology Indicators:
Primary Indicators (Minimum of one required; check all that apply)  Secondary Indicators (Minimum of 2 required)
Surface Water (A1)  Aquatic Fauna (B13)  Sparsely Vegetated Concave Surface (B8)
✓ High Water Table (A2)  Marl Deposits (B15) (LRR U)  Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)
Water Marks (B1)  Oxidized Rhizospheres along Living Roots (C3)  Dry Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)
Drift Deposits (B3)  Recent Iron Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)
Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)
Water-Stained Leaves (B9)  Sphagnum moss (D8) (LRR T, U)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches): 2
Saturation Present? Ves No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:
Remarks:

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : <u>30</u> )

(Plot Size : 30 )

20% of Total Cover: 3.2

(Plot Size : 30 )

20% of Total Cover: 0

Tree Stratum

50% of Total Cover: 0

Shrub Stratum

**Herb Stratum** 

1.\_\_\_\_\_

50% of Total Cover: 0

3 . Taraxacum officinale

50% of Total Cover: 8

Woody Vine Stratum

1.\_\_\_\_\_

1 . Nama hispidum 2 . Medicago lupulina

4 . Rumex crispus

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

5 . Parthenium hysterophorus

6 . Oenothera speciosa

Dominant Species?

Cover

Absolute % Cover

0

0

0

0

0

0

0

0

0

0

0 0

0

0 0

0

0

0 \_\_\_\_

0

0 \_\_\_\_\_

0 🔲 \_

Rel.Strat. Indicator

0.0%

0.0%

0.0%

0.0% 0.0%

0.0%

0.0% 0.0%

= Total Cover

0.0%

0.0% 0.0%

0.0% 0.0%\_

\_\_\_0.0%\_

= Total Cover

0.0%

0.0%

0.0% 0.0% 0.0%\_

0.0%

0.0%\_

= Total Cover

5 ✓ \_\_\_31.3% \_UPL

3 🗸 \_\_\_18.8% \_\_UPL \_\_\_12.5%\_\_FACU\_\_

\_\_\_12.5%\_\_FAC

\_\_\_12.5%\_\_FAC

\_\_\_12.5%\_\_UPL 0.0%\_ 0.0%\_

0.0%

0.0% 0.0%

0.0%\_

0.0%\_

0.0%\_

= Total Cover

0.0%

0.0%

Status

Sampling			40	
Dominance Test wo				
Number of Dominant That are OBL, FACW,	•		0	
,				(A)
Total Number of Dom			1	/D
Species Across All Str	ata:			(B
Percent of Dominant : That are OBL, FACW,			0.0%	(A/B)
Prevalence Index v				
Total % Cover of		Multip	ly by:	
OBL species	0	x 1	^	_
FACW species	0	x 2	=0	
FAC species	4	x 3	= 12	
FACU species	2	x 4	=8_	
UPL species	10_	x 5	= 50	
Colum Totals:	30	(A)	135	(B)
Prevalence Inc	dex = B/A=		4.500	
Hydrophytic Veget	ation Indic	ators:		
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy	Test is > 5 Index is ≤ ydrophytic	0% 3.0¹ Vegeta	tion¹ (Explai	n)
1 - Rapid Test 2 - Dominance 3 - Prevalence	Test is > 5 Index is ≤ ydrophytic dric soil an	0% 3.0¹ Vegeta	tion¹ (Explai	n)
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy	Test is > 5 Index is ≤ ydrophytic dric soil an e present, u	0% 3.0¹ Vegeta d wetla	tion¹ (Explai and disturbed or	n)
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy  1 Indicators of hy hydrology must b	Test is > 5 Index is ≤ ydrophytic  dric soil an e present, the egetation nts, exclud ft (6 m) or	0% 3.0¹ Vegeta d wetlaunless of Strata	tion¹ (Explaind disturbed or l: ody vines, n height and	3 in.
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy  1 Indicators of hy hydrology must b  Definition of Ve Tree - Woody pla approximately 20	Test is > 5 Index is ≤ ydrophytic  dric soil an e present, the egetation nts, exclud ft (6 m) or in diamete plants, excl ft (6 m) or	0% 3.0¹ Vegeta d wetlaunless of Strata ing woo more in r at bre	tion¹ (Explaind disturbed or l: ody vines, n height and east height (I	3 in. OBH).
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy  1 Indicators of hy hydrology must b  Definition of Ve Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20	Test is > 5 Index is ≤ ydrophytic  dric soil an e present, the egetation ints, exclud ft (6 m) or in diamete plants, excludift (6 m) or in DBH.	0% 3.0¹ Vegeta d wetlaunless of Strata ing woo more in r at bre luding von more in	tion¹ (Explained disturbed or l: l: lody vines, height and least height (I woody vines height and luding vines, lu	3 in. DBH). less
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy  1 Indicators of hy hydrology must b  Definition of Ve Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm  Sapling/Shrub - W	Test is > 5 Index is ≤ ydrophytic  dric soil an e present, the egetation ints, excluding ft (6 m) or in diamete plants, excluding ft (6 m) or in diamete plants, excluding ft (6 m) or in diamete plants, excluding greater the diameter the end of the end	0% 3.0¹ Vegeta d wetlaunless of Strata ing woo more in r at bre luding ventors in ts, excluding ventors in an 3.2 ding wetlaunless of	tion¹ (Explained disturbed or l: cody vines, height and east height (I woody vines height and uding vines, the first (1m) tall toody vines, cody vines, the first (1m) tall toody vines, the first (1m) tall tall toody vines, the first (1m) tall tall tall tall tall tall tall tal	3 in. DBH). less
1 - Rapid Test 2 - Dominance 3 - Prevalence Problematic Hy  1 Indicators of hy hydrology must b  Definition of Ve Tree - Woody pla approximately 20 (7.6 cm) or larger  Sapling - Woody approximately 20 than 3 in. (7.6 cm  Sapling/Shrub - W than 3 in. DBH an	Test is > 5 Index is ≤ ydrophytic  dric soil an e present, the egetation of the present, the egetation of the plants, excluded ff (6 m) or in diameted plants, excluded ff (6 m) or in diameted plants, excluded ff (6 m) or in diameted plants, excluded plants, excluded from the plants of the plants	O% 3.0¹ Vegeta  d wetlaunless of Strata ing woo more in r at bre luding v more in as, excl han 3.2 ding wo 6 m) i voody) s of siz	tion¹ (Explained disturbed or a limit of the context of the contex	3 in. DBH). less less .

4	0.0%	Vegetation Present ?	Yes No •
50% of Total Cover: 0 20% of Total Cover: 0	0 = Total Cover		
Remarks: (If observed, list morphological adaptations below).			
*Indicator suffix = National status or professional decision assigned because	use Regional status not defined by FWS.		

Depth	Matrix	K		Redox	Features			
(inches)	Color (moist)		Color (moist)	%	Tvpe1	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
ype: C=Concentrat	tion, D=Depletion, Rf	√=Reduced	Matrix, CS=Covered	or Coated	d Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
dric Soil Indic	ators:						Indicators for Problemat	tic Hydric Soils³:
Histosol (A1)			Polyval	ue Belov	v Surface (S8) (	(LRR S, T, U)	1 cm Muck (A9) (LRR (	O)
Histic Epipedon	n (A2)				ice (S9) (LRR S		2 cm Muck (A10) (LRR	
Black Histic (A3	•		Loamy	Mucky N	Mineral (F1) (LR	R O)	Reduced Vertic (F18) (	•
Hydrogen Sulfic			Loamy	Gleyed I	Matrix (F2)		Piedmont Floodplain Se	oils (F19) (LRR P, S, T)
Stratified Layer	• ,		Depleto	ed Matrix	(F3)		Anomalous Bright Loar	my Soils (F20) (MLRA 153B)
-	(A6) (LRR P, T, U)				face (F6)		Red Parent Material (T	F2)
,	neral (A7) (LRR P,	1, 0)			Surface (F7)		Very Shallow Dark Sur	face (TF12)
Muck Presence				•	ions (F8)		Other (Explain in Rema	arks)
1 cm Muck (A9				10) (LRF				
	v Dark Surface (A11 face (A12)	1)			C (F11) (MLRA	•		
Thick Dark Surf		1504)			e Masses (F12)			
	edox (A16) (MLRA : neral (S1) (LRR O,	,			(F13) (LRR P,		³Indicators o	of hydrophytic vegetation and
Sandy Gleyed N		3)			17) (MLRA 151)		wetland h	ydrology must be present,
Sandy Redox (S					(F18) (MLRA 1		uniess c	listurbed or problematic.
Stripped Matrix						9) (MLRA 149A)	(F00 (F00)	
	. (30) 57) (LRR P, S, T, U)	١	Anoma	lous Brig	int Loamy Soils	(F20) (MLRA 149A	A, 153C, 153D)	
Dark Sarrace (S	5/) (LICCT, 5, 1, 0,	•						
strictive Layer	(If observed):							
Туре:						'	Hydric Soil Present? Yes	No •
Depth (inches):								
marks:								
field								

Project/Site: Bluewater Ter	rminal SPM Project	City/County: San Patricio	Sampling Date:	2/6/2019	
Applicant/Owner: Phillips	66 Pipeline, LLC	State: TX	Sampling Point:	UPP1041	
Investigator(s): B. Bringh	urst & A. Ostrowski	Section, Tow	vnship, Range: S N/A T N/A	R N/A	
Landform (hillslope, terrace	e, etc.): Flat	Local relief (concave, conve	ex, none): Flat	Slope: 0 % 0.0 °	
Subregion (LRR): LRR T		<b>Lat:</b> 27.930119	Long: -97.248539	Datum: NAD 83	
Soil Map Unit Name: Victor	ria clav. depressional (Vd)		WI Classification: None		
Are climatic/hydrologic conditions on the site typical for this time of year?  Yes  No (If no, explain in Remarks.)					
Are Vegetation 🗸 , S	Soil 🗸 , or Hydrology 🗌 sign	nificantly disturbed? Are	"Normal Circumstances" present?	Yes   No	
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Prese	ent? Yes No •	L. 11 O	alad Assa		
Hydric Soil Present?	Yes O No •		Is the Sampled Area within a Wetland?  Yes No ●		
Wetland Hydrology Present?	Yes   No				
Hydrophytic vegetation and h	hydric soil are not present. This is not a wetlar	nd.			
Wetland Hydrology Indica	ators:				
	num of one required: check all that appl	v)	Secondary Indicators (Minimum o	of 2 required)	
Surface Water (A1)	Aquatic Fauna	<del></del>	Sparsely Vegetated Concave	• •	
High Water Table (A2)		(B15) (LRR U)	Drainage Patterns (B10)	Surface (BO)	
✓ Saturation (A3)	Hydrogen Sulf		Moss Trim Lines (B16)		
Water Marks (B1)		ospheres along Living Roots (C3)	Dry Season Water Table (C2)	)	
Sediment Deposits (B2)	Presence of R	educed Iron (C4)	Crayfish Burrows (C8)		
Drift Deposits (B3)	Recent Iron R	eduction in Tilled Soils (C6)	Saturation Visible on Aerial I	magery (C9)	
Algal Mat or Crust (B4)	Thin Muck Sur	face (C7)	Geomorphic Position (D2)		
Iron Deposits (B5)	Other (Explain	n in Remarks)	Shallow Aquitard (D3)		
Inundation Visible on Ae	erial Imagery (B7)		FAC-Neutral Test (D5)		
Water-Stained Leaves (B	39)		Sphagnum moss (D8) (LRR T, U)		
Field Observations:					
Surface Water Present?	Yes No • Depth (inc	ches):			
Water Table Present?	Yes No Depth (inc	ches):			
Saturation Present? (includes capillary fringe)	Yes   No   Depth (inc		Wetland Hydrology Present? Yes	s • No O	
Describe Recorded Data (str	ream gauge, monitor well, aerial photos, previ	ious inspections), if available:			